SELF-ASSESSMENT REPORT ON THE QUALITY OF EDUCATION IN THE DOCTORAL SCHOOL

Szkoła Doktorska Politechniki Częstochowskiej

Politechnika Częstochowska

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PART A

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VISITING CARD

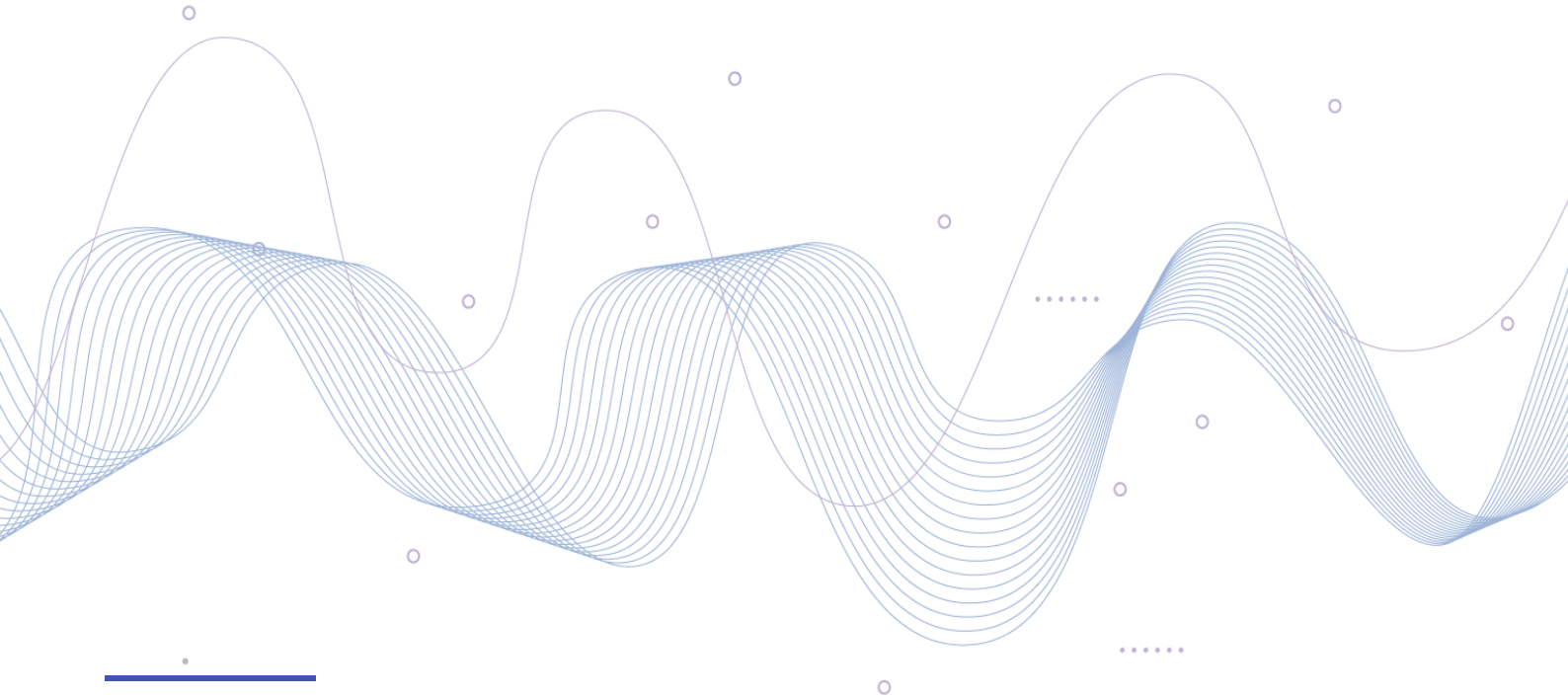
Basic Information about the Doctoral School

Year of Creation

2019

Institution running the doctoral school

Politechnika Częstochowska



Field of Education	Education Disciplines
Social sciences	management and quality studies
Engineering and technology	automation, electronics and electrical engineering information and communication technology materials engineering mechanical engineering environmental engineering, mining and energy automation, electronics, electrical engineering and space technologies

Name/Scope of the Education Program (PL)	Name/Scope of the Education Program (EN)
Zakres programu kształcenia obejmujący nauki społeczne A	The scope of the curriculum covering social sciences A
Zakres programu kształcenia obejmujący nauki inżynieryjno-techniczne A	The scope of the education program covering engineering and technical sciences A
Zakres programu kształcenia obejmujący nauki inżynieryjno-techniczne B	The scope of the education program covering engineering and technical sciences B
Zakres programu kształcenia obejmujący nauki społeczne B	The scope of the curriculum covering social sciences B

Characteristics of the Doctoral School

The CUT Doctoral School (SD) was established by Order No. 206/2019 of the CUT Rector on May 8, 2019. The SD's operating principles are defined by its Regulations, adopted by the Senate of the CUT. The school's mission is to educate doctoral students to enable them to acquire the specialized knowledge necessary to identify research problems and goals, formulate innovative hypotheses and research goals through the use of appropriate research techniques, and solve them. Education is provided in six scientific disciplines:
automation, electronics,
electrical engineering, and space technologies;
technical computer science and telecommunications;
materials engineering;
mechanical engineering;
environmental engineering, mining, and energy;
management and quality sciences.
Completing the curriculum in terms of knowledge, skills, and competencies at PQF level 8 guarantees graduates the ability to plan and implement individual, independent research projects while respecting ethical principles and intellectual property protection. The education lasts four years, and the program includes general education modules specific to a given scientific discipline, preparing the doctoral student to implement the IRP objectives, and professional internships. General education is a preparatory course that prepares students to acquire advanced knowledge, skills, and competencies in engineering, technology, and social sciences. The 210-hour course is delivered during semesters I-V and provides specialized knowledge in research methodology, statistical data processing, quantitative and qualitative methods of economic research, metrology, modern engineering materials used in technology, advanced engineering calculation methods, and contemporary organizational management concepts. Doctoral students have the opportunity to develop research methods, techniques, and tools and acquire the ability to apply them creatively. Seminar classes enable them to acquire the ability to initiate debate and participate in scientific discourse. Completing this module allows doctoral students to familiarize themselves with the main

directions of development in scientific disciplines and understand the importance of scientific knowledge in solving cognitive and practical problems, in order to disseminate and transfer it to the economic and social spheres. Proper education consists of classes preparing students to achieve advanced knowledge in a given scientific discipline, the ability to solve critical research problems, and the expansion of existing knowledge. Classes (60 hours) are conducted during semesters II-VI.
Completing this module provides specialized knowledge that allows for the revision of existing paradigms, encompassing theoretical foundations, general issues, and selected specific topics relevant to a given field of science. This knowledge allows the doctoral student to draw conclusions and critically analyze and evaluate research results, expert opinions, and other research-related work, as well as assess their contribution to the advancement of science. The course "Developing an IRP" is a course led by the Head of SD. During the course, the doctoral student learns about the statutory requirements for the IRP, and the course itself requires collaboration with the supervisor to develop a research schedule and other activities necessary to meet the statutory requirements. The remaining classes in this module are led by the supervisor/co-supervisor. The collaboration results in the application of knowledge to creatively and innovatively solve complex research problems or perform research-related tasks. The final outcome is the preparation of a doctoral dissertation. Classes (65 hours) are completed during semesters I-VIII.
Professional internships may be conducted by teaching or participating in classes, or in other forms determined by the Vice-Dean for Research or the head of the department, within the scientific discipline in which the doctoral student is studying. The internship period does not exceed 60 hours per academic year. Recruitment to SD is conducted by recruitment committees separately for each scientific discipline in which recruitment is conducted. Its goal is to select the best candidates based on a proposed research topic description, an interview, and an assessment of the candidates' previous research experience and achievements. Candidates submit a proposed research topic, which is evaluated by committees composed of: the head of SD, three representatives from the given scientific discipline holding at least a habilited doctor, a representative of the University Doctoral Student Council (URD , and the secretary.
The SD organizes the doctoral education process to facilitate research. The implementation of classes is outsourced to the faculties where academic teachers are employed. First-year doctoral students complete the curriculum on Mondays and Tuesdays, and doctoral students in higher years—on Tuesdays only. In semesters 4–8, only two subjects are offered, including seminars with the supervisor and the Vice-Dean for Research, aimed at verifying the implementation of the IRP objectives. This approach has resulted in a very high number of doctoral students who successfully pass the mid-term evaluation and complete their studies and begin the promotion process on schedule. Doctoral students exercise their statutory right to an extension of the deadline for submitting their doctoral dissertation and completing their studies. This extension is mostly due to delays in the publication process of articles that form the basis for applying for a doctoral degree, as well as health issues and unexpected events.
The mid-term evaluation is conducted at the beginning of the 5th semester by committees appointed by the SD head, consisting of: the vice-dean for research, an employee with a degree of at least PhD, and an external expert. Documentation confirming the achievement of the IRP objectives is submitted electronically to committee members in sufficient time to allow for review. At the committee meeting, the doctoral student presents their achievements resulting from the IRP implementation, and committee members ask questions about the presentation. During the closed session, a discussion and a vote are held on whether to award a positive or negative grade.
Cooperation between the SD and doctoral students is based on open communication and cooperation based on mutual respect. The SD administrative office is open to doctoral students from 10:00 a.m. to 1:00 p.m., and at other times by appointment via email or phone. This allows doctoral students to contact the SD administration and its director directly. All certificates for doctoral students are issued immediately or, at the latest, the next business day.(Edytowano)Przywróć oryginał

Additional Information about the Doctoral School

Educating Staff

Numerical data for the evaluation period

Educating Staff	Instructors	Supervisors	Assistant Supervisors
Number of people	70	96	52

Doctoral Students

Number of doctoral students (total): 132

Recruitment during the evaluation period	2019/ 2020	2020/ 2021	2021/ 2022	2022/ 2023	2023/ 2024	2024/ 2025	Total
Number of recruited doctoral students	35	21	14	15	23	25	133
Number of doctoral students who completed the doctoral school	23	9	1	0	0	0	33
Number of doctoral students removed from the doctoral student list	8	7	4	2	3	1	25

Mid-term evaluation results	Positive	Negative
Number of Doctoral Students	72	1

Educational Programs	Number of Doctoral Students
The scope of the curriculum covering social sciences A	12
The scope of the education program covering engineering and technical sciences A	23
The scope of the education program covering engineering and technical sciences B	75
The scope of the curriculum covering social sciences B	22

Additional Numerical Data on Doctoral Students

Number of foreign doctoral students	4
Number of doctoral students with disabilities	11
Number of doctoral students in the Implementation Doctorate program	5
Number of doctoral students in the EU program	0
Number of doctoral students employed by the institution running the doctoral school as academic teachers or research staff	11

Graduates

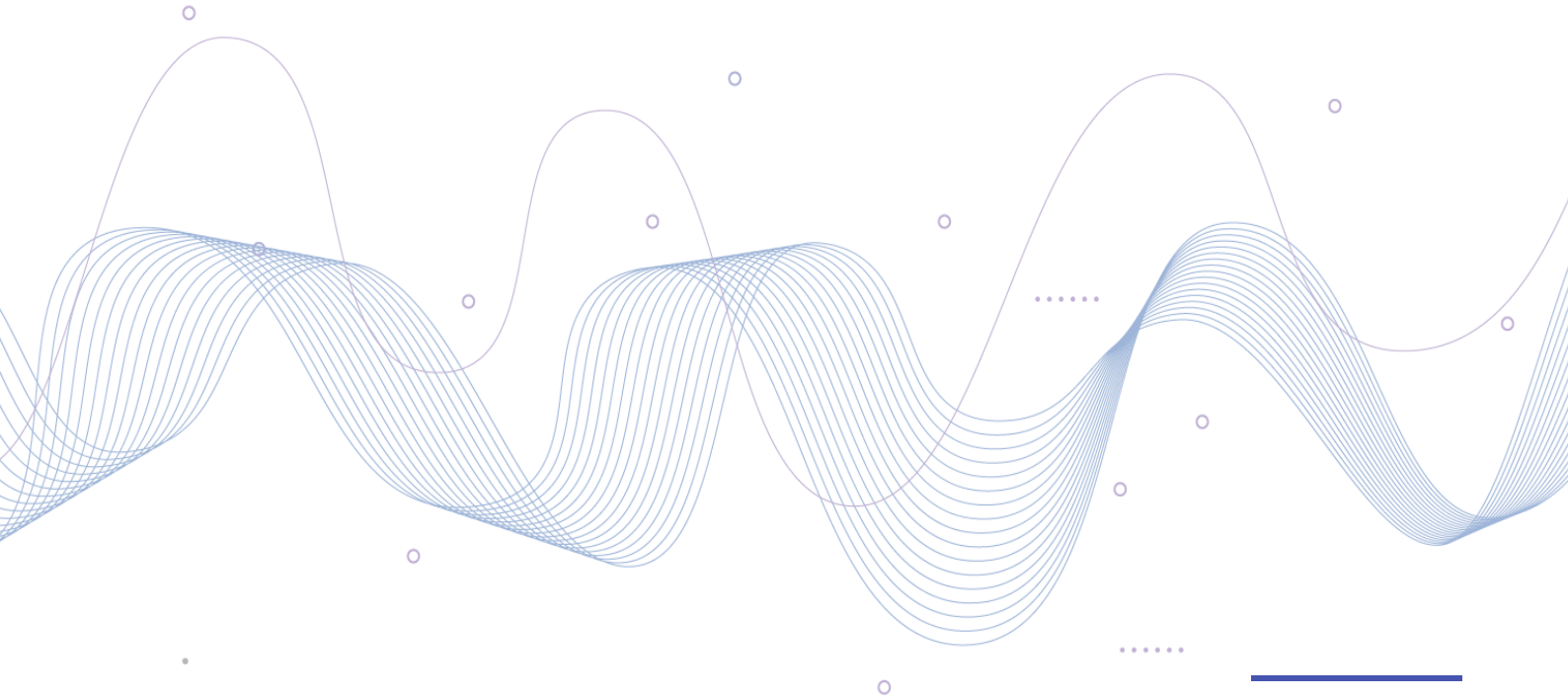
Numerical data for the evaluation period

Number of graduates who applied for initiation of proceedings for the award of a doctoral degree	29
Number of doctoral students who completed the doctoral school	22

INFORMATION ON THE ENTITY'S COOPERATION WITH THE DOCTORAL STUDENTS' COUNCIL

The CUT Doctoral Student Council comprises all doctoral students at the University and operates autonomously based on treir Regulations and the CUT Statute. The main body of the Doctoral Student Council is the University Doctoral Student Council (URD), which delegates representatives to, among others, the Senate, the Library Council, the Teaching Department, and the Senate Committee for Research and Evaluation. The URD's term of office is two years. The Doctoral Student Council collaborates with the Doctoral School (SD) on educational regulations and provides opinions on draft legislation from the CUT governing bodies regarding matters affecting doctoral students. Cooperation SD and the URD with SD allows for ongoing response to doctoral students' needs. Doctoral students have the right to express opinions on the quality of education and the functioning of the University, which is one of the tools for improving teaching and organizational processes at the SD. The URD appoints a representative to the Scientific Council of SD witch responsibilities include, among others: Providing opinions on changes to the curriculum, its regulations, and the SD admissions policy, as well as expressing opinions on the appointment or replacement of supervisors. A representative of doctoral students is also a member of each SD admissions committee where recruitment is conducted. The CUT provides the financial resources necessary to run the self-government. The URD holds meetings, communicates via email and social media profiles, and has the ability to publish information and announcements on the CUT website. The URD's powers include: operational autonomy, expressing the opinions of the doctoral student community, adopting the URD regulations, reviewing documents concerning doctoral education and admissions processes, participating in the work of university bodies, defending doctoral students' rights, and undertaking initiatives that integrate the doctoral community.

INFORMATION ON THE DOCTORAL SCHOOL GROUPED BY 8 EVALUATION CRITERIA



1. Adequacy of the education program and individual research plans to the learning outcomes for qualifications at PRK level 8 and their implementation

The curriculum was developed after analyzing doctoral students' needs and statutory requirements. The curriculum content was designed to ensure the achievement of learning outcomes at PQF level 8, which is reflected in the course syllabi. The required learning outcomes are incorporated into the course content. The introduction of the IRP in the first semester of the course ensures that doctoral students begin preparing for it from the very beginning. Submitted IRPs are reviewed by the Head of SD for compliance with the PQF level 8 learning outcomes. They include the supervisor's assessment of the feasibility of achieving the planned learning objectives. The curriculum includes general and discipline-specific modules, preparing the doctoral student for the implementation of the IRP, and professional practice. The interdisciplinary nature of the module is reflected in the general education module, which provides classes preparing students for advanced knowledge, skills, and competencies in engineering, technology, and social sciences. Completing the coursework provides specialized knowledge in research methodology, statistical data processing, quantitative and qualitative methods of economic research, metrology, modern engineering materials used in technology, advanced engineering calculation methods, and contemporary organizational management concepts. Implementation of the interdisciplinary module develops research methods, techniques, and tools, as well as the ability to creatively apply them. Through the introduction of seminar classes, doctoral students acquire the skills to initiate debate and participate in scientific discourse. Completing this training module allows them to familiarize themselves with the main trends in the development of the scientific fields in which they are studying. They understand the importance of knowledge in solving cognitive and practical problems and the need to disseminate and transfer research results to the economic and social spheres. The education proper includes classes that prepare them to achieve advanced knowledge in the scientific discipline in which they are studying, the ability to solve critical research problems, and the ability to expand existing knowledge. Completing this module provides specialized knowledge that allows for the revision of existing paradigms, encompassing theoretical foundations and general and selected specific topics relevant to the represented scientific discipline. Thanks to the acquired knowledge, the doctoral student is able to draw conclusions based on research results, critically analyze and evaluate research findings, expert activities, and other research-related work, as well as their contribution to the advancement of knowledge.
Professional internships can be carried out in the form of teaching, participating in classes, or in other forms determined by the Vice-Dean for Research, for a maximum of 60 hours per academic year.
Achieving all credits ensures the achievement of learning outcomes in the areas of knowledge P8S_WG ÷ P8S_WK, skills P8S_UW ÷ P8S_UO, and social competences P8S_KK ÷ P8S_KR. Completing the professional internships ensures the achievement of the P8S_UU outcome. Completing the curriculum provides graduates with the ability to plan and implement individual research projects. As a result, they are ready to independently conduct research while respecting the principles of ethics and intellectual property protection, and are prepared to apply for a doctoral degree.
Strengths:
• Direct contact with the Vice-Deans for Research, who are responsible for substantive oversight of the implementation of the IRP objectives;
• Direct contact with teaching staff;
• Direct contact with supervisors from within the University and indirectly from outside the University;
• Thanks to full-time education, the opportunity to exchange experiences with other doctoral students and develop interpersonal skills;
• A coherent and transparent curriculum, divided into interdisciplinary courses (over 3 semesters) and specialized education in the scientific disciplines in which the doctoral dissertation is being prepared;
• Engagement of doctoral students in improving the curriculum;
• Verification of the implementation of the IRP objectives, and thus of the assigned learning outcomes, in semesters 3–8 through successful completion of the Specialty Seminar;
• Support for internationalization and the development of language skills through classes conducted in English;
• Systematic annual evaluation of the curriculum by the SD Scientific Council (Vice-Deans for Research and a representative of doctoral students).
An area that could be optimized is the possibility of introducing elective courses, which could increase interest in interdisciplinary research among doctoral students and strengthen the competencies they develop.

2. Method of verifying learning outcomes for qualifications at PRK level 8

The principles for assessing learning outcomes are publicly available and defined in the SD regulations, the curriculum, and the individual subject syllabi. They are the same for every doctoral student, regardless of the academic discipline in which they are studying. This ensures transparency and reliability in the assessment of learning outcomes. Completing the curriculum by obtaining credits in all subjects and submitting a doctoral dissertation with a positive opinion from the supervisor(s) within the deadline specified in the IRP is equivalent to obtaining a qualification at PQF level 8. Doctoral students receive a certificate of completion of their studies at SD and fulfilling the statutory requirement of achieving learning outcomes for a qualification at PQF level 8. Doctoral students who completed first-cycle or long-cycle master's studies begun before September 30, 2007, and whose higher education diploma does not confirm language proficiency at level B2, may enroll in a language course culminating in a written examination. The courses are prepared by the Foreign Languages Department at the CUT, and a successful exam guarantees the doctoral student a certificate confirming knowledge of a foreign language at the B2 language proficiency level.

Achieving the learning outcomes described in the course syllabi requires doctoral students to attend classes, which are taught in a face-to-face format. The requirements and procedures for passing the course are outlined during the first class. All classes, regardless of the format, conclude with a graded assessment consisting of a formative assessment, preparation for classes, and a summary assessment of mastery of the course material. The tools used to assess learning outcomes, depending on the course type, include a written assessment or tests. In the case of classes conducted in a discussion or seminar format, the doctoral student will present a given topic and discuss it. The regulations stipulate two assessment sessions. Failure to obtain a grade by September 15th will result in the initiation of the removal procedure from the doctoral student register.

Professional internships, which involve teaching or co-teaching classes with students, are conducted under the supervision of the supervisor or course coordinator. Courses taught independently by doctoral students are entered into the USOS IT system. Completion of assigned classes for a given academic year is confirmed on the professional internship credit card with the signature of the course coordinator or supervisor and approved by the Vice-Dean for Research.

PhD students' education is based on the curriculum and the IRP. Some learning outcomes are achieved through the achievement of the objectives set forth in the IRP and discussed during classes in the "Development of IRP" course, which are verified by the SD head after submitting the IPB to the school's administrative office. One element of each IRP is familiarization with the current state of knowledge within the research topic being pursued. Achieving this objective ensures, among other things, the achievement of the following learning outcomes: P8S_WG, P8S_UO, P8S_UU, P8S_KK. Defining the topic, objective, and formulating research hypotheses, as well as critically analyzing the research results, achieves the following outcomes: P8S_UW and P8S_KR. Additionally, the doctoral student is obligated to plan active participation in the conference at the IRP and publish a scientific article (achieving the P8S_UK and P8S_WG outcomes). The supervisor verifies the learning outcomes assigned to the IRP by preparing an opinion and personally signing the mandatory annual progress report on the doctoral student's academic development and implementation of the IRP. In this report, the doctoral student describes the degree of achievement of the goals set out in the IRP and submits it to the SD office for completion of the year.

The next stage of learning outcomes verification is the mid-term evaluation. During the presentation, the doctoral student presents the degree of achievement of the goals set out in the IRP, and thus the assigned learning outcomes. Clarity of the evaluation process is ensured by the participation of an external expert in the committee meeting. In the event of a negative mid-term evaluation, the doctoral student is removed from the list of doctoral students (1 case to date). Furthermore, completing the mid-term evaluation procedure, which involves presenting to the committee and presenting progress towards the goals set out in the IRP, is equivalent to achieving the following learning outcomes: P8S_WG, P8S_UW, and P8S_UK. Confirmation of the successful completion of the mid-term evaluation is a committee report signed by all its members.

PhD students participate in national and international scientific conferences, achieving the P8S_WG, P8S_UW, P8S_UK, and P8S_KK outcomes. They report their conference participation as achievements in the annual IPB implementation report submitted to the SD administrative office. Additionally, articles affiliated with CUT are submitted to the internal publication database in the CUT main library.

To ensure high educational standards and the verification of learning outcomes required for qualifications at PQF level 8, the SD Scientific Council analyzes methods for verifying learning outcomes based on assessments of the quality of education made by doctoral students (results of observations of teaching staff conducting courses conducted by department heads), doctoral students' reports regarding the relevance of substantive content, and discussions with instructors regarding modifications to the methods for verifying learning outcomes and course topics. Methods for verifying learning outcomes are included in publicly available documents (SD regulations, curriculum, course syllabi), enabling the assessment of the transparency and reliability of this element of SD education.

The process of improving the curriculum is based on annual evaluations by the SD Scientific Council, consisting of the Vice-Deans for Research representing the scientific disciplines in which education is provided, the SD Head, and a representative of doctoral students appointed by the University Doctoral Student Council (URD). Based on the experience gained by the Vice-Deans during their education, as part of an effort aimed at improving the educational process to achieve learning outcomes at PQF level 8, the Council meeting analyzes the adequacy of the curriculum to the learning outcomes and, if deemed appropriate, proposes modifications. If changes to the curriculum are deemed necessary, the Council instructs the Head of the University of Science and Technology to prepare a draft of a new curriculum. Once approved, the process of adoption by the University Senate begins. Pursuant to the Act, the new curriculum requires consultation with the doctoral students (URD). Previous evaluations of the curriculum have not changed its overall framework. At the request of the doctoral students, a course in English, "Communicating Science to Non-Scientific Audiences," was introduced in the third semester. Its purpose is to develop the ability to communicate scientific information to non-scientific audiences and to develop language proficiency. In the 7th semester, Doctoral Workshops with Vice-Deans for Research were introduced to prepare for the doctoral dissertation defense. In the final, 8th semester, a Doctoral Seminar led by the Head of the Doctoral School addressed statutory

requirements regarding the format of a doctoral dissertation. The internal evaluation also enabled changes in faculty and a modification of the syllabus.
Strengths:
• Discussion during classes on the preparation of the IRP enables the formulation of goals, the achievement of which clearly confirms the achievement of the intended learning outcomes;
• Monitoring the implementation of the curriculum and the goals included in the IRP;
• Annual reports on the implementation of the IRP objectives, reviewed by the supervisor(s);
• Good contact with doctoral students and their freedom to express their opinions regarding the verification of learning outcomes.
Areas for improvement:
• Increased feedback regarding the usefulness of competencies acquired during the educational process for research work.

3. Qualifications of academic teachers or research staff conducting education at the doctoral school

In establishing the SD, the university authorities prioritized high-quality doctoral education, which was achieved, among other things, through the proper selection of teaching staff. Academic teachers who conduct classes possess substantive knowledge and teaching skills at the highest scientific level in the represented scientific discipline. They hold at least a habilited doctor degree or a doctor degree, as well as focused skills and specialized knowledge in the field of teaching. To ensure reliable selection of SD teaching staff, the following criteria were adopted:
1. Representation of the scientific discipline in which education is provided at the doctoral school;
2. Convergence of scientific interests and research areas with the courses taught; these areas must be confirmed by publication achievements;
3. Very high communication skills;
4. High ratings in previous student surveys.
Based on employee evaluation statements, Criterion 1 was verified. All academic teachers who teach support the scientific disciplines in which doctoral students are educated. When selecting faculty to meet Criterion 2, interviews are conducted with the Vice-Deans for Research. After selecting individuals whose research interests and academic achievements align with the topics of their teaching, the Head of SD conducts interviews with the teachers, establishing a detailed substantive scope of the subjects included in the curriculum, taking into account global trends. Vice-Deans for Research were selected to teach the subjects "Focus Seminar," whose task is to monitor and verify progress on the implementation of the IRP objectives, and "Doctoral Seminar," whose goal is to prepare doctoral students for the mid-term evaluation. The subject "Commercialization of Research Results" is taught by the director of the Technology Transfer Center at the CUT. For the subject "Methods of Obtaining Funding for Scientific Research," employees with an impressive track record in submitting, awarding, and managing grant projects were sought. The decision was made after interviews with the candidates. All academic teachers teaching doctoral students received high ratings in student surveys and are well-liked and valued by both students and doctoral students. The qualifications of those teaching doctoral students are verified by the Head of the SD based on information obtained from doctoral students regarding the quality of education, survey results, and through contact and exchange of information with the Vice-Deans for Research regarding the academic development of staff teaching at the SD and the Vice-Deans for Teaching. In the event of discrepancies in the implementation of program content, unsatisfactory effectiveness in transferring knowledge to doctoral students, or other unexpected events, the Head of the SD will replace the instructor after consultation with the Vice-Deans for Research and the Vice-Deans for Teaching. To date, several changes have been made, only one of which was due to unsatisfactory effectiveness in transferring knowledge to doctoral students at an advanced level.
A separate group of academic teachers teaching at the doctoral school are the supervisors. They lead the Thematic Doctoral Seminar, working individually with each doctoral student. During the classes, research results are discussed and the compliance of the research topics with the IRP provisions is verified. According to the regulations, the Head of SD appoints the PhD supervisor after the candidate receives a positive opinion from the Scientific Council. During the operation of the doctoral school, two online training sessions for PhD supervisors were conducted by external companies providing services to higher education institutions. Attendance of PhD supervisors was mandatory and confirmed by a signature on the attendance list. The materials obtained constitute a resource for the SD in raising awareness among university staff of the tasks and role of the PhD supervisor/assistant supervisor in doctoral student education and the functioning of the PhD supervisor-student team in doctoral education and dissertation preparation.
Strengths:
Competent, highly qualified teaching staff;
Sharing the faculty's interests in the content of the classes;
Close collaboration with the Vice-Deans for Research and Teaching in staff selection;
Direct contact between the Head of SD and the teaching staff;
Introducing Vice-Deans for Research into doctoral education;
Forcing and formalizing doctoral student-supervisor cooperation by introducing a supervisory seminar into the curriculum.
Areas for improvement: Lack of foreign lecturers in doctoral education.

4. Quality of the recruitment process

The SD's recruitment process is conducted by recruitment committees separately for each scientific discipline. Its goal is to select the best candidates for SD based on a description of the proposed research topic, an interview, and an assessment of the candidates' previous experience and scientific achievements. The SD operates under the Regulations, adopted by the university Senate and available electronically on the SD website https://pcz.pl/badania-i-nauka/szkola-doktorska/regulamin). Section 7 of the Regulations is dedicated to SD recruitment, describing the procedures for adopting recruitment rules by the Senate, the method of appointing recruitment committees, and the principles of supporting individuals with special needs in the recruitment process. The SD's recruitment requirements for each academic year are adopted by the Senate after obtaining the approval of the University Doctoral Student Council (URD) and the SD's Scientific Council, within the timeframe specified in the Act, i.e., at least five months before the start of the recruitment process. Typically, the recruitment requirements are reviewed by the university Senate at its February or March meeting. Immediately after adoption, they are published in the Public Information Bulletin (BIP) under the Education/Doctoral School/Recruitment Conditions and Procedure tab and on the SD website under the Recruitment tab. The Senate resolution also specifies the dates and location of the recruitment process separately for each scientific discipline. The evaluation criteria are presented in tabular form, ensuring the transparency and clarity of the criteria used in candidate evaluation. A guide for candidates is also being prepared, describing step-by-step the steps required to complete the recruitment process (https://pcz.pl/badania-i-nauka/szkola-doktorska/rekrutacja-do-szkoly-doktorskiej). Two recruitment procedures are planned:
1. regular, allowing for the start of training on October 1st;
2. special, allowing for the start of training twice a year outside the established dates, linked to the results of competitions in which the doctoral scholarship is financed from sources other than subsidies (e.g., research agencies).
Doctoral students admitted through special recruitment are not subject to the admissions limits established by the Rector. The first step in the recruitment process is to register the candidate in the IRK (Internet Candidate Registration) IT system. After completing the appropriate forms and attaching any attachments, the candidate submits a complete set of documents in hard copy to the SD office. The candidate submits a self-report, including a description of the planned research topic, to the Vice-Dean for Research representing the appropriate scientific discipline. All candidates are evaluated according to the same criteria. Admission limits are established by the Rector for each academic year, separately for each scientific discipline in which recruitment is conducted. To maintain the exclusive nature of doctoral education, the limit for the current recruitment process was two places in each scientific discipline in which recruitment was conducted. The Head of SD, in consultation with the Vice-Deans for Research, appoints recruitment committees for a given academic year, separately for each scientific discipline in which recruitment is conducted. Each recruitment committee is chaired by the head of the SD, and consists of the Vice-Dean for Research or a person designated by him, two employees with a minimum postdoctoral degree, designated by the Vice-Dean for Research, a representative of the doctoral students, and a non-voting secretary. Decisions are made by a simple majority vote. The process is two-stage and aims to select candidates with the best research topics. The first stage involves the Vice-Dean for Research assessing the candidate's self-presentation based on three criteria:
1. Compatibility of the proposed research topic with the research issues in the given scientific discipline;
2. Ability to implement the research topic based on available human resources and research equipment;
3. Originality of the proposed research topic.
The maximum number of points a candidate can obtain at this stage is 30. In the second stage, which is the interview, the candidate presents their proposed research project, taking into account the following criteria:
1. Ability to present the research topic;
2. Ability to formulate a scientific goal;
3. Planning the scope of research and experiments;
4. General knowledge of the scientific discipline in which recruitment is being conducted.
During the presentation, questions regarding the project are asked. Each applicable criterion is assessed anonymously by committee members on a scale of 0 to 10. Additionally, points are awarded for other achievements demonstrated by the candidate in the recruitment documentation. The following are assessed:
1. Completed field of study;
2. Grade on the diploma;
3. research activity (including publications, conference participation);
4. completed courses and training related to the field of science in which recruitment is being conducted;
5. knowledge of a modern foreign language confirmed by a certificate.
The maximum number of points a candidate can obtain in the recruitment process is 100. Candidates are assessed individually by each committee member, and the number of points obtained in the recruitment process is the arithmetic mean of all grades plus the individual assessment of the Vice-Dean for Research. Minutes of recruitment committee meetings are prepared. They contain basic information – the location and date of the committee meeting, its composition, the names of the candidates, the proposed research topic, the assessment of the Vice-Dean for Research, and the arithmetic mean of the grades for each candidate. The minutes serve as the basis for preparing a ranking list of candidates in the scientific discipline in which recruitment is being conducted. To be included on the list of doctoral candidates, a candidate must obtain a minimum of 75 points. If the number of candidates who score 75 points or more exceeds the number of places, they are placed on a reserve list. Admission is only possible if the Rector increases the admission limits by October 15th or a spot becomes available on the admission list (a candidate admitted to the SD does not commence or withdraws from their studies). The results of the admission process are public. Candidates receive information about the results of the admission process in the IRK system. Ranking lists are published on the SD website and are available at the SD administrative office. Candidates who do not achieve the required point limit receive a decision denying admission to the SD based on legal provisions. The right to request a reconsideration of the denial decision is available. To date, four appeals have been filed with the SD Head. In two cases, after reconsideration, candidates were added to the SD doctoral student list. One case was referred

to the Regional Administrative Court, which, after reviewing the appeal, ordered the candidate to be admitted to the SD. In the fourth case, after a reconsideration of the case, the decision to deny admission by the head of the Doctoral School was upheld. For foreigners, the prerequisite for participation in the recruitment process is a command of Polish sufficient to enable communication and active participation in classes. Currently, the Doctoral School has four foreign doctoral students. The Doctoral School provides assistance in the recruitment process for candidates with disabilities (https://bon.pcz.pl/rekrutacja-wsparcie). Candidates submit an application to the Rector's Representative for Persons with Disabilities, specifying the form of support they require to participate in the recruitment process. This application is an annex to the Resolution on the Conditions and Procedures of Admission to the Doctoral School of the Częstochowa University of Technology. Two candidates have submitted such applications so far. During the interview, both were provided with appropriate conditions to participate in the recruitment process, according to their needs. Support during the interview was provided to candidates by staff from the Office for Persons with Disabilities. During the period under review, 11 individuals with disabilities were enrolled at SD. Currently, SD is enrolling seven doctoral students with disabilities. Education at SD is very popular. Only the Covid-19 pandemic caused a decline in interest, which was evident in the 2021/2022 and 2022/2023 enrollments. However, since 2023/2024, the number of applicants for SD relative to the number of places has been increasing.
Strengths: transparent recruitment conditions; accessibility of information regarding recruitment conditions on the website and at the SD office; timely publication of legal acts related to recruitment; accounting for additional candidate competencies; taking into account the needs of individuals with special needs.
Weaknesses: inability to recruit individuals who do not speak Polish.

5. Quality of scientific or artistic supervision and support for conducting scientific activities

To ensure high-quality supervisory support, a limit of 3 doctoral students has been introduced. For teachers who work closely with the business community and demonstrate excellent professionalism and diligence in the performance of their duties, the opportunity to supervise 5 doctoral students has been granted, after consultation with the Head of SD and the Vice-Dean for Research. The supervisor appointment procedure stipulates that, within two months of commencing their studies, a doctoral student submits to the Head of SD an application for the appointment of a supervisor(s) under whose supervision they will implement the IRP and prepare their doctoral dissertation. The application includes, among other things, consent to the appointment and justification. In the case of interdisciplinary doctorates, two supervisors representing each scientific discipline are required. The SD regulations contain strict guidelines for the provision of supervisory support. They also include the possibility of a supervisor being held by a person who does not hold a postdoctoral degree or the title of professor and is employed at a foreign university or research institution. In such a situation, the candidate's achievements are evaluated by the SD Scientific Council, and a positive opinion allows the application to proceed.
Supervisor candidacies are discussed at a meeting of the SD Scientific Council. Each Vice-Dean for Research presents an opinion on the candidate for the supervisor of a doctoral student studying in their respective discipline. Based on this, in an open vote by a simple majority, the candidate supervisors receive either support or rejection. This is reflected in the minutes of the SD Scientific Council meetings. The Head of SD appoints supervisors. The SD Regulations define the supervisor's responsibilities, the primary focus of which is supporting the doctoral student in their independent research.
In justified cases, both the doctoral student and the supervisor may request a change of supervisor(s) or resignation from this position. Such a request must be justified and should be addressed to the SD Head. During the evaluation period, there were several supervisor changes, primarily due to scientific promotions of assistant supervisors or unexpected events. The SD regulations also address situations in which the supervisor is on sabbatical or health leave and is unable to provide supervision, or an unexpected event prevents proper supervision. In such a case, the SD Head requests the head of the academic discipline to propose a second supervisor or an assistant supervisor. The supervisor's replacement in such a situation is implemented according to the procedure used for appointing supervisors.
Problems between supervisors and doctoral students are resolved through dialogue. Doctoral students can report any conflicts directly to the SD Head, who clarifies the dispute and seeks a resolution through mediation. The two sporadic cases that have occurred so far have resulted from a lack of communication between the PhD student and their supervisor, and a direct conversation between the SD Head and both parties (individually) resolved the issue. If an agreement cannot be reached, the Head of SD may replace the supervisor according to the generally applicable procedure. We are currently in the process of implementing the supervisor replacement. The conflict stems from a dispute over co-authorship of a patent application and arose just before the completion of the doctoral student's research. An investigation is underway by the doctoral student disciplinary spokesman, and the supervisor has resigned from his position. The Vice-Dean for Research was proposed as a candidate for the supervisor, but because the doctoral student complained of a lack of impartiality, the search for a candidate whose knowledge and interests aligned with the dissertation topic was conducted outside the university. As of the date of the report, the candidate for the supervisor agreed to serve in the position, and the doctoral student accepted this solution. This will result in the completion of their studies and submission of their doctoral dissertation to the SD office within the next few months.
The SD provides doctoral students with access to laboratories, research equipment, and library resources, to the extent necessary to complete the educational program, the IRP, and prepare their doctoral dissertation. Access to specialized research infrastructure is provided by the departments where the doctoral students conduct their research.
Doctoral students who are parents exercised their right to maternity leave. Individualized coursework is also available, which contributes to reconciling the roles of parent and doctoral student.
The Office for Persons with Disabilities (BON) provides doctoral students with appropriate research and teaching infrastructure. Doctoral students can count on financial assistance, teaching support, the loan of necessary equipment, and various extracurricular activities. To date, 1 person has taken advantage of this option.
SD engages outstanding specialists employed outside the institution, most often as supervisors or assistant supervisors. In addition to supporting the doctoral student's development and implementing joint research topics, these individuals review the IRP and all other applications submitted by doctoral students to the SD.
Review of supervisors' work is overseen by both the Head of SD (review of annual progress reports on the implementation of IRP) and the Vice-Deans for Research during the Specialized Seminar classes held in sem. 2–6. During these sessions, doctoral students present their ongoing progress in implementing the IRPr objectives and discuss research results, taking into account their impact on the research hypotheses and dissertation topics. The curriculum also includes individual sessions for doctoral supervisors with doctoral students – the Thematic Doctoral Seminar. This course is offered from the fourth semester of study, totaling 50 teaching hours. These sessions facilitate intensive work on doctoral student development and foster closer collaboration.
The high rate of doctoral students who completed their studies, initiated the promotion process, and, after a successful defense, received their doctoral degree confirms the soundness of our approach to ensuring high-quality doctoral supervision.
Strengths:
• Initiation of doctoral student-supervisor collaboration at the beginning of the program;
• Transparent process for appointing and replacing supervisors;
• Involvement of researchers from other institutions and abroad in the role of supervisor; the introduction of a topical seminar to the curriculum, aimed at verifying the implementation of the IPB objectives;
• Direct contact between the SD director and supervisors;
• Support for individuals with special needs.
Areas for improvement:
• Increasing the number of supervisors from external institutions.

6. Integrity of the mid-term evaluation process

The mid-term evaluation is a process that allows for the assessment of doctoral students' progress in implementing the IRP. Its purpose is to verify the implementation of the IRP objectives. It serves as a monitoring and support function, enabling the identification of doctoral student needs or the need for adjustments to the IRP. The regulations do not permit changes to the IRP before the mid-term evaluation.
Evaluation committees are appointed by the head of SD in the 4 sem., and the evaluation is in October. Candidates for committee are presented to the head of SD by the vice-deans for research. Committee members are selected based on the consistency of their scientific achievements with the research topics being pursued by the doctoral students. The SD regulations stipulate that if the subject matter of the work within the scientific discipline is broad and divergent from the achievements of the external expert, more than one committee may be appointed.
Each committee consists of 3 members, including at least one external expert with at least a habilited doctorate or the title of professor in the scientific discipline in which the evaluation is conducted. The requirement for an external expert to be on the committee significantly impacts the impartiality and reliability of the evaluation process. The committee is chaired by the Vice-Dean for Science, or, in justified cases, by a person designated by the Vice-Dean. The Head of SD may participate in the meeting as a non-voting observer. The doctoral student's supervisor and assistant supervisor cannot be committee members.
The Head of SD sets the committee meeting dates for all doctoral students representing the scientific discipline in which the evaluation is being conducted. Till September 30th, doctoral students are required to submit to the Vice-Deans for Science documentation confirming the implementation of the IRP, based on which the evaluation is conducted:
• documentation confirming the implementation of the IRP;
• a self-report on the progress of the IRP;
• an opinion from the supervisor and assistant supervisor regarding the doctoral student's scientific development;
• other, additional achievements not included in the IRP.
For those who fail to complete this formality, the removal procedure is initiated. A digital version of the achievements is also attached to documentation, which the committee receives via email before the meeting for review.
The SD provides the technical facilities necessary to conduct the evaluation. Doctoral students attend the committee meeting individually, and after their presentations, the members assess the level of research progress, the adequacy of the research methods used, and the scientific value of the presented results. The evaluation includes a discussion during which the doctoral student is asked questions regarding the implementation of the IRP. If there is a concern that the work may not be completed on time or its scientific value is not sufficiently, the team presents the doctoral student with comments regarding the need to amend the IRP. The evaluation concludes with a positive or negative result, which the committee adopts in an open vote by a simple majority. After the deliberations, the committee chair prepares a report of the meeting, along with a justification for the evaluation results. A positive result allows for the continuation of studies, while a negative result results in removal from the list of doctoral students. A request for reconsideration may be submitted against the decision to remove the student. The SD ensures that the mid-term evaluation is conducted in a timely manner. The results are public, published on the SD website, and available for review at the SD office. If a doctoral student has any objections to the evaluation result, they may request a reconsideration. To date, only 1 case, in 2021, has resulted in a negative evaluation. After a discussion, the evaluation committee concluded that the work was not carried out in accordance with the IRP guidelines and that it was impossible to complete it. Following the appeal process, the Regional Administrative Court confirmed the correctness of the decision of the head of SD and the proper conduct of the procedure itself.
The mid-term evaluation system at the SD is transparent and complies with the principles of quality assurance. The criteria are precisely defined, which influences doctoral students' awareness of the effects of the evaluation. With remedial measures in mind and the transparency of the evaluation process, a provision was added to the Regulations in 2022 allowing for the preparation of an audio recording for the preparation of report of the committee meeting.
The provisions of the SD Regulations allow for the evaluation of the implementation of the IRP and the doctoral student's education program at each stage of education by an internal committee consisting of the head of SD, the vice-dean for research, and a person holding a habilitated doctorate or the title of professor in the discipline in which the doctoral dissertation is being prepared. Until now, there has been no need to implement this procedure.
In 2023, an external expert changed his or her leading discipline between the date of appointment to the committee and the date of the evaluation, without informing the committee chair. Although the doctoral students underwent the evaluation and received a positive result, it was decided that the evaluation should be repeated to meet formal requirements. To prevent a similar situation from occurring again, a template for a declaration for an external committee member regarding support for the scientific discipline in which the mid-term evaluation is being conducted was introduced.
During the SD evaluation period, 89 doctoral students participated in the mid-term evaluation, and only one negative result was recorded. Committee members emphasized the doctoral students' excellent preparation for their presentation. In addition to the formal evaluation, experts identify research directions that, in their opinion, doctoral students should consider in their research to broaden their understanding. Thanks to the implemented procedures for verifying the progress of IRP implementation within the curriculum, any delays or unsatisfactory progress of doctoral students in completing IRP are identified and remedial actions are undertaken. If these actions prove ineffective, removal procedures are initiated. 7 removals were made as a result of these actions during the evaluation period. Strengths:
• transparency of the mid-term evaluation process;
• permanent introduction of a narrowed (to a specific month) deadline for the mid-term evaluation in the SD Regulations;
• linking progress in the implementation of IRP objectives to the curriculum;
• high success rate relative to the number of doctoral students assessed.
Weaknesses:
• lack of international experts in the mid-term evaluation process.

7. Internationalization

Many factors contribute to the internationalization of SD. These include:
• educating foreigners; • supervisory support provided by foreigners;
• introducing English-language instruction;
• internships abroad;
• participation in international conferences;
• publishing research results in international journals.
SD actively participated in the development of the double degree agreement. Developing general guidelines based on applicable law enabled the signing of an agreement between PCz and the University of Gent in Belgium, according to which PhD student Anna Jasińska (Environmental, Mining, and Energy Engineering) pursued her education. The parties decided to provide dual supervision for the PhD student and award a joint doctoral degree. Professor Dr. Erik Meers supervised the PhD student on behalf of the University of Gent. The PhD student conducted a significant portion of her research in Poland, but a significant portion was completed during her stay at the partner institution. The internship included conducting laboratory research, participating in a series of seminars, and training in the use of specialized laboratory equipment. The research resulted in a series of interconnected, thematically related scientific articles. The doctoral student has now completed her doctoral studies.
PhD student Bartosz Płoszaj (Materials Engineering) began working with Dr. Simon Walters from the University of Brighton (UK), who was appointed as an associate supervisor. This collaboration enabled him to draw on the specialized knowledge derived from the research experience of experts from the University of Brighton and gain access to modern scientific methods and solutions. The collaboration included assistance in developing research results, regular substantive consultations, and participation in publications, which significantly contributed to the completion of his doctoral dissertation. Outside of the evaluation period, the doctoral student submitted his doctoral dissertation with positive feedback from his supervisors and received a certificate of completion. His promotion process is ongoing at his home faculty.
Second-year PhD student Weronika Folwarska (Technical Information Technology and Telecommunications) participated in a three-month internship (SMT) at the Barcelona Supercomputing Center (BSC) in Spain as part of the "Erasmus+" program, during which she established collaborations with leading researchers in the field of supercomputing. The collaboration with Dr. Sergio Iserte resulted in a submitted application to appoint him as an assistant supervisor, which will be considered at the December meeting of the SD Scientific Council. Together with the BSC team, the PhD student obtained access to the Welcom to the RES – Red Española de Supercomputación (RED ESPAÑOL) computing grant. She is also co-author of a high-scoring publication (Elsevier, 140 points), which will be published next year. Currently, the PhD student is continuing her second-year studies at SD.
PhD education at SD is conducted in Polish. Admission of a doctoral student from abroad is possible provided they speak Polish sufficiently to undertake their studies and actively participate in classes. Foreign candidates are subject to the same admission procedure as any other candidate. According to the Act, admission of a foreigner is based on an administrative decision of the Rector. Candidates participate in the regular admission process and must obtain a sufficient number of points to be included on the SD doctoral student list. Doctoral students receive assistance with accommodation in a student dormitory and are issued certificates necessary to extend their legal stay in Poland or confirm their doctoral student status. Foreign students receive support from the Center for International Students (CSZ) staff regarding administrative procedures related to legalizing their stay in Poland and the opportunity to participate in integration meetings organized by CSZ. Currently, four foreign doctoral students are studying at SD.
SD provides doctoral students with various incentives, including funding for trips to international conferences, support in preparing grant applications, and annual meetings encouraging applications for the Fulbright Program, attended by the program's ambassador, Dr. Hab. Krystyna Malińska, PhD. To date, as part of this program, a 4-month internship at Stanford University (USA) has benefited doctoral student Lena Caban (Mechanical Engineering). During her internship, she led the project entitled "Developing an Approximate Deconvolution Model for Turbulent Combustion." The teaching staff at Stanford University demonstrates high international activity. This includes participation in grant competitions, implementation of projects in international consortia, numerous internships, and study visits.
Lecturers are members of global expert bodies.
Expert and reviewer roles:
• Project review for the Czech Science Foundation (GAČR) – Krzysztof Chwastek, PhD, DSc, Eng.
• European Commission expert in RFCS, EIC Accelerator, MSCA PF, and Cypriot and Montenegrin programs – Dr. DSc, Eng. Sylwia Wencel
• Coordination and implementation of international projects: Organic PLUS (2018–2022) – Horizon 2020, Nutri2Cycle (2018–2023) – Horizon 2020, AGRI-BIOCIRCULAR-HUB (2025–2028) – Horizon Europe – Dr. DSc, Eng. Krystyna Malińska

Implementation of international projects:
• Erasmus+ Capacity Building in Higher Education – a program development project in Thailand – Prof. Dr. DSc, Eng. Dorota Jelonek;
• Participation in research consortia with, among others, NILU, IFE – Norway, HUST, and SEU – China – Prof. Dr. DSc, Eng. Tomasz Czakiert;
• Ongoing research partnerships with institutions in China, Australia, and the USA (A. Durajski; A. Tyliszczak; R. Scherer; M. Zalasiński).
• Participation in EU Framework Projects – FP7, Horizon 2020 – Przemysław Postawa,

Expert roles:
• European Commission – Expert Group on Steel 4 (TGA4) (Sylwia Wencel).
• Expert committees for the evaluation of EC proposals (RFCS, EIC, MSCA) (Sylwia Wencel).
• Bio-based Industries Consortium, ESNI Steering Committee (K. Malińska).
• Editorial boards of Springer, MDPI, and Elsevier journals (A. Grobelak, A. Mesjasz-Lech).
• Scientific committees of the SDEWES, ManuREsource, and other conferences.

The staff completed numerous internships abroad:
Serbia (2023) and the Czech Republic (2022) – Prof. Chwastka,
TU Dresden (2023), VŠB Ostrava (2022) – Dr. DSc. Gryś,
Krško (Slovenia) – research on magnetic materials (A. Jakubas),
Niigata University, Japan (2016) – T. Czakiert,
University of Alberta, Canada (2023) – R. Scherer, M. Zalasiński,
Imperial College London (2023) – Scherer, Zalasiński,
Cambridge University (2016) and the University of Southern California (2022) – Prof. Tyliszczak,
Obuda University, Budapest (2023) – A. Mesjasz-Lech.

The high recognition of the faculty is confirmed by, among others, the inclusion of the names of Dr. DSc. Eng. Krzysztof Chwastka and Dr. DSc. Eng. Piotr Gębara in the global ranking of World's TOP 2% Scientists (Stanford University, Elsevier, SciTech Strategies) – multiple lifetime and annual Fulbright Senior Awards (2019), and numerous international awards for inventions for Przemysław Postawa, PhD, DSc, Eng., including from Saudi Arabia and South Korea.

Strengths:
• cooperation with foreign centers;
• supervisors and co-supervisors from abroad;
• opportunities to educate foreigners;
• support from the University of Technology in preparing documentation;
• participation of doctoral students in internships and practical training;
• implementation of joint doctorates (cotutelle, joint PhD).

Areas for improvement:
• lack of instruction in English;
• inclusion of foreign lecturers in the educational process;
• increasing participation of doctoral students in academic mobility.

8. Effectiveness of doctoral education

Percentage of individuals who obtained a doctoral degree	Doctoral students who applied for initiation of proceedings for the award of a doctoral degree	Doctoral students who were awarded a doctoral degree	Doctoral students who were denied the award of a doctoral degree
in the number of doctoral students who completed their education at the doctoral school during the evaluation period	88 %	67 %	0 %
in the total number of doctoral students who completed their education at the doctoral school	88 %	67 %	0 %

Doctoral students complete their studies within the deadline specified in IRP, taking into account the statutory possibility of extending their studies, in accordance with the SD Regulations. 16 doctoral students from the first intake, 9 from the second intake, and 9 from the third intake requested an extension of this deadline. Most of the justifications related to the deadlines for publishing articles, which are basis for applying for the doctoral degree, and the doctoral students' achievements and the scope of the IRP were unquestionable. During the evaluation period,6 doctoral students failed to submit their dissertations because they had chosen a different career path. Missing the deadline for submitting a doctoral dissertation specified in the IRP is grounds for removal from the list of doctoral students. The SD places particular emphasis on compliance with this requirement.
During the evaluation period, of the 37 doctoral students who completed their studies, 29 defended their dissertations and were awarded a doctoral degree. Further promotion procedures are currently underway, but they are not included in the evaluation period.
The evaluation of doctoral education is conducted in accordance with procedure Z1/PU-2, as defined in the Quality Manual. A survey regarding the implementation of the teaching process is not mandatory. The CUT does not have its own career tracking system, and the ELA system does havn't functionality for doctoral school graduates. The university maintains informal contacts with some graduates, and based on this, we can conclude that some of them pursue academic teaching positions (Wrocław University of Science and Technology, Kraków University of Economics, and University of Warsaw) or secondary school teaching positions.
Strengths:
High percentage of:
PhD students completing their education;
initiating promotion processes;
defended theses and awarded degrees.
Areas for improvement:
Lack of formalized monitoring of graduates' careers.

1. automation, electronics, electrical engineering and space technologies

Achievement Description

The scientific discipline of Automation, Electronics, Electrical Engineering, and Space Technologies is not very popular during the recruitment phase. During the evaluation period, we had two recruitment rounds in which there were no candidates for the doctoral school, and in two other rounds, PhD students were either removed from the list of PhD students due to non-compliance, withdrew, or failed to submit their doctoral dissertations on time.

1. Tomasz Kasprzak, 4th-year PhD student

Conference participation:
1. Participation in the 53rd Inter-University Conference of Metrologists, Warsaw Central Office of Measures, September 13-15, 2021, presentation and paper "Noise Reduction Measurements at a Selected Workstation Using a Sound-Absorbing Screen," Opole University of Technology monograph "Metrology. Theory and Practice," Opole 2021.
2. Participation in the 6th Scientific Conference "Social Responsibility of Property Managers in the Smart City Concept – "Science 2 Business," Częstochowa, May 26-27, 2022, presentation "Counteracting the Digital Exclusion of Seniors."
3. Participation in the 14th Scientific and Technical Conference "Fundamental Problems of Metrology", Gliwice, June 6,

2022, presentation "Verification of the ability to generate sinusoidal thermal excitation in non-destructive testing."
4. Participation in the 54th Interuniversity Metrology Conference, Kielce-Masłów, September 21-23, 2022. Presentation and paper "Non-destructive testing of composite materials using active infrared thermography," a monograph from the Opole University of Technology, "Metrology: Research and Applications," Opole 2022.
5. Participation in the 55th Interuniversity Metrology Conference, Wrocław, September 20-22, 2023. Presentation and paper "Application of active infrared thermography to determine thermal properties of materials using the transmission method – experimental studies," a monograph from the Opole University of Technology, Opole 2023.
6. Participation in the 56th Interuniversity Metrology Conference, Kalisz-Gołuchów, September 18-20, 2024. Presentation "Theoretical foundations of determining Thermal Diffusivity – Selected Aspects."
7. Participation in the 57th Inter-University Conference of Metrologists under the patronage of the Rector of the Poznań University of Technology and the President of the Central Office of Measures, Committee on Electronics and Telecommunications and the Committee on Electrical Engineering of the Polish Academy of Sciences, Poznań, September 22-24, 2025.
8. Participation in the Thermography and Infrared Thermometry conference. Lodz University of Technology, September 23–25, 2025. Paper "Determination of Thermal Diffusivity of Solids Using the Long Pulse Method by Fitting the Temperature Curve to a Theoretical Model," by T. Kasprzak and S. Gryś.

Publication activity:
1. "Theoretical Approaches to the Heating of an Extensive Homogeneous Plate with Convective Cooling" by Paweł Jabłoński, Tomasz Kasprzak, Sławomir Gryś, Waldemar Minkina, Energies 2025, Vol. Issue 18, 4785, https://doi.org/10.3390/en18174785, 140 pts.
2. "Detection of Defects in Homogeneous Materials by Active Infrared Thermography" by Sławomir Gryś, Olga Kołecka, Tomasz Kasprzak, Paweł Jabłoński, Adam Jakubas Waldemar Minkina, Mariola Ścisłowska, Przegląd Elektrotechniczny (70 points), article accepted for publication.
3. "Long pulse method for determining the thermal diffusivity of solids by matching temperature curve to the theoretical model." Authors: Tomasz Kasprzak, Paweł Jabłoński, Sławomir Gryś, Waldemar Minkina. Quantitative InfraRed Thermography Journal, - in review. (140 points)

Other:
In 2024-2025, member of the research team in the project "Standardization of defect dimensioning procedure using active infrared thermography" PM-II/SP/0003/2024/02, financed by the Minister of Education and Science.
Member of the scientific committee of the 57th Inter-University Scientific Conference (MKM), Poznań 2025.

2. Mateusz Rak, 4th-year PhD student

Conference participation:
1. Active participation in the international conference "Forecasting in the Power Industry," PE2023, April 17, 2023
Publication activity: 1. Rak M., Najgebauer M., Jędryka J., "3D Rapid Prototyping Technologies in the Power Industry," Przegląd Elektrotechniczny, No. 11/2023, https://doi.org/10.15199/48.2023.11.44
2. Rak M., Najgebauer M., Jędryka J., et al. (2025). Analysis of the dielectric strength of selected materials produced using 3D printing technology. JoE360, 1(1/25), 15-22. https://doi.org/10.5604/01.3001.0055.1360
3. Bień B, Grobelak A, Bień J, Sławczyk D, Kozłowski K, Wysokowska K, Rak M. Dry Anaerobic Digestion of Selectively Collected Biowaste: Technological Advances, Process Optimization and Energy Recovery Perspectives. Energies. 2025; 18(17):4475. https://doi.org/10.5604/01.3001.0055.1360
4. Madeła M, Zawieja I, Rak M. Decarbonizing Wastewater Systems: Thermal Energy Recovery from Sludge. Energies. 2025; 18(21):5726. https://doi.org/10.3390/en18215726

Other: 2023-2024 - executive and design role in research project in collaboration with the other Faculty of CUT GeneInUse research group, entitled: "Creation of a 1:1 scale model of a real-life mite trap for bees." The project was completed thanks to funding awarded by the committee based on Order No. 79/2021 introduced by the Rector of the Częstochowa University of Technology.

Patent application number: P.450147

Certificates and training:
1. Certificate no.: 26535 confirming programming skills in C/C++ (June 19-26, 2017);
2. Certificate of participation in the training entitled: "3D Printing: Application for Research and Application Purposes" (October 27, 2023);
3. Certificate of completion of a course in the use of Matlab Circuit Simulation Onramp software, January 2, 2025;
4. Certificate of completion of a course in the use of MATLAB Onramp software, January 4, 2025;

5. SEP Qualification Certificate authorizing the operator to operate devices, installations, and networks in a Supervision and Operations position (D/113/G1/1010/2022, E/113/G1/1011/2022).

2. materials engineering

Achievement Description

1. Sebastian Stambuła, 3rd-year PhD student

Conference participation:
1. 8th International Scientific Conference "Science 2 Business" – paper presentation – March 8, 2024, Częstochowa.
2. APMME 2024 – paper presentation – October 18, 2024, Częstochowa.
3. ICIR EUROIVENT 2025 – paper presentation – September 8–May 9, 2025, Romania.
4. 46th Student Scientific Conference – paper presentation – June 5, 2025, Częstochowa.
5. Meeting of the Diagnostic Imaging Section as part of the 21st Silesian Medical Physics Seminar of the Polish Society of Physics – paper presentation – May 16, 2025. Wisła

Publication activity:
1. S. Stambuła, M. Nabiałek, P. Paszta, M. Nabiałek, P. Pietrusiewicz, F. Somidin, B. Jeż, (2025), Process of Magnetization in Strong Magnetic Fields of Amorphous Fe-Based Alloys, Acta Physica Polonica A, 147, pp. 3-4.
2. S. Stambuła, K. Jeż, M. Major, R.M. Said, P. Vizureanu, M. Nabiałek, B. Jeż, (2025), Research on Magnetic Anisotropy in Amorphous Materials with Soft Magnetic Properties, Acta Physica Polonica A, 147, pp. 3-4.
3. M. Nabialek, P. Postawa, P. Pietrusiewicz, K.A. Razak, S. Walters, S. Stambuła, B. Jeż, (2025), The Infuence of Structural Relaxation on the Holstein-Primakof Paraprocess, Acta Physica Polonica A, 147, 3.
4. B. Jeż, S. Stambula, O. Kukula, J.J. Wyslocki, N.R.A. Razak, L.R. Manea, M. Nabialek, (2025), Share of Additional Losses in Total Core Losses in the Remagnetization Process of Amorphous FeB-Based Alloys, Acta Physica Polonica A, 147, 3.
5. T. Aydin, M. Nabialek, S. Stambuła, O. Kukuła, B. Jeż, Structure and Magnetic Properties of a Rapidly Cooled Alloy based on FeB, Book of Abstracts Euroivent ICIR 2025 International Conference of Innovative Reserch, 2025, Lasi Romania, 34.
6. S. Stambuła, Massive amorphous materials – methods for producing an alloy with the chemical composition (Fe92.5Si2.5Hf2.5Nb2.5)80B20 – article under review.
7. J. Kidon-Szołtysek, A. Adamczyk-Kotwica, M. Biegała, M. Brodecki, W. Ciszek, M. Janik, M. Kijonka, Ł. Kapek, A. Klimas, W. Piłat, S. Stambuła, M. Szewczuk, L. Wojciuch, P. Wołowiec, A. Woźnica, Recommendations of the Imaging Diagnostics Section of the Polish Society of Medical Physics: Quality control tests of devices used in general digital radiography – basic tests: Medical Engineer and Physicist: Recommendations of the Polish Society of Medical Physics, ISSN 3071-7922, 2024, no. 1. 38-23.
8. J. Kidon-Szołtysek, M. Biegała, M. Brodecki, Ł. Kapek, M. Kijonka, W. Piłat, M. Szewczuk, P. Wołowiec, S. Stambuła, L. Wojciuch, A. Woźnica, Recommendations of the Diagnostic Imaging Section of the Polish Society of Medical Physics: Quality control tests for devices used in fluoroscopy (including interventional radiology) - basic tests: Medical Engineer and Physicist: Recommendations of the Polish Society of Medical Physics, ISSN 3071-7922, 2024, no. 1, pp. 77-102.
9. S. Stambuła, CBCT quality control in dentistry - key aspects and importance in clinical practice (Abstract): Medical Engineer and Physicist: , ISSN 2300-1410, 2025, no. 14, 118
10. S. Stambula, M. Płomińska, J. Paris, P. Jankowski, Method for the Analysis of Mean Glandular Doses Displayed by a Mammogram, Taking into Account Corrections from Specialized Tests: Medical Engineer and Physicist: ISSN 2300-1410, No. 4, 327-333

Other:
Patent Application No. P.452537

2. Olga Kędzia, 3rd-year PhD student

Conference Participation:
1. 34th International Conference on Metallurgy and Materials METAL 2025, Brno, May 21-23, 2025 – poster: "A review of ceramic biomaterials used in bone tissue engineering" – poster session
2. XLVI Student Scientific Conference, "Innovative Potential in Materials Engineering and Production Management," Częstochowa University of Technology, June 5. 2025 – paper: "Synthesis of Porous Biomaterials Based on Bioglass and Calcium Carbonate" – presented paper awarded third place
3. 5th International Multidisciplinary Conference of Doctoral Students of the University of Szczecin "MKDUS 2.0", entitled "Faces of Reality – Sciences Facing the Complexity of the World" – online – June 25, 2025 – paper: "The Potential of Plant-Based Bioraw Materials in the Technology of Foaming Bioactive Glasses" – presented paper
4. 7th International Scientific Conference of the Smart City Forum "Science to Business", entitled 'Woman between Private and Public Spaces', Częstochowa University of Technology, March 8, 2024 – paper: "Inventive Women – On Inventions That Changed Our Reality" – paper presented

5. 5th Festival of Social Communication “Three Worlds – The Real World, The Virtual World, The World of Work”, 3rd edition, April 3, 2025 – PhD student discussion panel
6. 10th International Scientific Conference of the Smart City Forum “Science to Business”, entitled “Housing as a Human Right”, Częstochowa University of Technology, May 27, 2025 – paper: “Glass in Housing” – paper presented

Publication activity:
1. Olga Kędzia, Małgorzata Lubas, Agata Dudek, ‘Glass and Glass-Ceramic Porous Materials for Biomedical Applications’. System Safety: Human - Technical Facility - Environment, 2023, 5(1), pp. 302–310, OPEN ACCESS, DOI: https://doi.org/10.2478/czoto-2023-0033
2. Olga Kędzia, Małgorzata Lubas, Agata Dudek, ‘Bioactive Coatings and the Safety of Using Metal Implants’, System Safety: Human - Technical Facility - Environment, 2024, 5(1), pp. 227-238, OPEN ACCESS, DOI: http://dx.doi.org/10.2478/czoto-2024-0025
3. Olga Kędzia, Małgorzata Lubas, Agata Dudek, Jarosław Jasiński, ‘Preparation and characterization of novel foamed porous glass-ceramics on the basis of bioglass 45S5’. Scientific Reports, 2024, 14, OPEN ACCESS, DOI: http://dx.doi.org/10.1038/s41598024-82224-x
4. Olga Kędzia, Paweł Liszaj, ‘The use of sorbents in CO2 capture systems and in the neutralization of petroleum substances during the removal of the effects of local hazards’, Monograph of the Częstochowa University of Technology entitled "Innovative Solutions in Environmental Engineering and Energy - A Sustainable Development Perspective," 2024, DOI: https://doi.org/10.17512/CUT/9788365976062
5. Olga Kędzia, Małgorzata Lubas, Agata Dudek, "A review of ceramic biomaterials used in bone tissue engineering," Conference monograph: 34th International Conference on Metallurgy and Materials, Brno, 2025, DOI: 10.37904/metal.2025.5149

Articles accepted for publication:
1. "Synthesis of porous biomaterials based on bioglass and calcium carbonate," Conference monograph, SKN, Częstochowa University of Technology, 2025 Authors: Olga Kędzia, Małgorzata Lubas, Agata Dudek Publication deadline: end of 2025 Year
2. ‘Potential of plant-derived biomaterials in the technology of foaming bioactive glasses’, Post-conference monograph MKDUS 2.0 – Young Scientists, University of Szczecin Authors: Olga Kędzia Publication deadline: Q2 2026
3. ‘Applicative potential of bioactive glass materials in the context of military medicine’, Materials Research Proceedings ISSN 2474-395X Authors: Olga Kędzia, Małgorzata Lubas, Agata Dudek Publication deadline: by the end of 2025

Other:
Activities in the Doctoral Student Government, active participation in the Engineer's Day at the Faculty of Production Engineering and Materials Technology on March 4, 2024

2. Karolina Kutynia, graduate

Conference Participation:
1. APMME 2021 – Poster Conference – February 19, 2021, Częstochowa
2. Physics of Magnetism 2021 (PM’21) – June 28 – July 2, 2021
3. APMME 2022 – September 23, 2022, Częstochowa
4. Physics of Magnetism 2023 (PM’23) – June 26 – June 30, 2023, Poznań
5. APMME 2024 – October 18, 2024 Częstochowa

Publication activity:
1. K. Kutynia, P. Gębara, Tuning of the Structure and Magnetocaloric Effect of Mn1−xZrxCoGe Alloys (Where x = 0.03, 0.05, 0.07, and 0.1), Materials 2021, 14(11), 3129; https://doi.org/10.3390/ma14113129
2. K. Kutynia, P. Gębara, A. Przybył, The Structure and Magnetocaloric Effect of MnCoGe Alloy Modified by Nb, Arch. Metall. Mater. 67 (2022), 3, 879-883; https://doi.org/10.24425/amm.2022.139678
3. P. Gębara, M. Gębara, K. Kutynia, A. Owczarek, A. Przybył, Visualization of the Lorentz Force Using Fractal Structures, Acta Phys. Pol. A. No. 1 Vol. 142 (2022), doi: 10.12693/AphysPolA.142.141
4. A. Przybył, I. Wnuk, J. Wysłocki, K. Kutynia, M. Kaźmierczak, M. Rychta, P. Gębara, Magnetic Interactions and Coercivity Mechanism in Nanocrystalline Nd–Fe–B Ribbons with Nb Addition, Acta Physica Polonica A, 2023, 144(5), pp. 333–336, https://doi.org/10.12693/APhysPolA.144.333
5. K. Kutynia, A. Przybył, M. Gębara, M. Rychta, I. Wnuk, P. Gębara, Critical Behavior Studies in the Vicinity of the Curie Temperature in the MnCoGe Alloy, Acta Physica Polonica A, 2023, 144(5), pp. 329–332, https://doi.org/10.12693/APhysPolA.144.329
6. K. Kutynia, A. Przybył, P. Gębara, The Effect of Substitution of Mn by Pd on the Structure and Thermomagnetic Properties of the Mn1−xPdxCoGe Alloys (Where x=0.03, 0.05, 0.07 and 0.1), Materials, 2023, 16(15), 5394, https://doi.org/10.3390/ma16155394

7. K. Kutynia, A. Przybył, P. Gębara, Structure and Magnetic Properties of the Magnetocaloric MnCoGe Modified by W, Acta Physica Polonica A, 2024, 146(1), pp. 70–75, https://doi.org/10.12693/APhysPolA.146.70

Other:
Employed at the institution after obtaining her doctoral degree.

3. automation, electronics and electrical engineering

Achievement Description

The scientific discipline of Automation, Electronics, Electrical Engineering, and Space Technologies is not very popular during the recruitment phase. During the evaluation period, we had two recruitment rounds in which there were no candidates for the doctoral school, and in two other rounds, PhD students were either removed from the list of PhD students due to non-compliance, withdrew, or failed to submit their doctoral dissertations on time.

1. Tomasz Kasprzak, 4th-year PhD student

Conference participation:
1. Participation in the 53rd Inter-University Conference of Metrologists, Warsaw Central Office of Measures, September 13-15, 2021, presentation and paper "Noise Reduction Measurements at a Selected Workstation Using a Sound-Absorbing Screen," Opole University of Technology monograph "Metrology. Theory and Practice," Opole 2021.
2. Participation in the 6th Scientific Conference "Social Responsibility of Property Managers in the Smart City Concept – "Science 2 Business," Częstochowa, May 26-27, 2022, presentation "Counteracting the Digital Exclusion of Seniors."
3. Participation in the 14th Scientific and Technical Conference "Fundamental Problems of Metrology", Gliwice, June 6, 2022, presentation "Verification of the ability to generate sinusoidal thermal excitation in non-destructive testing."
4. Participation in the 54th Interuniversity Metrology Conference, Kielce-Masłów, September 21-23, 2022. Presentation and paper "Non-destructive testing of composite materials using active infrared thermography," a monograph from the Opole University of Technology, "Metrology: Research and Applications," Opole 2022.
5. Participation in the 55th Interuniversity Metrology Conference, Wrocław, September 20-22, 2023. Presentation and paper "Application of active infrared thermography to determine thermal properties of materials using the transmission method – experimental studies," a monograph from the Opole University of Technology, Opole 2023.
6. Participation in the 56th Interuniversity Metrology Conference, Kalisz-Gołuchów, September 18-20, 2024. Presentation "Theoretical foundations of determining Thermal Diffusivity – Selected Aspects."
7. Participation in the 57th Inter-University Conference of Metrologists under the patronage of the Rector of the Poznań University of Technology and the President of the Central Office of Measures, Committee on Electronics and Telecommunications and the Committee on Electrical Engineering of the Polish Academy of Sciences, Poznań, September 22-24, 2025.
8. Participation in the Thermography and Infrared Thermometry conference. Lodz University of Technology, September 23–25, 2025. Paper "Determination of Thermal Diffusivity of Solids Using the Long Pulse Method by Fitting the Temperature Curve to a Theoretical Model," by T. Kasprzak and S. Gryś.

Publication activity:
1. "Theoretical Approaches to the Heating of an Extensive Homogeneous Plate with Convective Cooling" by Paweł Jabłoński, Tomasz Kasprzak, Sławomir Gryś, Waldemar Minkina, Energies 2025, Vol. Issue 18, 4785, https://doi.org/10.3390/en18174785, 140 pts.
2. "Detection of Defects in Homogeneous Materials by Active Infrared Thermography" by Sławomir Gryś, Olga Kołecka, Tomasz Kasprzak, Paweł Jabłoński, Adam Jakubas Waldemar Minkina, Mariola Ścisłowska, Przegląd Elektrotechniczny (70 points), article accepted for publication.
3. "Long pulse method for determining the thermal diffusivity of solids by matching temperature curve to the theoretical model." Authors: Tomasz Kasprzak, Paweł Jabłoński, Sławomir Gryś, Waldemar Minkina. Quantitative InfraRed Thermography Journal, - in review. (140 points)

Other:
In 2024-2025, member of the research team in the project "Standardization of defect dimensioning procedure using active infrared thermography" PM-II/SP/0003/2024/02, financed by the Minister of Education and Science.
Member of the scientific committee of the 57th Inter-University Scientific Conference (MKM), Poznań 2025.

2. Mateusz Rak, 4th-year PhD student

Conference participation:

1. Active participation in the international conference "Forecasting in the Power Industry," PE2023, April 17, 2023
Publication activity: 1. Rak M., Najgebauer M., Jędryka J., "3D Rapid Prototyping Technologies in the Power Industry," Przegląd Elektrotechniczny, No. 11/2023, https://doi.org/10.15199/48.2023.11.44
2. Rak M., Najgebauer M., Jędryka J., et al. (2025). Analysis of the dielectric strength of selected materials produced using 3D printing technology. JoE360, 1(1/25), 15-22. https://doi.org/10.5604/01.3001.0055.1360
3. Bień B, Grobelak A, Bień J, Sławczyk D, Kozłowski K, Wysokowska K, Rak M. Dry Anaerobic Digestion of Selectively Collected Biowaste: Technological Advances, Process Optimization and Energy Recovery Perspectives. Energies. 2025; 18(17):4475. https://doi.org/10.5604/01.3001.0055.1360
4. Madeła M, Zawieja I, Rak M. Decarbonizing Wastewater Systems: Thermal Energy Recovery from Sludge. Energies. 2025; 18(21):5726. https://doi.org/10.3390/en18215726

Other: 2023-2024 - executive and design role in research project in collaboration with the other Faculty of CUT GeneInUse research group, entitled: "Creation of a 1:1 scale model of a real-life mite trap for bees." The project was completed thanks to funding awarded by the committee based on Order No. 79/2021 introduced by the Rector of the Częstochowa University of Technology.

Patent application number: P.450147

Certificates and training:
1. Certificate no.: 26535 confirming programming skills in C/C++ (June 19-26, 2017);
2. Certificate of participation in the training entitled: "3D Printing: Application for Research and Application Purposes" (October 27, 2023);
3. Certificate of completion of a course in the use of Matlab Circuit Simulation Onramp software, January 2, 2025;
4. Certificate of completion of a course in the use of MATLAB Onramp software, January 4, 2025;
5. SEP Qualification Certificate authorizing the operator to operate devices, installations, and networks in a Supervision and Operations position (D/113/G1/1010/2022, E/113/G1/1011/2022).

4. information and communication technology

Achievement Description

1. Jarosław Bernacki, graduate

Conference participation:
SECRYPT 2023 (core B, 70 points) and article presentation (2): https://ksi.pcz.pl/imagine/

Publication activity:
1. J. Bernacki: A survey on digital camera identification methods, Forensic Science International: Digital Investigation (Elsevier), vol. 34, 300983 (2020);
2. J. Bernacki, R. Scherer: IMAGINE Dataset: Digital Camera Identification Image Benchmarking Dataset, International Conference on Security and Cryptography (SECRYPT) 2023, core B, 70 points.
3. J. Bernacki, R. Scherer: Fast Imaging Sensor Identification, Computational Collective Intelligence– 13th International Conference, Lecture Notes in Computer Science (Springer), vol. 12876, pp. 572-584 (2021), core B, 70 pts.;
4. J. Bernacki, R. Scherer: Digital forensics: a fast algorithm for a digital sensor identification, Journal of Information and Telecommunication (Taylor & Francis) (2022), DOI: 10.1080/24751839.2022.2058252 ;
5. J. Bernacki: Digital camera identification by fingerprint's compact representation, Multimedia Tools and Applications (Springer), vol. 81, no. 15, pp. 21641-21674 (2022);
6. J. Bernacki: Digital camera identification based on analysis of optical defects, Multimedia Tools and Applications (Springer), vol. 79, no. 3-4, pp. 2945-2963 (2020).
7. J. Bernacki, K. Costa, R. Scherer: Individual Source Camera Identification with Convolutional Neural Networks, 14th Asian Conference on Intelligent Information and Database Systems, Recent Challenges in Intelligent Information and Database Systems (Springer), pp. 45-55 (2022), core B, 70 pts.
8. J. Bernacki: On robustness of camera identification algorithms, Multimedia Tools and Applications (Springer), vol. 80, no. 1, pp. 921-942 (2021);
9. J. Bernacki: Robustness of digital camera identification with convolutional neural networks, Multimedia Tools and Applications (Springer), vol. 80, no. 19, pp. 29657-29673 (2021)

Other:
Third place in the national competition for the best engineering, master's, and doctoral theses organized by TRUMPF

Huettinger: https://przeglad-techniczny.pl/w-warszawie-wyrozniono-autorow-najlepszych-prac-dyplomowych-w-polsce/

2. Weronika Folwarska, 2nd-year PhD student

Conference participation:
FORUM 25th 10th Science 2 Business Conference: Housing as a Human Right, held at the Częstochowa University of Technology on May 27-28, 2025.

Publication activity:
1.S. Iserte, I. Martín-Álvarez, K. Rojek, J. I. Aliaga, M. Castillo, W. Folwarska, A. J. Peña: "Resource optimization with MPI process malleability for dynamic workloads in HPC clusters," Future Generation Computer Systems, Elsevier, 140 points, publication scheduled for 2026.
https://doi.org/10.1016/j.future.2025.107949

Other:
1. Three-month research internship at the Barcelona Supercomputing Center (BSC) in Barcelona 2. Member of the Organizing Committee of the FORUM 25th 10th Scientific Conference "Science
2 Business: Housing as a Human Right," held at the Częstochowa University of Technology on May 27-28, 2025.
3. Leading workshops on the use of artificial intelligence and content and data analysis in terms of rights and licenses, including: including:
- basics of proper command and prompt formulation,
- comparison of various models (e.g., ChatGPT, Grok, Gemini),
- image analysis (including reverse engineering), - copyright and licensing issues,
- issues related to the legal acquisition of graphic materials.

4. Access to computing resources:
Access to the "Welcome to the RES - Red Española de Supercomputación" computing grant, enabling continued collaboration with the Barcelona Supercomputing Center and further research.
Thanks to supervisor's support under the Cyfronet computing grant, received access to specialized hardware architecture used in my tests and research.

3. Paweł Bratek, graduate

Conference participation:
1. Optimizing the DFS-based strategy for efficient execution of counting queries in machine learning applications. ISD 2025, Serbia, Belgrade;
2.Boosting performance of counting queries in machine learning applications with a ccNUMA-aware implementation. Euro-Par 2025, Germany, Dresden
3.Parallel Auto-Scheduling of Counting Queries in Machine Learning Applications on HPC Systems, Euro-Par 2023, Cyprus, Limassol
4.Towards multi-threaded execution of counting queries in machine learning applications, PPAM 2022, Poland, Gdańsk
5.Parallelization and auto-scheduling of data access queries in ML workloads. Euro-Par 2021, Online
6.Heterogeneous Voltage Frequency Scaling of Data-Parallel Applications for Energy Saving on Homogeneous Multicore Platforms, Euro-Par 2021,

Publishing activity:
1. P. Bratek, L. Szustak, J. Zola, Boosting performance of counting queries in machine learning applications with a ccNUMA-aware implementation, In: Proc. Euro-Par 2025: Parallel Processing Workshops, accepted for publication, [140 points]
2. M. Lawenda, L. Környei, F. C. C. Galeazzo, P. Bratek, Evaluating AMD EPYC CPU architectures on CFD applications, Future Generation Computer Systems, 2025, [140 points]
3. P. Bratek, L. Szustak, Optimizing the DFS-based strategy for efficient execution of counting queries in machine learning applications, In: Proc. 33rd International Conference on Information System Development, 2025, DOI:10.62036/ISD.2025.71 [140 points]
4. P. Bratek, L. Szustak, J. Zola, Parallel Auto-Scheduling of Counting Queries in Machine Learning Applications on HPC Systems, In: D. Zeinalipour et al. (ed.), Euro-Par 2023: Parallel Processing Workshops. Lecture Notes in Computer Science, vol. 14352. Springer, 2024, [140 points]
5. P. Bratek, L. Szustak, R. Wyrzykowski, T. Olas, Reducing Energy Consumption Using Heterogeneous Voltage Frequency Scaling of Data-Parallel Applications for Multicore Systems, Journal of Parallel and Distributed Computing, vol. 175, pp.

121–133, 2023, [100 points]
6. P. Bratek, L. Szustak, J. Zola, Parallelization and auto-scheduling of data access queries in ML workloads, In: Proc. Euro-Par 2021: Parallel Processing Workshops. Lecture Notes in Computer Science, vol. 13098. Springer, 2022, [140 points]
7. P. Bratek, L. Szustak, R. Wyrzykowski, T. Olas, T. Chmiel, Heterogeneous Voltage Frequency Scaling of Data-Parallel Applications for Energy Saving on Homogeneous Multicore Platforms, In: Proc. Euro-Par 2021: Parallel Processing Workshops. Lecture Notes in Computer Science, vol. 13098. Springer, 2022, [140 points]
8. M. Wybraniek-Kujawa, P. Gepner, P. Bratek, Human personality in IT projects, Procedia Computer Science, vol. 207, 2022, [70 points]
9. L. Szustak, R. Wyrzykowski, K. Halbiniak, P. Bratek, Toward Heterogeneous MPI plus MPI Programming: Comparison of OpenMP and MPI Shared Memory Models, In: Proc. Euro-Par 2019: Parallel Processing Workshops. Lecture Notes in Computer Science, vol. 11997. Springer, 2020, [140 points]
10. L. Szustak, P. Bratek, "Performance portable parallel programming of heterogeneous stencils across shared-memory platforms with modern Intel processors," International Journal of High Performance Computing Applications, vol. 33(3), 2019, [70 points]

Other:
Participation in research projects
• "PIONIER-LAB – National Platform for Integration of Research Infrastructures with Innovation Ecosystems." Development of a course on the use of Python and the MPI standard in HPC computing
• "Portable Parallel Programming for Massively Multi-Core Architectures and Self-Adaptive Applications," funded by the National Science Centre under the SONATA 13 competition;

Completion of certified training
• Building LLM Applications with Prompt Engineering, NVIDIA, 2025
• Building RAG Agents with LLMs, NVIDIA, 2025
• AgilePM for Scrum Foundation, APMG International, 2024
• Fundamentals of Deep Learning, NVIDIA, 2023
• Hybrid Programming in HPC – MPI + X, PRACE 2022
• Advanced MPI, PRACE, 2021 • Introduction to MPI, 2021.

5. management and quality studies

Achievement Description

1.Michał Kot, 2nd year PhD student
Participation in international conferences:
1.Social Sciences International Research Conference, Durban, South Africa, November 6-7, 2025., Topic: Migration and employment evolution in Central European countries.
2.5th Global Conference on Entrepreneurship and Economy in an Era of Uncertainty Seoul, South Korea, September 24-26, 2025, Topic: Evaluating and Ranking Industry 4.0 Technologies indicators for Agile and Resilient Business Models with MCDM.
3.4th Global Conference "Enterpreneurship and Economy in an Era of Uncertainty 2024" November, 2024, Da Nang, Vietnam, Topic: Untraveling the Challenges for Minority Entrepreneurs Affecting Innovative Capabilities and Financial Performance.
4.4th International Interdisciplinary Scientific Conference "Digitalization and Sustainability for Development Management: Economic, Social, and Environmental Aspects" September 6, 2024, London, UK., Topic: The CPK Airport as The Chance for The Air Traffic Development for Poland.

Publishing activity:
1.Kot, M. (2025, March). The Role of Foreign Workers in the Evolution of Employment in the Construction Sector: A Comparative Analysis of Selected Central European Countries. In Forum Scientiae Oeconomia, 13(1), 21-36.
2.Kot, M. (2025). Energy Transition of Poland Supports the Dynamic Development of Photovoltaics - Quantitative Analysis. Acta Montanistica Slovaca, 30(1), 209-223.
3.Grondys, K., & Kot, M. (2025). Impact of global supply chain complexity on the individual performance of companies. Engineering Management in Production and Services, 17(2), 63-77.
4.Haque, A.u., Kaur, H., Kot, M. (2025). Unraveling the Challenges for Minority Entrepreneurs Affecting Innovative Capabilities and Financial Performance. In The Global Conference on Entrepreneurship and the Economy in an Era of Uncertainty, Acronym: EEEU 2024 C (pp. 473-485). Springer, Singapore.
5. Urbański, M., Kaur, H., Yamoah, F., & Kot, M. (2024). Gender dynamics in knowledge Hiding and occupational stress on employee performance. Economics & Sociology, 17(4), 29-42.
6.Suparna, G., Kot, M., Dacko-Pikiewicz, Z., Riana, I. G., Rihayana, I. G., & Arsha, I. M. R. M. (2024). Cultivating creativity: strategies for enhancing innovative behavior in small and medium-sized enterprises. Intellectual Economics, 18(2), 429-449.

Other:
Submitting an application for a Foundation for Polish Science Scholarship, START Program 2026 - under evaluation.

2. Anna Nowacka, graduate,
Participation in international conferences:
BESD International Scientific and Practical Conference Business Ecosystems: Sustainable Development 2025, February 3-7, 2025.
KES International Conference, September 6-8, 2023. Speaker at the conference with the article: Digital transformation in creating an employee learning environment. SIMDTE conference on May 2-3, 2023. Speaker at the conference with the article: Impact of ICT tools on knowledge management in enterprises.
17th Conference on Computer Science and Intelligence Systems on September 4-7, 2022, in Sofia, Bulgaria. The conference is indexed in category B of the CORE ranking. Speaker at the conference with the article: The impact of the multi-variant remote work model on knowledge management in enterprises. Applied tools.

Publication activity:
1. Jelonek D., Nowacka A., Pawełoszek I., Crossing technological boundaries: the contribution of artificial intelligence to the development of Industry 5.0 [in:] Managing organizations in the information society. Transformations-projects-processes. Scientifically edited by Jolanta Trębacz-Walas, Małgorzata Zakrzewska, Scientific Society of Organization and Management. Organizer's House, Toruń 2024, pp. 27-40.
2. Majczyk J., Nowacka A., Ostęp J., Nedelko Z., Health-Promoting Leadership Interventions, Conference Proceedings of the 8th FEB International Scientific Conference 2024, Challenges in the Turbulent Economic Environment and Organizations' Sustainable Development, May 21, 2024, University of Maribor, Faculty of Economics and Business.
3. Nowacka A., The Use of Artificial Intelligence in Decision-Making Processes in Enterprises [in:] Innovative Enterprise in the Times of Digital Transformation. Edited by Tomasz Turka, Częstochowa University of Technology Publishing House, Częstochowa 2024, pp. 32-47.
4. Nowacka A., GIG Economics as a New Model of Work in the Light of ICT Tools [in:] Computer Science in Management. Edited by Helena Dudycz, Marcin Hernes, Maciej Pondel, and Artur Rot. Wrocław University of Economics Publishing House, Wrocław 2023, pp. 200-213.
5. Nowacka A., Digital transformation in creating employee learning environments [in:] Procedia Computer Science, Volume 225, 2023, pp. 872-881.
6. Nowacka A., Impact of ICT tools on knowledge management in enterprises. Remote working model [in:] Proceedings of the International Conference on Sustainable Innovations in Management in the Digital Transformation Era (SIMDTE 2023), Bahrain, Taylor and Francis Books India Pvt Ltd., pp. 63-70,
7. Nowacka A., Impact of digital technologies on the model of developing competences of generation Y. Conditions of COVID-19 [in:] Entrepreneurship and competitiveness in the era of digital transformation. Edited by Damian Dziembek and Leszek Ziora, Częstochowa University of Technology Publishing House, Częstochowa 2022, pp. 33-46.
8. Nowacka A., Rzemieniak M., The Impact of the VUCA Environment on the Digital Competences of Managers in the Power Industry, Energies 2022, Vol. 15, Issue 1. 1.
9. Nowacka A., The Impact of the VUCA Environment on the Concept of Action Learning. Assessment of Generation Y Representatives [in:] Dilemmas of Contemporary Economic Informatics. Theory and Practical Applications. Edited by Cezary Stępniak. Częstochowa University of Technology Publishing House, Częstochowa 2022, pp. 24-37.
10. Nowacka A., Jelonek D., The Impact of the Multi-Variant Remote Work Model on Knowledge Management in Enterprises. Applied Tools, Proceedings of the 17th Conference on Computer Science and Intelligent Systems, FedCSIS 2022, pp. 827-835.

Other:
Research Projects: National Science Center – Sonata-18, Implementing Unit: University of Warsaw, Faculty of Management Research
Project: Health-Promoting Leadership: Conditions, Practice, and Effects. Role in the Project: Scholarship Holder.

Honorable Mention Aishwarya Memorial – 2024 Young Scientist Honorable Mention awarded by the Shanti Educational Research Foundation in India Social Activities and Outreach Member of the Scientific Society for Economic Informatics (NTIE)

3. Anna Ziobrowska, 4th year PhD student

Conference Participation:
1. 4th Global Conference on Entrepreneurship and Economy in an Era of Uncertainty – November 27-29, 2024, Da Nang, Vietnam
2. 9th Conference "Dilemmas and Challenges of Improving Organizational Management", October 19, 2023, Częstochowa

3. National Conference of Young Scientists – The Perspective of Young Scientists, April 15-16, 2023, Krakow
4. 3rd International Conference on Research in Human Resource Management, February 17-19, 2023, Barcelona
5. National Conference of Young Scientists – New Challenges for Polish Science, December 3 and 11, 2022, Krakow

Publication activity:
1. Ziobrowska, A., Starostka-Patyk, M. (2025). Exploring the AI Revolution in Human Resource Management: Key Insights and Case Studies. Springer Proceedings in Business and Economics, Singapore. DOI: 10.1007/978-981-96-4116-1_56
2. Ziobrowska, A. (2023). How to take care of the effectiveness of recruitment processes in the era of a pandemic? Research Reviews of Częstochowa University of Technology. No. 52 (2023), pp. 180-192, ISSN: 2083-1560 DOI: 10.17512/znpcz.2023.4.13, https://znz.pcz.pl/
3. Ziobrowska, A. (2023). Agile PhD Student – A Tool for Agile Management of Science. In: Issues Currently Raised by Young Scientists, ISBN 978-83-66772-28-1.
4. Ziobrowska, A. (2023). Marketing 5.0 – What's New in Science and Practice? In: Issues Currently Raised by Young Scientists, ISBN 978-83-66772-28-1.
5. Ziobrowska, A. (2022). Data-Driven Marketing in Talent Acquisition. 3rd International Conference on Research in HRM.
6. Ziobrowska, A., Starostka-Patyk, M. (2021). DPD Polska Branding Identity Activities in the Era of a Pandemic. Supply Chain Management Journal, 12(2).ISSN 2069-5519

Other:
Courses, training and certificates
1.Harvard Business School – AI Essentials for Business – 2025
2.Ernst & Young (EY) – Artificial Intelligence: Applied AI (Bronze Learning Badge) – 2025
3.Scrum.org – Professional Scrum Master I (PSM I) – 2025
4.PROSCI – Change Management Practitioner – 2024
5.Kozminski University - Agile and Agile Project Management Techniques - 2024.

6. environmental engineering, mining and energy

Achievement Description

1. Klaudia Całus-Makowska, 4th-year PhD student

Conference participation:
1. 3rd University-wide Seminar: Physicochemical Methods in Scientific Research, Sosnowiec, April 17, 2019 – poster.
2. 6th National Session of Student Research Clubs, Szczecin, November 27–28, 2020 – poster.
3. International NanoOstrava 2021 Conference - 7th Nanomaterials and Nanotechnology Meeting, Ostrava, May 17–20, 2021 – presentation.
4. 11th National Hydromicrobiology Conference "Aquatic Microorganisms - Threats and Hopes," June 9–11, 2021 – presentation.
5. 9th International Conference: Environmental Protection and Energy Conference, December 10, 2021 – presentation.
6. Scientific Conference "Social Responsibility of Real Estate Managers in the Smart City Concept – Science 2 Business," Częstochowa, May 26–27, 2022 – keynote address.
7. International Conference: Environmental Protection and Energy Conference, December 9, 2022 – keynote address.

Publication activity:
1. Całus-Makowska, K., Binkowski, Ł. J., & Grobelak, A. (2025). Pharmaceutical residues in wastewater treatment plants in Poland: Removal efficiency and risk assessment. Journal of Environmental Management, 394, 127480. https://doi.org/10.1016/j.jenvman.2025.127480
2. Całus-Makowska, K., Dziubińska, J., Grosser, A., & Grobelak, A. (2025). Application of the Fenton and photo-Fenton processes in pharmaceutical removal: New perspectives in environmental protection. Desalination and Water Treatment. https://doi.org/10.1016/j.dwt.2024.100949
3.Całus-Makowska, K., Grosser, A., Grobelak, A., Białek, H., & Siedlecka, E. (2024). Kinetic study of the simultaneous removal of ibuprofen, carbamazepine, sulfamethoxazole, and diclofenac from water using biochar and activated carbon adsorption, and TiO2 photocatalysis. Desalination and Water Treatment, 320, 100817. https://doi.org/10.1016/j.dwt.2024.100817
4.Całus-Makowska, K., Grosser, A., & Grobelak, A. (2023). Pharmaceutical contamination in wastewater treatment plants: occurrence, challenges in detection and insights on high-performance liquid chromatography as an effective analytical tool in environmental matrices — a review. Desalination and Water Treatment, 305, 129–154. https://doi.org/10.5004/dwt.2023.29789
5. Grobelak, A., Całus-Makowska, K., Jasińska, A., Klimasz, M., Wypart-Pawul, A., Augustajtys, D., Baor, E., Sławczyk, D., & Kowalska, A. (2024). Environmental Impacts and Contaminants Management in Sewage Sludge-to-Energy and Fertilizer Technologies: Current Trends and Future Directions. Energies, 17(19), 4983. https://doi.org/10.3390/en17194983
6.Całus-Makowska, K., Grobelak, A., & Kowalska, A. (2025). Toward decarbonization: Circularity in the water–energy–food

nexus. In T. A. Kurniawan & M. N. V. Prasad (Eds.), Climate Change Impacts on the Water-Energy-Food Nexus: Net Zero Emissions and Sustainability (pp. 425–436). Elsevier.
7. Grobelak, A., Kowalska, A., Baor, E., & Całus-Makowska, K. (2026). Warming climate and organic matter decomposition. In M. Pietrzykowski, F. C. Nunes & M. N. V. Prasad (Eds.), Climate Change and Soil Interactions: Drivers and Pathways for Sustainability (2nd ed., pp. 273–284). Elsevier.

Other:
"Wastewater and water treatment using biosorbents" (2025) Coordinator, research project of the GeneInUse Science Club. "Implementation of innovations in the energy and fertilizer processing of sewage sludge and biodegradable waste, reducing the negative environmental impact in a coastal tourist region" (2023) Project funded by the Norwegian Funds; participation in commissioned research.
"Innovative Technologies in Environmental Biotechnology" (2021–2022) Statutory research project of the Częstochowa University of Technology.
"Waste is also a resource – the Green Deal" (2021) "Student Research Clubs Create Innovation" program.
Commissioned research: "Implementation of innovations in the field of energy and fertilizer processing of sewage sludge and biodegradable waste, reducing the negative environmental impact in a coastal tourist region" (project no. NORW.19.01.01-22-0003/20), project leader

2. Paulina Popielak, graduate

Conference participation:
Participation in 3 scientific conferences

Publication activity:
Co-author of 4 high-ranking scientific publications in scientific journals (including Energiss, CRC Press Taylor & Francis Group DOI 10.1201/9781003336587-7, International Journal of Greenhouse Gas Control).

Other:
NAWA project entitled Carbon footprint reduction using CCS-CCU technology using bioadsorbents (acronym: BIOCO2), project number: PPI/APM/2019/1/00042/U/00001.

Internship at the Campus Bio-Medico University in Rome from July 6 to July 27, 2022.

Since September 2023, he has been working as a Data Analyst at Sphera, the world's largest corporation, a leading global provider of software, data, and consulting services in the areas of risk management and environmental, social, and corporate governance (ESG). She prepares datasets for the world's largest LCA database – the Managed Life Cycle Assessment Content Database (MLC DB). Initiated the pioneering implementation of datasets covering CO2 capture, utilization, and storage supply chains.

3. Aleksandra Wypart-Pawul, 4th-year PhD student

Conference participation:
1. Participation (online) in the 3rd International Conference on Strategies for Implementing the Green Deal: Water, Raw Materials, and Energy, and presentation of a paper entitled "Advanced Oxidation Processes in the Removal of Organic Pollutants," December 7, 2022.
2. Participation (online) in the 10th International Conference on Environmental Protection and Energy, and presentation of a paper entitled " The use of ozonation technology to remove selected pharmaceuticals from wastewater, Gliwice, December 9, 2022.
3. Participation in the conference "The Future of Water Treatment in Europe: Challenges and Prospects" organized by the ECODU Foundation, and presentation of a paper entitled "Removal of Micropollutants Using Plasma Technology," Częstochowa, March 11, 2023.
4. Participation in the FORUM '23 conference, the 7th International Scientific Conference on Smart, Green City. Residents' Environmental Awareness in the Smart City "Science 2 Business" Concept and presentation of a paper entitled "Removal of Micropollutants Using Plasma Technology", Częstochowa, May 24-26, 2023.
5. Participation (online) in the 11th International Conference on Environmental Protection and Energy and presentation of a paper entitled "Hybrid Solutions in Wastewater Treatment Based on the Use of MBR + AOP Reactors", Gliwice, December 8, 2023.
6. Participation (online) in the 4th International Conference on Strategies for the Implementation of the Green Deal: Water,

Raw Materials and Energy and presentation of a paper entitled "The Impact of Atmospheric Plasma on the Elimination of Selected Pharmaceuticals from Water", Krakow, December 15, 2023.
7. Participation in the Scientific Conference on Innovations in Ecological Engineering and presentation of a paper entitled "The Impact of Low-Temperature Plasma on Microorganisms", Białystok, December 26-29, 2023. June 28, 2024
8. Participation in the 5th International Conference on Strategies for the Implementation of the Green Deal: Water, Raw Materials, and Energy in the Green Transition and presentation of a paper entitled "Hybrid Methods for Removing Pharmaceuticals from Wastewater Using Cold Plasma," Krakow, November 27-29, 2024.

Publication activity:
1. Wypart-Pawul A., Grobelak A., Neczaj E. (2022), "Use of Ozonation Technology to Remove Selected Pharmaceuticals from Wastewater," Monograph: Contemporary Problems of Environmental Protection and Energy, pp. 36-49, ISBN 978-83-964116-3-1, Gliwice, February 2023
2. Wypart-Pawul, A., Neczaj, E., Grobelak, A. (2023), "Advanced Oxidation Processes for Removal of Organic Micropollutants from Wastewater" Wastewater. Desalination and Water Treatment, 305, 114–128. https://doi.org/10.5004/dwt.2023.29665
3. Wypart-Pawul A., Grobelak A., Neczaj E. (2024), Hybrid wastewater treatment methods based on the integration of membrane bioreactors and advanced oxidation processes, Monograph: Contemporary problems of energy and environmental protection 2023, pp. 69-79, ISBN 978-83-964116-4-8, Gliwice, July 2024
4. Wypart-Pawul A., Neczaj E., Grosser A., Grobelak A. (2024), Assessment of the effectiveness of atmospheric plasma on the removal of selected pharmaceuticals from water, Desalination and Water Treatment, vol. 320, https://doi.org/10.1016/j.dwt.2024.100600
5. Wypart-Pawul A., Augustajtys D., Baor E., Noszczyk W., The use of cold plasma in the degradation of organic micropollutants, Innovative solutions in environmental engineering and energy – the perspective of sustainable development, pp. 409-418. Częstochowa University of Technology Publishing House, editor: Iwona Zawieja, Częstochowa 2024, e-ISBN 978-83-65976-06-2, doi: 10.17512/CUT/9788365976062
6. Wypart-Pawul A., Augustajtys D., Baor E., Grobelak A., The impact of perhydrol addition on the removal efficiency of pharmaceuticals in the plasma treatment process, Published by Department of Technologies and Installations for Waste Management, Silesian University of Technologies, edited by Pikoń K., Lewandowski M.., pp353-360, Gliwice 2025, ISBN 978-83-964116-7-9
7. Wypart-Pawul, A., Grobelak, A., & Noszczyk, W. (2025). The effect of low-temperature plasma on microorganisms in water and wastewater. Archives of Environmental Protection, 51, 13–22. https://doi.org/10.24425/aep.2025.156005
8. Wypart-Pawul, A.; Karwowska, B.; Caban, R.; Grobelak,A. Cold Plasma-Induced Changes in Polyethylene Particles and Their Binding Affinity to Selected Pharmaceuticals. Molecules 2025, 30, 3756. https://doi.org/10.3390/molecules30183756

Other:
Grant Preludium-22, National Science Centre (NCN) "Assessment of the Impact of Cold Plasma (CP) on the Efficiency of Removing Selected Organic Micropollutants from Wastewater" - Project Manager, September 2024 - August 2027

7. mechanical engineering

Achievement Description

1. Lena Caban, graduate
Participation in conferences:
1. Caban L., Tyliszczak A., Geurts B.J. (2025). LES-ADM Accuracy Assessment via an Error-Landscape Approach, Proceedings of the ERCOFTAC Symposium on Engineering Turbulence Modeling and Measurements, 280-285.
2. Caban L., Tyliszczak A., Stéphane Abide, Domaradzki J.A. (2024). A very high-order compact difference method for wall-bounded flows, AIP Conference Proceedings, 3094:500008, AIP Publishing
3. Caban L., Tyliszczak A. (2023). High-order compact difference schemes with a spectral-like accuracy for differential equations containing higher order derivatives, AIP Conference Proceedings, 2849:450006, AIP Publishing.
4. Caban L., Tyliszczak A. (2023). LES-ADM modeling of auto-ignition and flame propagation in a periodic time-evolving nitrogen-diluted hydrogen jet, Proceedings of the European Combustion Meeting, 2646-2651.
5. Caban L., Tyliszczak A., Domaradzki J.A., Geurts B.J. (2023). Accuracy assessment of LES-ADM modeling of auto-ignition in a temporally evolving jet, Proceedings of the ERCOFTAC Symposium on Engineering Turbulence Modeling and Measurements, 523-528.
6. Bogusławski A., Wawrzak K., Caban L., Tyliszczak A. (2023). A turbulent combustion model based on the estimation of the subgrid reactants and temperature fields. Proceedings of the ERCOFTAC Symposium on Engineering Turbulence Modeling and Measurements, 576-581.

Publication activity: The publication includes 21 published and co-authored literature items. These include:
1. Caban L., Tyliszczak A. (2024). A Comparative Study of the Hydrogen Auto-Ignition Process in Oxygen–Nitrogen and Oxygen–Water Vapor Oxidizer: Numerical Investigations in Mixture Fraction Space and 3D Forced Homogeneous Isotropic Turbulent Flow Field. Energies, 17(17):4525 (IF: 3.2, MNiSW/MEiN: 140 points)
2. Wawrzak A., Caban L., Tyliszczak A., Mastorakos E. (2024). Numerical analysis of turbulent nitrogen-diluted hydrogen

flames stabilized by star-shaped bluff bodies. Applied Energy, 364:123075 (IF: 11.0, MNiSW/MEiN: 200 points)
3. Caban L., Tyliszczak A. (2023). Attenuating and enhancing properties of the approximate deconvolution method based on higher-order explicit and compact filters, Archives of Mechanics, 75(1-2):107-149 (IF: 1.2, MNiSW/MEiN: 100 points)
4. Caban L., Tyliszczak A. (2022). High-order compact difference schemes on wide computational stencils with a spectral-like accuracy, Computers and Mathematics with Applications, 108:23-140 (IF: 2.5, MNiSW/MEiN: 140 points)
Other:
Research projects
1. Project leader of the project entitled "Approximate Deconvolution Modeling of Turbulent Hydrogen iFlames," funded by the National Agency for Academic Exchange (NAWA), the 1998 program. Mieczysław Bekker, grant no. BPN/BEK/2023/1/00356.
2. Scholarship holder in the project entitled "Physics of turbulent diffusion flames behind non-streamlined bodies with variable geometry and wavy walls," funded by the National Science Centre (NCN), grant no. 2020/39/B/ST8/02802.

2. Piotr Górak, graduate Conference participation:
1. 11th International Conference DAYS OF CONCRETE 2021, Wisła, October 2021 – paper presented: Reducing the carbon footprint of bridge structures using material solutions for low-clinker concrete.
2. International concrete conference & exhibition ICCX Central Europe 2022. Warsaw, June 2021 – paper presented: Green construction means green cement.
3. 13th Central European Congress on Concrete Engineering (CCC2022), September 2022 in Zakopane – paper presented: Emissions category of concrete future benchmark for construction.
4. 19th INTERNATIONAL SCIENTIFIC-TECHNICAL CONFERENCE MATERIALS AND ENERGY SAVING TECHNOLOGIES CONSTRUCTIONS of OPTIMIZED ENERGY POTENTIAL, Częstochowa, October – paper presented: Management of selected waste materials in sustainable building.

Publication activity: These publications include 32 original and co-authored publications. These include:
1. Mofina P., Górak P., Concretes Used in Massive Structures – A Non-Obvious Material Approach, "Builder" 9 (302). DOI: 10.5604/01.3001.0015.9590.
2. Górak P., Chłądzyński S., Gaudy J., Low-Emission Cements in Dry Mixtures of Construction Chemicals. Part 4. Masonry and Plaster Mortars, Insulation, 10/2022.
3. Górak P., Chłądzyński S., Gaudy J., Low-Emission Cements in Dry Mixtures of Construction Chemicals. Part 5. Floor Underlayments and Concretes, Insulation, 1/2023.
4. Górak P., Postawa P., Lightweight ultracomposite aggregate – the idea of ecological and useful use of mineral and artificial waste as a concrete component. Road construction 2–3/2023

Other:
Patent for Lightweight Composite Aggregate, Patent No. 236670
Awards and distinctions:
1. Gold medal for Composite Lightweight Aggregates CLA - Innovative and ecological approach for waste management. IPITEx - International Intellectual Property, Invention, Innovation and Technology Exposition February 2 - February 6, 2020.
2. Gold Medal for the invention Lightweight Composite Aggregate made from recycling of ash and plastic waste. 2020 Kaohsiung International Invention and Design Expo; December 10-12, 2020 Kaohsiung, Taiwan
3. GOLD MEDAL Innovative composite aggregate made from recycling of ash and plastic waste - EURO INVENT 13 EDITION European exhibition of creativity and innovation May 2021 / IASI ROMANIA
4. SILVER MEDAL Innovative composite aggregate made from recycling of ash and plastic waste, 2021 iWorld Invention Competition May 29-31, 2021, Taiwan
5. GOLD MEDAL AWARD Innovative composite aggregate made from recycling of ash and plastic waste, Research &Learning Innovation Symposium Universiti Malaysia Perlis (UniMAP). July 14-15, 2021
6. SPECIAL AWARD - In recognition of excellent invention/innovation of Innovative composite aggregate made from recycling of ash and plastic waste
7. SILVER MEDAL - In recognition of Innovative Excellence Innovative composite aggregate made from recycling of ash and plastic waste, ASIE 2021 Oct 22-24, 2021Virginia, USA
8. SPECIAL AWARD for the invention Innovative composite aggregate made from recycling of ash and plastic waste, 2021 Kaohsiung International Invention & Design EXPO December 2-4, 2021 Kaohsiung, Taiwan
9. GOLD MEDAL for the invention Innovative composite aggregate made from recycling of ash and plastic waste, 2021 Kaohsiung International Invention & Design EXPO December 2-4, 2021 Kaohsiung, Taiwan
10. President's special award Katowice Special Economic Zone awarded to Częstochowa University of Technology for the groundbreaking solution "Lightweight composite aggregates CLA", whose authors are: PhD, DSc, Eng Przemysław Postawa, prof. PCz, PhD, Eng Piotr Górak, Eng. Jarosław Kret – SILESIAN INNOVATOR 20224

3. Piotr Kamiński, 4th-year PhD student
Conference participation:
2022: 25th Fluid Mechanics Conference (FMC2022) in Rzeszów, Presentation title: Numerical analysis of the influence of wall roughness on the turbulent boundary layer separation

2023: 4th PhD Students Seminar in Kroczyce, Presentation title: Numerical analysis of the effect of surface corrugation on the velocity field in a turbulent near-wall layer
2023: ANIMATE meeting in Biskupice, Presentation title: LES analysis of the influence of surface corrugation on the velocity field in a turbulent near-wall layer
2023: Final ANIMATE meeting in Zawiercie, Presentation title: Numerical analysis of the effect of surface corrugation on the velocity field in a turbulent near-wall layer
2024: Direct and Large Eddy Simulation Conference (DLES14) in Erlangen, Presentation title: LES of a turbulent boundary layer subjected to adverse and zero pressure gradient in a channel with a wavy wall
2024: 26th Fluid Mechanics Conference (FMC2024) in Warsaw.
Title of speech no. 1: Control of turbulent boundary layer separation using a sinusoidal-type wavy-wall
Title of speech no. 2: Machine learning-supported CFD optimization of heat transfer in a pipe with a corrugated wall shape.
2025: 95th Annual Meeting of GAMM (GAMM2025) in Poznań.
Title of the speech: Turbulent separation control on an airfoil-type surface using spanwise corrugation.

Publishing activity:
1. Kaminski, P., & Tyliszczak, A. (2022, November). Numerical analysis of the influence of wall roughness on the turbulent boundary layer separation. In Journal of Physics: Conference Series (Vol. 2367, No. 1, p. 012011). IOP Publishing.
2. Kamiński, P., Niegodajew, P., Dróżdż, A., Sokolenko, V., Tyliszczak, A., & Elsner, W. (2024). Numerical analysis of novel wavy wall based control of turbulent boundary layer separation. Aerospace Science and Technology, 149, 109167.
3. Kamiński, P., Li, Y., Wawrzak, K., Tyliszczak, A., & Noack, B. R. (2024, November). Machine learning-supported CFD optimization of heat transfer in a pipe with a corrugated wall shape. In Journal of Physics: Conference Series (Vol. 2899, No. 1, p. 012013). IOP Publishing.
4. Kamiński, P., Elsner, W., Tyliszczak, A., & Niegodajew, P. (2025). Sensitivity analysis of wavy wall performance in turbulent separation control: Effects of amplitude and period variations. Journal of Wind Engineering and Industrial Aerodynamics, 260, 106048.
5. Kamiński, P., Tyliszczak, A., Elsner, W., & Niegodajew, P. (2025). Turbulent separation control with a tilted wavy wall: A promising approach for energy savings in aerodynamic systems. Energy, 324, 135758.
6. Kamiński, P., Niegodajew, P., Tyliszczak, A., & Elsner, W. (2025). Turbulent separation control on an airfoil surface using a wavy wall. Physics of Fluids, 37(7).
Other:
Scholarship holder in the project: Development of a new passive flow control method based on in-depth analysis of near-wall physical phenomena, 2020/39/B/ST8/01449

ATTACHMENTS

Adequacy of the education program and individual research plans to the learning outcomes for qualifications at PRK level 8 and their implementation

No.	File type	Filename
1	Education programmes during the evaluation period	Programy_kształcenia_w_okresie_ewalu

Method of verifying learning outcomes for qualifications at PRK level 8

No.	File type	Filename
1	The method of assessing the learning outcomes for qualifications at level 8 of the PQF	procedura_weryfikacji_efektów_uczenia

Qualifications of academic teachers or research staff conducting education at the doctoral school

No.	File type	Filename
1	management and quality studies	Profiles_of_academic_teachers_NoZiJ.pdf
2	information and communication technology	Profiles_of_academic_teachers_ITT.pdf
3	environmental engineering, mining and energy	Profiles_of_academic_teachers_ISGE.pdf
4	automation, electronics, electrical engineering and space technologies	Profiles_of_academic_teachers_AEEiTK.pdf
5	mechanical engineering	Profiles_of_academic_teachers_I_mech.pdf
6	materials engineering	Profiles_of_academic_teachers_I_mat.pdf
7	automation, electronics and electrical engineering	Profiles_of_academic_teachers_AEEiTK.pdf

Quality of the recruitment process

No.	File type	Filename
1	The regulations of the doctoral school during the evaluation period	Regulamin_SD_w_okresie_
2	The compositions of the admissions committees during the evaluation period and the rationale for their selection with the aim of maintaining high admission standards	Komisje_rekrutacyjne_rekr
3	The admissions rules of the doctoral school during the evaluation period	Rekrutacja_w_okresie_ewa

Quality of scientific or artistic supervision and support for conducting scientific activities

No.	File type	Filename
1	Internal regulations that pertain to the midterm evaluation and that are in force during the evaluation period, such as evaluation rules and criteria	commision_for_mid-term_ewaluations_19_25_ang.pdf

STATEMENTS

- I hereby declare that the information contained in the self-assessment report is fully consistent with the factual and legal status.
- I hereby declare that the information contained in the self-assessment report in Polish and English is fully identical in substance.
- I hereby declare that the documents attached to the self-assessment report in Polish and English are fully identical in substance.

Signature Not Verified
Dokument podpisany przez Witold Elsner; Politechnika Częstochowska
Data: 2025.12.11 12:28:41 CET

Signature

AUTHORIZATIONS

Added files

Pełnomocnictwo_nr_301.2025.pdf

Resolution No. 282/2018/2019
of the Senate of Częstochowa University of Technology
of May 29, 2019

regarding: the curriculum at the Doctoral School of Częstochowa University of Technology

1. The Senate of Częstochowa University of Technology, pursuant to Article 28, Section 1, Item 12 of the Act of July 20, 2018 - The Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended), in conjunction with Article 291 of the Act of July 3, 2018 - Provisions introducing the Act - The Law on Higher Education and Science (Journal of Laws of 2018, item 1669, as amended), in an open vote, established the curriculum at the Doctoral School of Częstochowa University of Technology, in accordance with the Annex to this Resolution.

2. This resolution comes into effect on the date of its adoption.

Rector

Annex
to Resolution No. 282/2018/2019
of the Senate of the Częstochowa University of Technology
of May 29, 2019

Education Program at the Doctoral School of the Częstochowa University of Technology

The education program at the Doctoral School prepares students for research or research and development work, and in particular leads to the achievement of the intended learning outcomes at level 8 of the Polish Qualifications Framework in the following areas:
a) advanced knowledge:
• basic for the field related to the area of research conducted, encompassing the latest scientific achievements,
• detailed, corresponding to the area of research conducted, encompassing the latest scientific achievements;
b) skills related to the methodology and methodologies of conducting scientific research,
c) social competences related to scientific and research activities and the social role of the scientist.

The education program at the Doctoral School of the Częstochowa University of Technology is implemented in the following scientific fields/disciplines:

Fields of science	**Scientific disciplines**
Engineering and technical sciences	Automation, electronics, and electrical engineering Technical information technology and telecommunications Materials engineering Mechanical engineering Environmental engineering, mining, and energy
Social sciences	Management and Quality Sciences

The curriculum includes the following modules:

1) general education,

2) education specific to a given scientific discipline,

3) preparing the doctoral student to implement the assumptions of the individual research plan.

General education module

The general education module includes classes preparing students to achieve the learning outcomes at level 8 of the Polish Qualifications Framework in the scope listed above. Classes totaling 195 hours are conducted during semesters I-V.

Table 1. Subjects covered in the general module for the field of engineering and technical sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Modern Engineering Materials	15	II
10.	Engineering Modeling and Calculations	30	III
11.	Advanced Engineering Research Methods	15	III
12.	Commercialization of Research Results	15	V
	Total Number of Hours	195	

Table 2. Subjects covered in the general module for the field of social sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Quantitative and Qualitative Methods in Economic Research	15	II
10.	Contemporary Concepts of Organizational Management	30	III
11.	Leadership in Organizational Management	15	III
12.	Commercialization of Research Results	15	V
	Total Number of Hours	195	

The Core Education Module

The core education module includes classes that prepare students to achieve advanced knowledge in a given scientific discipline, develop critical research problem-solving skills, and expand existing knowledge. The 60-hour classes are held during semesters II-VI.

Table 3. Courses covered in the core education module

No.	General Subjects	Number of Hours	Semester
1.	Specialist Seminar	15	II
2.	Doctoral Seminar	15	III
3.	Specialist Seminar	15	IV
4.	Specialist Seminar	15	VI
	Total Number of Hours	60	

Doctoral Student Preparation

Module for Achieving the Individual Research Plan The doctoral student preparation module for implementing the individual research plan includes classes with a supervisor/assistant supervisor. The final outcome is the preparation of a doctoral dissertation. 65 hours of classes are offered during semesters I-VIII.

Table 4. Courses covered as part of the IRP preparation module

No.	Subjects	Number of Hours	Semester
1.	Development of an Individual Research Plan	15	I
2.	Thematic Doctoral Seminar	10	IV
3.	Thematic Doctoral Seminar	10	V
4.	Thematic Doctoral Seminar	10	VI
5	Thematic Doctoral Seminar	10	VII
6	Thematic Doctoral Seminar	10	VIII
	Total Number of Hours	65	

In accordance with applicable regulations, professional practice is carried out in the form of teaching classes at a university or participating in their teaching, for a total of up to 60 teaching hours per year.

Framework program of education at the Doctoral School of the Częstochowa University of Technology

No.	Subjects	Number of Hours in Semester							
		I	II	III	IV	V	VI	VII	VIII
1.	Research Methodology	15							
2.	Statistical Methods of Data Processing	15							
3.	Metrology	15							
4.	Development of an Individual Research Plan	15							
5.	Techniques of Writing and Editing Scientific Papers	15							
6.	Academic Presentation Techniques	15							
7.	Professional practice	30							
8.	Technical academic writing		15						
9.	Methods of Obtaining Funds for Scientific Research		15						
10.	Researcher Ethics, Copyright, and Intellectual Property Protection		15						
11.	Modern Engineering Materials (engineering and technical sciences)		15						
	Quantitative and Qualitative Methods in Economic Research (social sciences)								
12.	Specialist Seminar		15						
13.	Professional practice		30						
14.	Doctoral Seminar			15					
15.	Engineering Modeling and Calculations (engineering and technical sciences)			30					
	Contemporary Concepts of Organizational Management (social sciences)								
16.	Advanced Engineering Research Methods (engineering and technical sciences)			15					
	Leadership in Organizational Management (social sciences)								
17.	Professional practice			30					
18.	Specialist Seminar				15				
19.	Thematic Doctoral Seminar				10				
20.	Professional practice				30				
21.	Commercialization of Research Results					15			
22.	Thematic Doctoral Seminar					10			
23.	Professional practice					30			
24.	Specialist Seminar						15		
25.	Thematic Doctoral Seminar						10		
26.	Professional practice						30		
27.	Thematic Doctoral Seminar							10	
28.	Professional practice							30	
29.	Thematic Doctoral Seminar								10
30.	Professional practice								30

Table 5. List of learning outcomes

DETAILED DESCRIPTION OF LEARNING OUTCOMES at the Doctoral School of the Częstochowa University of Technology, PQF level 8		
Learning Outcome Code	Reference to the second-degree characteristics of the PRK	Description of the learning outcome
Science		**The doctoral student knows and understands:**
K_W01	the main development trends of the disciplines in which education takes place P8S_WG	to the extent enabling the revision of existing paradigms - global achievements covering theoretical foundations and general issues and selected specific issues relevant to a given scientific discipline
K_W02	P8S_WG	the main development trends of the disciplines in which education takes place
K_W03	P8S_WG	scientific research methodology
K_W04	P8S_WG	principles for disseminating the results of scientific activities, including open access
K_W05	P8S_WK	fundamental dilemmas of modern civilization
K_W06	P8S_WK	economic, legal, ethical and other important conditions of scientific activity
K_W07	P8S_WK	basic principles of knowledge transfer to the economic and social spheres and the commercialization of research results and the know-how associated with these results
Skils		**A doctoral student can:**
K_U01	P8S_UW	Use knowledge from various fields of science to creatively identify, formulate, and innovatively solve complex problems or perform research tasks, in particular: • define the purpose and subject of research and formulate a research hypothesis, • develop research methods, techniques, and tools, and apply them creatively, • draw conclusions based on research results.
K_U02	P8S_UW	critically analyze and evaluate the results of scientific research, expert activities and other creative works and their contribution to the development of knowledge
K_U03	P8S_UW	transfer the results of scientific activity to the economic and social spheres
K_U04	P8S_UK	communicate on specialized topics to a degree that allows for active participation in the international scientific community
K_U05	P8S_UK	disseminate the results of scientific activity, including in popular forms
K_U06	P8S_UK	initiate debate

K_U07	P8S_UK	participate in scientific discourse
K_U08	P8S_UK	use a foreign language at level B2 of the Common European Framework of Reference for Languages to a degree that allows participation in the international scientific community
K_U09	P8S_UO	plan and implement individual and team research or creative projects, also in an international environment
K_U10	P8S_UU	independently plan and act for one's own development and inspire and organize the development of others
K_U11	P8S_UU	plan and implement classes or groups of classes using modern methods and tools
SOCIAL COMPETENCES		**The doctoral student is ready to:**
Kfulfilling the social obligations of researchers and creators _K01	P8S_KK	critical evaluation of achievements within a given scientific discipline
K_K02	P8S_KK	critical evaluation of one's own contribution to the development of a given scientific discipline
K_K03	P8S_KK	recognizing the importance of knowledge in solving cognitive and practical problems
K_K04	P8S_KO	fulfilling the social obligations of researchers and creators
K_K05	P8S_KO	initiating activities in the public interest
K_K06	P8S_KO	thinking and acting in an entrepreneurial manner
K_K07	P8S_KR	maintaining and developing the ethos of research and creative communities, including: • conducting research independently, • respecting the principle of public ownership of research results, taking into account the principles of intellectual property protection

Legend: K_ - learning outcome code Underlined symbols: K - social competences U - skills W - knowledge 01,02,... - learning outcome number

Description of learning outcomes at the Doctoral School of the Częstochowa University of Technology

Semester I

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Research Methodology	K_W03 K_U01	15
2.	Statistical Methods of Data Processing	K_U01	15
3.	Metrology	K_U01	15
4.	Development of an Individual Research Plan	K_W01 K_W02 K_U01 K_U02 K_U09 K_U10 K_K01 K_K02 K_K03 K_K07	15
5.	Techniques of Writing and Editing Scientific Papers	K_W04 K_U01 K_U05	15
6.	Academic Presentation Techniques	K_W01 K_U01 K_U02 K_U07	15
7.	Professional practice	K_U11	30
		Total Number of Hours	**120**

Semester II

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Technical academic writing	K_W04 K_U01 K_U04 K_U08	15
2.	Methods of Obtaining Funds for Scientific Research	K_W01 K_W06 K_U01 K_U02	15
3.	Researcher Ethics, Copyright, and Intellectual Property Protection	K_W05 K_W06 K_K03	15

		K_K04 K_K07	
4.	Modern Engineering Materials (engineering and technical sciences)	K_W01 K_W02	15
	Quantitative and Qualitative Methods in Economic Research (social sciences)	K_W02 K_U02	
6.	Specialist Seminar	K_W01 K_W02 K_W03 K_U02 K_U04 K_U05 K_U06 K_K03	15
7.	Professional practice	K_U11	30
	Total Number of Hours		**105**

Semester III

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Doctoral Seminar	K_W01 K_W02 K_W03 K_U01 K_U02 K_U06 K_K03	15
2.	Engineering Modeling and Calculations (engineering and technical sciences)	K_W01 K_W03 K_U01 K_U10	30
	Contemporary Concepts of Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_U10	
3.	Advanced Engineering Research Methods (engineering and technical sciences)	K_W01 K_W03 K_U01 K_K03	15
	Leadership in Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_K03	
4.	Professional practice	K_U11	30
	Total Number of Hours		**90**

Semester IV

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
3.	Professional practice	K_U11	30
		Total Number of Hours	**55**

Semestr V

No.	Course Name	Learning Outcome Code	Number of Hours*
1	Commercialization of Research Results	K_W06 K_W07 K_U03 K_K05 K_K06	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
3.	Professional practice	K_U11	30
		Total Number of Hours	**55**

Semestr VI

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
3.	Professional practice	K_U11	30
Total Number of Hours			**55**

Semestr VII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
2.	Professional practice	K_U11	30
Total Number of Hours			**40**

Semestr VIII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
2.	Professional practice	K_U11	30
		Total Number of Hours	**40**

Legend: **:*
w - lecture, k - discussion class, - laboratory, s - seminar; the type of classes conducted is indicated by the course coordinator.

Resolution No. 386/2019/2020
of the Senate of Częstochowa University of Technology
of February 12, 2020

regarding: the curriculum at the Doctoral School of Częstochowa University of Technology

1. The Senate of Częstochowa University of Technology, pursuant to Article 28, Section 1, Item 12 of the Act of July 20, 2018 - The Law on Higher Education and Science (Journal of Laws of 2020, item 085, as amended), with reference to § 22 section 1 item 11 of the Statute of the Częstochowa University of Technology (Resolution No. 354/2018/2019 of the Senate of the Częstochowa University of Technology of 4 September 2019), in an open vote, established the curriculum at the Doctoral School of the Częstochowa University of Technology for the academic year 2020/2021, in accordance with the Annex to this resolution. .

2. This resolution comes into effect on the date of its adoption.

Rector

Annex
Resolution No. 386/2019/2020
of the Senate of Częstochowa University of Technology
of February 12, 2020

Education Program at the Doctoral School of the Częstochowa University of Technology

The education program at the Doctoral School prepares students for research or research and development work, and in particular leads to the achievement of the intended learning outcomes at level 8 of the Polish Qualifications Framework in the following areas:
a) advanced knowledge:
• basic for the field related to the area of research conducted, encompassing the latest scientific achievements,
• detailed, corresponding to the area of research conducted, encompassing the latest scientific achievements;
b) skills related to the methodology and methodologies of conducting scientific research,
c) social competences related to scientific and research activities and the social role of the scientist.

The education program at the Doctoral School of the Częstochowa University of Technology is implemented in the following scientific fields/disciplines:

Fields of science	**Scientific disciplines**
Engineering and technical sciences	Automation, electronics, and electrical engineering Technical information technology and telecommunications Materials engineering Mechanical engineering Environmental engineering, mining, and energy
Social sciences	Management and Quality Sciences

The curriculum includes the following modules:

1) general education,

2) education specific to a given scientific discipline,

3) preparing the doctoral student to implement the assumptions of the individual research plan,

4) professional practice.

General education module

The general education module includes classes preparing students to achieve the learning outcomes at level 8 of the Polish Qualifications Framework in the scope listed above. Classes totaling 195 hours are conducted during semesters I-V.

Table 1. Subjects covered in the general module for the field of engineering and technical sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Modern Engineering Materials	15	II
10.	Engineering Modeling and Calculations	30	III
11.	Advanced Engineering Research Methods	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
	Total Number of Hours	210	

Table 2. Subjects covered in the general module for the field of social sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Quantitative and Qualitative Methods in Economic Research	15	II
10.	Contemporary Concepts of Organizational Management	30	III
11.	Leadership in Organizational Management	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
	Total Number of Hours	210	

The Core Education Module

The core education module includes classes that prepare students to achieve advanced knowledge in a given scientific discipline, develop critical research problem-solving skills, and expand existing knowledge. The 60-hour classes are held during semesters II-VI.

Table 3. Courses covered in the core education module

No.	General Subjects	Number of Hours	Semester
1.	Specialist Seminar	15	II
2.	Doctoral Seminar	15	III
3.	Specialist Seminar	15	IV
4.	Specialist Seminar	15	VI
	Total Number of Hours	60	

A module for preparing doctoral students to implement the assumptions of an Individual Research Plan.

As part of the training module, which prepares doctoral students to implement their individual research plan, classes are held with a supervisor/assistant supervisor. The final outcome is the preparation of a doctoral dissertation. The 65-hour course is offered during semesters I-VIII.

Table 4. Courses covered as part of the IRP preparation module

No.	Subjects	Number of Hours	Semester
1.	Development of an Individual Research Plan	15	I
2.	Thematic Doctoral Seminar	10	IV
3.	Thematic Doctoral Seminar	10	V
4.	Thematic Doctoral Seminar	10	VI
5	Thematic Doctoral Seminar	10	VII
6	Thematic Doctoral Seminar	10	VIII
	Total Number of Hours	65	

In accordance with applicable regulations, professional practice is carried out in the form of teaching classes at a university or participating in their teaching, for a total of up to 60 teaching hours per year.

Framework program of education at the Doctoral School of the Częstochowa University of Technology

No.	Subjects	Number of Hours in Semester							
		I	II	III	IV	V	VI	VII	VIII
1.	Research Methodology	15							
2.	Statistical Methods of Data Processing	15							
3.	Metrology	15							
4.	Development of an Individual Research Plan	15							
5.	Techniques of Writing and Editing Scientific Papers	15							
6.	Academic Presentation Techniques	15							
7.	Technical academic writing		15						
8.	Methods of Obtaining Funds for Scientific Research		15						
9.	Researcher Ethics, Copyright, and Intellectual Property Protection		15						
10.	Modern Engineering Materials (engineering and technical sciences) Quantitative and Qualitative Methods in Economic Research (social sciences)		15						
11	Specialist Seminar		15						
12.	Doctoral Seminar			15					
13	Engineering Modeling and Calculations (engineering and technical sciences) Contemporary Concepts of Organizational Management (social sciences)			30					
14.	Advanced Engineering Research Methods (engineering and technical sciences) Leadership in Organizational Management (social sciences)			15					
15.	Communicating science to non scientific audiences			15					
16.	Specialist Seminar				15				
17.	Thematic Doctoral Seminar				10				
18.	Commercialization of Research Results					15			
19.	Thematic Doctoral Seminar					10			
20.	Specialist Seminar						15		
21.	Thematic Doctoral Seminar						10		
22.	Thematic Doctoral Seminar							10	
23.	Thematic Doctoral Seminar								10

Table 5. List of learning outcomes

DETAILED DESCRIPTION OF LEARNING OUTCOMES at the Doctoral School of the Częstochowa University of Technology, PQF level 8		
Learning Outcome Code	Reference to the second-degree characteristics of the PRK	Description of the learning outcome
Science		**The doctoral student knows and understands:**
K_W01	the main development trends of the disciplines in which education takes place P8S_WG	to the extent enabling the revision of existing paradigms - global achievements covering theoretical foundations and general issues and selected specific issues relevant to a given scientific discipline
K_W02	P8S_WG	the main development trends of the disciplines in which education takes place
K_W03	P8S_WG	scientific research methodology
K_W04	P8S_WG	principles for disseminating the results of scientific activities, including open access
K_W05	P8S_WK	fundamental dilemmas of modern civilization
K_W06	P8S_WK	economic, legal, ethical and other important conditions of scientific activity
K_W07	P8S_WK	basic principles of knowledge transfer to the economic and social spheres and the commercialization of research results and the know-how associated with these results
Skils		**A doctoral student can:**
K_U01	P8S_UW	Use knowledge from various fields of science to creatively identify, formulate, and innovatively solve complex problems or perform research tasks, in particular: • define the purpose and subject of research and formulate a research hypothesis, • develop research methods, techniques, and tools, and apply them creatively, • draw conclusions based on research results.
K_U02	P8S_UW	critically analyze and evaluate the results of scientific research, expert activities and other creative works and their contribution to the development of knowledge
K_U03	P8S_UW	transfer the results of scientific activity to the economic and social spheres
K_U04	P8S_UK	communicate on specialized topics to a degree that allows for active participation in the international scientific community
K_U05	P8S_UK	disseminate the results of scientific activity, including in popular forms
K_U06	P8S_UK	initiate debate

K_U07	P8S_UK	participate in scientific discourse
K_U08	P8S_UK	use a foreign language at level B2 of the Common European Framework of Reference for Languages to a degree that allows participation in the international scientific community
K_U09	P8S_UO	plan and implement individual and team research or creative projects, also in an international environment
K_U10	P8S_UU	independently plan and act for one's own development and inspire and organize the development of others
K_U11	P8S_UU	plan and implement classes or groups of classes using modern methods and tools
SOCIAL COMPETENCES		**The doctoral student is ready to:**
Kfulfilling the social obligations of researchers and creators _K01	P8S_KK	critical evaluation of achievements within a given scientific discipline
K_K02	P8S_KK	critical evaluation of one's own contribution to the development of a given scientific discipline
K_K03	P8S_KK	recognizing the importance of knowledge in solving cognitive and practical problems
K_K04	P8S_KO	fulfilling the social obligations of researchers and creators
K_K05	P8S_KO	initiating activities in the public interest
K_K06	P8S_KO	thinking and acting in an entrepreneurial manner
K_K07	P8S_KR	maintaining and developing the ethos of research and creative communities, including: • conducting research independently, • respecting the principle of public ownership of research results, taking into account the principles of intellectual property protection

Legend: K_ - learning outcome code Underlined symbols: K - social competences U - skills W - knowledge 01,02,... - learning outcome number

Description of learning outcomes at the Doctoral School of the Częstochowa University of Technology

Semester I

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Research Methodology	K_W03 K_U01	15
2.	Statistical Methods of Data Processing	K_U01	15
3.	Metrology	K_U01	15
4.	Development of an Individual Research Plan	K_W01 K_W02 K_U01 K_U02 K_U09 K_U10 K_K01 K_K02 K_K03 K_K07	15
5.	Techniques of Writing and Editing Scientific Papers	K_W04 K_U01 K_U05	15
6.	Academic Presentation Techniques	K_W01 K_U01 K_U02 K_U07	15
		Total Number of Hours	**90**

Semester II

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Technical academic writing	K_W04 K_U01 K_U04 K_U08	15
2.	Methods of Obtaining Funds for Scientific Research	K_W01 K_W06 K_U01 K_U02	15
3.	Researcher Ethics, Copyright, and Intellectual Property Protection	K_W05 K_W06 K_K03 K_K04 K_K07	15

4.	Modern Engineering Materials (engineering and technical sciences)	K_W01 K_W02	15
	Quantitative and Qualitative Methods in Economic Research (social sciences)	K_W02 K_U02	
6.	Specialist Seminar	K_W01 K_W02 K_W03 K_U02 K_U04 K_U05 K_U06 K_K03	15
	Total Number of Hours		**75**

Semester III

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Doctoral Seminar	K_W01 K_W02 K_W03 K_U01 K_U02 K_U06 K_K03	15
2.	Communicating science to non scientific audiences	K_U04 K_U07 K_U08	15
3.	Engineering Modeling and Calculations (engineering and technical sciences)	K_W01 K_W03 K_U01 K_U10	30
	Contemporary Concepts of Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_U10	
4.	Advanced Engineering Research Methods (engineering and technical sciences)	K_W01 K_W03 K_U01 K_K03	15
	Leadership in Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_K03	
	Total Number of Hours		**75**

Semester IV

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr V

No.	Course Name	Learning Outcome Code	Number of Hours*
1	Commercialization of Research Results	K_W06 K_W07 K_U03 K_K05 K_K06	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr VI

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr VII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**10**

Semestr VIII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**10**

Legend: **:*
w - lecture, k - discussion class, - laboratory, s - seminar; the type of classes conducted is indicated by the course coordinator.

Professional practice

Professional practice may be conducted by teaching classes at a university, participating in classes, or in another form specified by the head of the academic discipline in which the doctoral student is studying at the doctoral school. The duration of the professional internship cannot exceed 60 hours per academic year.

Professional practice

Year of education	Type of professional practice	Learning Outcome Code	Number of Hours**
1.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
2.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
3.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
4.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
		Total Number of Hours	**240**

Legend:
**: maximum number of hours per academic year.

Resolution No. 100/2021/2022
of the Senate of Częstochowa University of Technology
of March 30, 2022

regarding: the curriculum at the Doctoral School of Częstochowa University of Technology

1. The Senate of Częstochowa University of Technology, pursuant to Article 28, Section 1, Item 12 of the Act of July 20, 2018 - The Law on Higher Education and Science (Journal of Laws of 2022, item 574, as amended), with reference to § 22 section 1 item 11 of the Statute of the Częstochowa University of Technology, in an open vote, established the curriculum at the Doctoral School of the Częstochowa University of Technology for the academic year 2022/2023, in accordance with the Annex to this resolution. .

2. This resolution comes into effect on the date of its adoption.

Rector

Annex
to Resolution No. 100/2021/2022
of the Senate of Częstochowa University of Technology

Education Program at the Doctoral School of the Częstochowa University of Technology

The education program at the Doctoral School prepares students for research or research and development work, and in particular leads to the achievement of the intended learning outcomes at level 8 of the Polish Qualifications Framework in the following areas:
a) advanced knowledge:
• basic for the field related to the area of research conducted, encompassing the latest scientific achievements,
• detailed, corresponding to the area of research conducted, encompassing the latest scientific achievements;
b) skills related to the methodology and methodologies of conducting scientific research,
c) social competences related to scientific and research activities and the social role of the scientist.

The education program at the Doctoral School of the Częstochowa University of Technology is implemented in the following scientific fields/disciplines:

Fields of science	**Scientific disciplines**
Engineering and technical sciences	Automation, electronics, and electrical engineering Technical information technology and telecommunications Materials engineering Mechanical engineering Environmental engineering, mining, and energy
Social sciences	Management and Quality Sciences

The curriculum includes the following modules:

1) general education,

2) education specific to a given scientific discipline,

3) preparing the doctoral student to implement the assumptions of the individual research plan,

4) professional practice.

General education module

The general education module includes classes preparing students to achieve the learning outcomes at level 8 of the Polish Qualifications Framework in the scope listed above. Classes totaling 210 hours are conducted during semesters I-V.

Table 1. Subjects covered in the general module for the field of engineering and technical sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Modern Engineering Materials	15	II
10.	Engineering Modeling and Calculations	30	III
11.	Advanced Engineering Research Methods	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
	Total Number of Hours	210	

Table 2. Subjects covered in the general module for the field of social sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Quantitative and Qualitative Methods in Economic Research	15	II
10.	Contemporary Concepts of Organizational Management	30	III
11.	Leadership in Organizational Management	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
	Total Number of Hours	210	

The Core Education Module

The core education module includes classes that prepare students to achieve advanced knowledge in a given scientific discipline, develop critical research problem-solving skills, and expand existing knowledge. The 60-hour classes are held during semesters II-VI.

Table 3. Courses covered in the core education module

No.	General Subjects	Number of Hours	Semester
1.	Specialist Seminar	15	II
2.	Doctoral Seminar	15	III
3.	Specialist Seminar	15	IV
4.	Specialist Seminar	15	VI
	Total Number of Hours	60	

A module for preparing doctoral students to implement the assumptions of an Individual Research Plan.

As part of the training module, which prepares doctoral students to implement their individual research plan, classes are held with a supervisor/assistant supervisor. The final outcome is the preparation of a doctoral dissertation. The 65-hour course is offered during semesters I-VIII.

Table 4. Courses covered as part of the IRP preparation module

No.	Subjects	Number of Hours	Semester
1.	Development of an Individual Research Plan	15	I
2.	Thematic Doctoral Seminar	10	IV
3.	Thematic Doctoral Seminar	10	V
4.	Thematic Doctoral Seminar	10	VI
5	Thematic Doctoral Seminar	10	VII
6	Thematic Doctoral Seminar	10	VIII
	Total Number of Hours	65	

In accordance with applicable regulations, professional practice is carried out in the form of teaching classes at a university or participating in their teaching, for a total of up to 60 teaching hours per year.

Framework program of education at the Doctoral School of the Częstochowa University of Technology

No.	Subjects	Number of Hours in Semester							
		I	II	III	IV	V	VI	VII	VIII
1.	Research Methodology	15							
2.	Statistical Methods of Data Processing	15							
3.	Metrology	15							
4.	Development of an Individual Research Plan	15							
5.	Techniques of Writing and Editing Scientific Papers	15							
6.	Academic Presentation Techniques	15							
7.	Technical academic writing		15						
8.	Methods of Obtaining Funds for Scientific Research		15						
9.	Researcher Ethics, Copyright, and Intellectual Property Protection		15						
10.	Modern Engineering Materials (engineering and technical sciences) Quantitative and Qualitative Methods in Economic Research (social sciences)		15						
11	Specialist Seminar		15						
12.	Doctoral Seminar			15					
13	Engineering Modeling and Calculations (engineering and technical sciences) Contemporary Concepts of Organizational Management (social sciences)			30					
14.	Advanced Engineering Research Methods (engineering and technical sciences) Leadership in Organizational Management (social sciences)			15					
15.	Communicating science to non scientific audiences			15					
16.	Specialist Seminar				15				
17.	Thematic Doctoral Seminar				10				
18.	Commercialization of Research Results					15			
19.	Thematic Doctoral Seminar					10			
20.	Specialist Seminar						15		
21.	Thematic Doctoral Seminar						10		
22.	Thematic Doctoral Seminar							10	
23.	Thematic Doctoral Seminar								10

Table 5. List of learning outcomes

DETAILED DESCRIPTION OF LEARNING OUTCOMES at the Doctoral School of the Częstochowa University of Technology, PQF level 8		
Learning Outcome Code	Reference to the second-degree characteristics of the PRK	Description of the learning outcome
Science		**The doctoral student knows and understands:**
K_W01	the main development trends of the disciplines in which education takes place P8S_WG	to the extent enabling the revision of existing paradigms - global achievements covering theoretical foundations and general issues and selected specific issues relevant to a given scientific discipline
K_W02	P8S_WG	the main development trends of the disciplines in which education takes place
K_W03	P8S_WG	scientific research methodology
K_W04	P8S_WG	principles for disseminating the results of scientific activities, including open access
K_W05	P8S_WK	fundamental dilemmas of modern civilization
K_W06	P8S_WK	economic, legal, ethical and other important conditions of scientific activity
K_W07	P8S_WK	basic principles of knowledge transfer to the economic and social spheres and the commercialization of research results and the know-how associated with these results
Skils		**A doctoral student can:**
K_U01	P8S_UW	Use knowledge from various fields of science to creatively identify, formulate, and innovatively solve complex problems or perform research tasks, in particular: • define the purpose and subject of research and formulate a research hypothesis, • develop research methods, techniques, and tools, and apply them creatively, • draw conclusions based on research results.
K_U02	P8S_UW	critically analyze and evaluate the results of scientific research, expert activities and other creative works and their contribution to the development of knowledge
K_U03	P8S_UW	transfer the results of scientific activity to the economic and social spheres
K_U04	P8S_UK	communicate on specialized topics to a degree that allows for active participation in the international scientific community
K_U05	P8S_UK	disseminate the results of scientific activity, including in popular forms
K_U06	P8S_UK	initiate debate

K_U07	P8S_UK	participate in scientific discourse
K_U08	P8S_UK	use a foreign language at level B2 of the Common European Framework of Reference for Languages to a degree that allows participation in the international scientific community
K_U09	P8S_UO	plan and implement individual and team research or creative projects, also in an international environment
K_U10	P8S_UU	independently plan and act for one's own development and inspire and organize the development of others
K_U11	P8S_UU	plan and implement classes or groups of classes using modern methods and tools
SOCIAL COMPETENCES		**The doctoral student is ready to:**
Kfulfilling the social obligations of researchers and creators _K01	P8S_KK	critical evaluation of achievements within a given scientific discipline
K_K02	P8S_KK	critical evaluation of one's own contribution to the development of a given scientific discipline
K_K03	P8S_KK	recognizing the importance of knowledge in solving cognitive and practical problems
K_K04	P8S_KO	fulfilling the social obligations of researchers and creators
K_K05	P8S_KO	initiating activities in the public interest
K_K06	P8S_KO	thinking and acting in an entrepreneurial manner
K_K07	P8S_KR	maintaining and developing the ethos of research and creative communities, including: • conducting research independently, • respecting the principle of public ownership of research results, taking into account the principles of intellectual property protection

Legend: K_ - learning outcome code Underlined symbols: K - social competences U - skills W - knowledge 01,02,... - learning outcome number

Description of learning outcomes at the Doctoral School of the Częstochowa University of Technology

Semester I

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Research Methodology	K_W03 K_U01	15
2.	Statistical Methods of Data Processing	K_U01	15
3.	Metrology	K_U01	15
4.	Development of an Individual Research Plan	K_W01 K_W02 K_U01 K_U02 K_U09 K_U10 K_K01 K_K02 K_K03 K_K07	15
5.	Techniques of Writing and Editing Scientific Papers	K_W04 K_U01 K_U05	15
6.	Academic Presentation Techniques	K_W01 K_U01 K_U02 K_U07	15
		Total Number of Hours	**90**

Semester II

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Technical academic writing	K_W04 K_U01 K_U04 K_U08	15
2.	Methods of Obtaining Funds for Scientific Research	K_W01 K_W06 K_U01 K_U02	15
3.	Researcher Ethics, Copyright, and Intellectual Property Protection	K_W05 K_W06 K_K03 K_K04 K_K07	15

4.	Modern Engineering Materials (engineering and technical sciences)	K_W01 K_W02	15
	Quantitative and Qualitative Methods in Economic Research (social sciences)	K_W02 K_U02	
6.	Specialist Seminar	K_W01 K_W02 K_W03 K_U02 K_U04 K_U05 K_U06 K_K03	15
	Total Number of Hours		**75**

Semester III

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Doctoral Seminar	K_W01 K_W02 K_W03 K_U01 K_U02 K_U06 K_K03	15
2.	Communicating science to non scientific audiences	K_U04 K_U07 K_U08	15
3.	Engineering Modeling and Calculations (engineering and technical sciences)	K_W01 K_W03 K_U01 K_U10	30
	Contemporary Concepts of Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_U10	
4.	Advanced Engineering Research Methods (engineering and technical sciences)	K_W01 K_W03 K_U01 K_K03	15
	Leadership in Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_K03	
	Total Number of Hours		**75**

Semester IV

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr V

No.	Course Name	Learning Outcome Code	Number of Hours*
1	Commercialization of Research Results	K_W06 K_W07 K_U03 K_K05 K_K06	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr VI

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr VII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**10**

Semestr VIII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**10**

Legend: **:*
w - lecture, k - discussion class, - laboratory, s - seminar; the type of classes conducted is indicated by the course coordinator.

Professional practice

Professional practiceProfessional practice may be conducted by teaching classes at a university, participating in classes, or in another form specified by the head of the academic discipline in which the doctoral student is studying at the doctoral school. The duration of the professional internship cannot exceed 60 hours per academic year.

Professional practice

Year of education	Type of professional practice	Learning Outcome Code	Number of Hours**
1.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
2.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
3.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
4.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
		Total Number of Hours	**240**

Legend:
**: maximum number of hours per academic year.

Resolution No. 193/2022/2023
of the Senate of Częstochowa University of Technology
of March 22, 2023

regarding: the curriculum at the Doctoral School of Częstochowa University of Technology

1. The Senate of the Częstochowa University of Technology, pursuant to Article 28, paragraph 1, point 12, and Article 201, paragraph 4, of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2022, item 574, as amended), in reference to Article 22, paragraph 1, point 11, of the Statute of the Częstochowa University of Technology, in an open vote, established the curriculum at the Doctoral School of the Częstochowa University of Technology from the academic year 2023/2024, in accordance with the annex to this resolution.

2. This resolution comes into effect on the date of its adoption.

Rector

Annex
to Resolution No. 193/2022/2023
of the Senate of Częstochowa University of Technology

Education Program at the Doctoral School of the Częstochowa University of Technology

The education program at the Doctoral School prepares students for research or research and development work, and in particular leads to the achievement of the intended learning outcomes at level 8 of the Polish Qualifications Framework in the following areas:
a) advanced knowledge:
• basic for the field related to the area of research conducted, encompassing the latest scientific achievements,
• detailed, corresponding to the area of research conducted, encompassing the latest scientific achievements;
b) skills related to the methodology and methodologies of conducting scientific research,
c) social competences related to scientific and research activities and the social role of the scientist.

The education program at the Doctoral School of the Częstochowa University of Technology is implemented in the following scientific fields/disciplines:

Fields of science	**Scientific disciplines**
Engineering and technical sciences	Automation, electronics, and electrical engineering Technical information technology and telecommunications Materials engineering Mechanical engineering Environmental engineering, mining, and energy
Social sciences	Management and Quality Sciences

The curriculum includes the following modules:

1) general education,

2) education specific to a given scientific discipline,

3) preparing the doctoral student to implement the assumptions of the individual research plan,

4) professional practice.

General education module

The general education module includes classes preparing students to achieve the learning outcomes at level 8 of the Polish Qualifications Framework in the scope listed above. Classes totaling 210 hours are conducted during semesters I-V.

Table 1. Subjects covered in the general module for the field of engineering and technical sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Modern Engineering Materials	15	II
10.	Engineering Modeling and Calculations	30	III
11.	Advanced Engineering Research Methods	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
	Total Number of Hours	210	

Table 2. Subjects covered in the general module for the field of social sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Quantitative and Qualitative Methods in Economic Research	15	II
10.	Contemporary Concepts of Organizational Management	30	III
11.	Leadership in Organizational Management	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
	Total Number of Hours	210	

The Core Education Module

The core education module includes classes that prepare students to achieve advanced knowledge in a given scientific discipline, develop critical research problem-solving skills, and expand existing knowledge. The 60-hour classes are held during semesters II-VI.

Table 3. Courses covered in the core education module

No.	General Subjects	Number of Hours	Semester
1.	Specialist Seminar	15	II
2.	Doctoral Seminar	15	III
3.	Specialist Seminar	15	IV
4.	Specialist Seminar	15	VI
	Total Number of Hours	60	

A module for preparing doctoral students to implement the assumptions of an Individual Research Plan.

As part of the training module, which prepares doctoral students to implement their individual research plan, classes are held with a supervisor/assistant supervisor. The final outcome is the preparation of a doctoral dissertation. The 65-hour course is offered during semesters I-VIII.

Table 4. Courses covered as part of the IRP preparation module

No.	Subjects	Number of Hours	Semester
1.	Development of an Individual Research Plan	15	I
2.	Thematic Doctoral Seminar	10	IV
3.	Thematic Doctoral Seminar	10	V
4.	Thematic Doctoral Seminar	10	VI
5	Thematic Doctoral Seminar	10	VII
6	Thematic Doctoral Seminar	10	VIII
	Total Number of Hours	65	

In accordance with applicable regulations, professional practice is carried out in the form of teaching classes at a university or participating in their teaching, for a total of up to 60 teaching hours per year.

Framework program of education at the Doctoral School of the Częstochowa University of Technology

No.	Subjects	Number of Hours in Semester							
		I	II	III	IV	V	VI	VII	VIII
1.	Research Methodology	15							
2.	Statistical Methods of Data Processing	15							
3.	Metrology	15							
4.	Development of an Individual Research Plan	15							
5.	Techniques of Writing and Editing Scientific Papers	15							
6.	Academic Presentation Techniques	15							
7.	Technical academic writing		15						
8.	Methods of Obtaining Funds for Scientific Research		15						
9.	Researcher Ethics, Copyright, and Intellectual Property Protection		15						
10.	Modern Engineering Materials (engineering and technical sciences) Quantitative and Qualitative Methods in Economic Research (social sciences)		15						
11	Specialist Seminar		15						
12.	Doctoral Seminar			15					
13	Engineering Modeling and Calculations (engineering and technical sciences) Contemporary Concepts of Organizational Management (social sciences)			30					
14.	Advanced Engineering Research Methods (engineering and technical sciences) Leadership in Organizational Management (social sciences)			15					
15.	Communicating science to non scientific audiences			15					
16.	Specialist Seminar				15				
17.	Thematic Doctoral Seminar				10				
18.	Commercialization of Research Results					15			
19.	Thematic Doctoral Seminar					10			
20.	Specialist Seminar						15		
21.	Thematic Doctoral Seminar						10		
22.	Thematic Doctoral Seminar							10	
23.	Thematic Doctoral Seminar								10

Table 5. List of learning outcomes

DETAILED DESCRIPTION OF LEARNING OUTCOMES at the Doctoral School of the Częstochowa University of Technology, PQF level 8		
Learning Outcome Code	Reference to the second-degree characteristics of the PRK	Description of the learning outcome
Science		**The doctoral student knows and understands:**
K_W01	the main development trends of the disciplines in which education takes place P8S_WG	to the extent enabling the revision of existing paradigms - global achievements covering theoretical foundations and general issues and selected specific issues relevant to a given scientific discipline
K_W02	P8S_WG	the main development trends of the disciplines in which education takes place
K_W03	P8S_WG	scientific research methodology
K_W04	P8S_WG	principles for disseminating the results of scientific activities, including open access
K_W05	P8S_WK	fundamental dilemmas of modern civilization
K_W06	P8S_WK	economic, legal, ethical and other important conditions of scientific activity
K_W07	P8S_WK	basic principles of knowledge transfer to the economic and social spheres and the commercialization of research results and the know-how associated with these results
Skils		**A doctoral student can:**
K_U01	P8S_UW	Use knowledge from various fields of science to creatively identify, formulate, and innovatively solve complex problems or perform research tasks, in particular: • define the purpose and subject of research and formulate a research hypothesis, • develop research methods, techniques, and tools, and apply them creatively, • draw conclusions based on research results.
K_U02	P8S_UW	critically analyze and evaluate the results of scientific research, expert activities and other creative works and their contribution to the development of knowledge
K_U03	P8S_UW	transfer the results of scientific activity to the economic and social spheres
K_U04	P8S_UK	communicate on specialized topics to a degree that allows for active participation in the international scientific community
K_U05	P8S_UK	disseminate the results of scientific activity, including in popular forms
K_U06	P8S_UK	initiate debate

K_U07	P8S_UK	participate in scientific discourse
K_U08	P8S_UK	use a foreign language at level B2 of the Common European Framework of Reference for Languages to a degree that allows participation in the international scientific community
K_U09	P8S_UO	plan and implement individual and team research or creative projects, also in an international environment
K_U10	P8S_UU	independently plan and act for one's own development and inspire and organize the development of others
K_U11	P8S_UU	plan and implement classes or groups of classes using modern methods and tools
SOCIAL COMPETENCES		**The doctoral student is ready to:**
Kfulfilling the social obligations of researchers and creators _K01	P8S_KK	critical evaluation of achievements within a given scientific discipline
K_K02	P8S_KK	critical evaluation of one's own contribution to the development of a given scientific discipline
K_K03	P8S_KK	recognizing the importance of knowledge in solving cognitive and practical problems
K_K04	P8S_KO	fulfilling the social obligations of researchers and creators
K_K05	P8S_KO	initiating activities in the public interest
K_K06	P8S_KO	thinking and acting in an entrepreneurial manner
K_K07	P8S_KR	maintaining and developing the ethos of research and creative communities, including: • conducting research independently, • respecting the principle of public ownership of research results, taking into account the principles of intellectual property protection

Legend: K_ - learning outcome code Underlined symbols: K - social competences U - skills W - knowledge 01,02,... - learning outcome number

Description of learning outcomes at the Doctoral School of the Częstochowa University of Technology

Semester I

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Research Methodology	K_W03 K_U01	15
2.	Statistical Methods of Data Processing	K_U01	15
3.	Metrology	K_U01	15
4.	Development of an Individual Research Plan	K_W01 K_W02 K_U01 K_U02 K_U09 K_U10 K_K01 K_K02 K_K03 K_K07	15
5.	Techniques of Writing and Editing Scientific Papers	K_W04 K_U01 K_U05	15
6.	Academic Presentation Techniques	K_W01 K_U01 K_U02 K_U07	15
		Total Number of Hours	**90**

Semester II

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Technical academic writing	K_W04 K_U01 K_U04 K_U08	15
2.	Methods of Obtaining Funds for Scientific Research	K_W01 K_W06 K_U01 K_U02	15
3.	Researcher Ethics, Copyright, and Intellectual Property Protection	K_W05 K_W06 K_K03 K_K04 K_K07	15

4.	Modern Engineering Materials (engineering and technical sciences)	K_W01 K_W02	15
	Quantitative and Qualitative Methods in Economic Research (social sciences)	K_W02 K_U02	
6.	Specialist Seminar	K_W01 K_W02 K_W03 K_U02 K_U04 K_U05 K_U06 K_K03	15
		Total Number of Hours	**75**

Semester III

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Doctoral Seminar	K_W01 K_W02 K_W03 K_U01 K_U02 K_U06 K_K03	15
2.	Communicating science to non scientific audiences	K_U04 K_U07 K_U08	15
3.	Engineering Modeling and Calculations (engineering and technical sciences)	K_W01 K_W03 K_U01 K_U10	30
	Contemporary Concepts of Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_U10	
4.	Advanced Engineering Research Methods (engineering and technical sciences)	K_W01 K_W03 K_U01 K_K03	15
	Leadership in Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_K03	
		Total Number of Hours	**75**

Semester IV

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr V

No.	Course Name	Learning Outcome Code	Number of Hours*
1	Commercialization of Research Results	K_W06 K_W07 K_U03 K_K05 K_K06	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr VI

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**25**

Semestr VII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**10**

Semestr VIII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
		Total Number of Hours	**10**

Legend: **:*
w - lecture, k - discussion class, - laboratory, s - seminar; the type of classes conducted is indicated by the course coordinator.

Professional practice

Professional practiceProfessional practice may be conducted by teaching classes at a university, participating in classes, or in another form specified by the head of the academic discipline in which the doctoral student is studying at the doctoral school. The duration of the professional internship cannot exceed 60 hours per academic year.

Professional practice

Year of education	Type of professional practice	Learning Outcome Code	Number of Hours**
1.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
2.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
3.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
4.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
		Total Number of Hours	**240**

Legend:
**: maximum number of hours per academic year.

Resolution No. 238/2023/2024
of the Senate of Częstochowa University of Technology
of February 14, 2024

regarding: the curriculum at the Doctoral School of Częstochowa University of Technology from academic year 2024/2025

1. The Senate of Częstochowa University of Technology, pursuant to Article 28, paragraph 1, point 12, and Article 201, paragraph 4, of the Act of 20 July 2018 – Law on Education and Science (consolidated text: Journal of Laws of 2023, item 742, as amended), in reference to § 22, paragraph 1, point 11 of the Statute of Częstochowa University of Technology, in an open vote, establishes the curriculum at the Doctoral School of Częstochowa University of Technology starting from the academic year 2024/2025, in accordance with the resolution issued for determination.

2. RESOLUTION No. 193/2022/2023 of the Senate of Częstochowa University of Technology of 22 March 2023 on the curriculum at the Doctoral School of Częstochowa University of Technology starting from the academic year 2023/2024, shall cease to apply.

2. This resolution comes into effect on the date of its adoption.

Rector

Appendix to RESOLUTION No. 238/2023/2024
of the Senate of the Częstochowa University of Technology

Program of study at the Doctoral School of the Częstochowa University of Technology

1. The implementation of the curriculum at the Doctoral School prepares students for research or research and development work, and in particular leads to the achievement of the intended learning outcomes at level 8 of the Polish Qualifications Framework in the following areas:
1) advanced knowledge of a nature:
a) basic for the field related to the area of research conducted, encompassing the latest scientific achievements;
b) detailed, corresponding to the area of research conducted, encompassing the latest scientific achievements;
2) skills related to the methodology and methodologies of conducting scientific research;
3) social competences related to scientific research activities and the social role of the scientist.

2. The direct supervisor of the doctoral student is the head of the scientific discipline in which the doctoral student is studying at the Doctoral School.
3. The education program at the Doctoral School of the Częstochowa University of Technology is carried out in scientific fields/disciplines.

Fields of science	**Scientific disciplines**
Engineering and technical sciences	Automation, electronics, and electrical engineering Technical information technology and telecommunications Materials engineering Mechanical engineering Environmental engineering, mining, and energy
Social sciences	Management and Quality Sciences

The curriculum includes the following modules:
1) general education,
2) education specific to a given scientific discipline,
3) preparing the doctoral student to implement the assumptions of the individual research plan (IRP);
4) professional practice.

General education module

The general education module includes classes preparing students to achieve the learning outcomes at level 8 of the Polish Qualifications Framework in the scope listed above. Classes totaling 220 hours are conducted during semesters I-VII.

Table 1. Subjects covered in the general module for the field of engineering and technical sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Modern Engineering Materials	15	II
10.	Engineering Modeling and Calculations	30	III
11.	Advanced Engineering Research Methods	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
14.	Doctoral workshops	10	VII
	Total Number of Hours	220	

Table 2. Subjects covered in the general module for the field of social sciences

No.	General Subjects	Number of Hours	Semester
1.	Research Methodology	15	I
2.	Statistical Methods of Data Processing	15	I
3.	Metrology	15	I
4.	Techniques of Writing and Editing Scientific Papers	15	I
5.	Academic Presentation Techniques	15	I
6.	Technical academic writing	15	II
7.	Methods of Obtaining Funds for Scientific Research	15	II
8.	Researcher Ethics, Copyright, and Intellectual Property Protection	15	II
9.	Quantitative and Qualitative Methods in Economic Research	15	II
10.	Contemporary Concepts of Organizational Management	30	III

11.	Leadership in Organizational Management	15	III
12.	Communicating science to non scientific audiences	15	III
13.	Commercialization of Research Results	15	V
14.	Doctoral workshops	10	VII
	Total Number of Hours	220	

The Core Education Module

The core education module includes classes that prepare students to achieve advanced knowledge in a given scientific discipline, develop critical research problem-solving skills, and expand existing knowledge. The 65-hour classes are held during semesters II-VIII.

Table 3. Courses covered in the core education module

No.	General Subjects	Number of Hours	Semester
1.	Specialist Seminar	15	II
2.	Doctoral Seminar	15	III
3.	Specialist Seminar	15	IV
4.	Specialist Seminar	15	VI
5.	Doctoral Seminar	5	VIII
	Total Number of Hours	65	

Doctoral Student Preparation

Module for Achieving the Individual Research Plan The doctoral student preparation module for implementing the individual research plan includes classes with a supervisor/assistant supervisor. The final outcome is the preparation of a doctoral dissertation. 65 hours of classes are offered during semesters I-VIII.

Table 4. Courses covered as part of the IRP preparation module

No.	Subjects	Number of Hours	Semester
1.	Development of an Individual Research Plan	15	I
2.	Thematic Doctoral Seminar	10	IV
3.	Thematic Doctoral Seminar	10	V
4.	Thematic Doctoral Seminar	10	VI
5	Thematic Doctoral Seminar	10	VII
6	Thematic Doctoral Seminar	10	VIII
	Total Number of Hours	65	

In accordance with applicable regulations, professional practice is carried out in the form of teaching classes at a university or participating in their teaching, for a total of up to 60 teaching hours per year.

Framework program of education at the Doctoral School of the Częstochowa University of Technology

No.	Subjects	Number of Hours in Semester							
		I	II	III	IV	V	VI	VII	VIII
1.	Research Methodology	15							
2.	Statistical Methods of Data Processing	15							
3.	Metrology	15							
4.	Development of an Individual Research Plan	15							
5.	Techniques of Writing and Editing Scientific Papers	15							
6.	Academic Presentation Techniques	15							
7.	Technical academic writing		15						
8.	Methods of Obtaining Funds for Scientific Research		15						
9.	Researcher Ethics, Copyright, and Intellectual Property Protection		15						
10.	Modern Engineering Materials (engineering and technical sciences)		15						
	Quantitative and Qualitative Methods in Economic Research (social sciences)								
11.	Specialist Seminar		15						
12.	Doctoral Seminar			15					
13.	Engineering Modeling and Calculations (engineering and technical sciences)			30					
	Contemporary Concepts of Organizational Management (social sciences)								
14.	Advanced Engineering Research Methods (engineering and technical sciences)			15					
	Leadership in Organizational Management (social sciences)								
15.	Communicating science to non scientific audiences			15					
16.	Specialist Seminar				15				
17.	Thematic Doctoral Seminar				10				
18.	Commercialization of Research Results					15			
19.	Thematic Doctoral Seminar					10			
20.	Specialist Seminar						15		
21.	Thematic Doctoral Seminar						10		
22.	Thematic Doctoral Seminar							10	
23.	Doctoral workshops							5	
29.	Thematic Doctoral Seminar								10
30.	Doctoral Seminar								10

Table 5. List of learning outcomes

DETAILED DESCRIPTION OF LEARNING OUTCOMES at the Doctoral School of the Częstochowa University of Technology, PQF level 8		
Learning Outcome Code	Reference to the second-degree characteristics of the PRK	Description of the learning outcome
Science		**The doctoral student knows and understands:**
K_W01	the main development trends of the disciplines in which education takes place P8S_WG	to the extent enabling the revision of existing paradigms - global achievements covering theoretical foundations and general issues and selected specific issues relevant to a given scientific discipline
K_W02	P8S_WG	the main development trends of the disciplines in which education takes place
K_W03	P8S_WG	scientific research methodology
K_W04	P8S_WG	principles for disseminating the results of scientific activities, including open access
K_W05	P8S_WK	fundamental dilemmas of modern civilization
K_W06	P8S_WK	economic, legal, ethical and other important conditions of scientific activity
K_W07	P8S_WK	basic principles of knowledge transfer to the economic and social spheres and the commercialization of research results and the know-how associated with these results
Skils		**A doctoral student can:**
K_U01	P8S_UW	Use knowledge from various fields of science to creatively identify, formulate, and innovatively solve complex problems or perform research tasks, in particular: • define the purpose and subject of research and formulate a research hypothesis, • develop research methods, techniques, and tools, and apply them creatively, • draw conclusions based on research results.
K_U02	P8S_UW	critically analyze and evaluate the results of scientific research, expert activities and other creative works and their contribution to the

		development of knowledge
K_U03	P8S_UW	transfer the results of scientific activity to the economic and social spheres
K_U04	P8S_UK	communicate on specialized topics to a degree that allows for active participation in the international scientific community
K_U05	P8S_UK	disseminate the results of scientific activity, including in popular forms
K_U06	P8S_UK	initiate debate
K_U07	P8S_UK	participate in scientific discourse
K_U08	P8S_UK	use a foreign language at level B2 of the Common European Framework of Reference for Languages to a degree that allows participation in the international scientific community
K_U09	P8S_UO	plan and implement individual and team research or creative projects, also in an international environment
K_U10	P8S_UU	independently plan and act for one's own development and inspire and organize the development of others
K_U11	P8S_UU	plan and implement classes or groups of classes using modern methods and tools
SOCIAL COMPETENCES		**The doctoral student is ready to:**
Kfulfilling the social obligations of researchers and creators _K01	P8S_KK	critical evaluation of achievements within a given scientific discipline
K_K02	P8S_KK	critical evaluation of one's own contribution to the development of a given scientific discipline
K_K03	P8S_KK	recognizing the importance of knowledge in solving cognitive and practical problems
K_K04	P8S_KO	fulfilling the social obligations of researchers and creators
K_K05	P8S_KO	initiating activities in the public interest
K_K06	P8S_KO	thinking and acting in an entrepreneurial manner
K_K07	P8S_KR	maintaining and developing the ethos of research and creative communities, including: • conducting research independently, • respecting the principle

		of public ownership of research results, taking into account the principles of intellectual property protection

Legend: K_ - learning outcome code Underlined symbols: K - social competences U - skills W - knowledge 01,02,... - learning outcome number

Description of learning outcomes at the Doctoral School of the Częstochowa University of Technology

Semester I

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Research Methodology	K_W03 K_U01	15
2.	Statistical Methods of Data Processing	K_U01	15
3.	Metrology	K_U01	15
4.	Development of an Individual Research Plan	K_W01 K_W02 K_U01 K_U02 K_U09 K_U10 K_K01 K_K02 K_K03 K_K07	15
5.	Techniques of Writing and Editing Scientific Papers	K_W04 K_U01 K_U05	15
6.	Academic Presentation Techniques	K_W01 K_U01 K_U02 K_U07	15
		Total Number of Hours	**90**

Semester II

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Technical academic writing	K_W04	15

		K_U01 K_U04 K_U08	
2.	Methods of Obtaining Funds for Scientific Research	K_W01 K_W06 K_U01 K_U02	15
3.	Researcher Ethics, Copyright, and Intellectual Property Protection	K_W05 K_W06 K_K03 K_K04 K_K07	15
4.	Modern Engineering Materials (engineering and technical sciences)	K_W01 K_W02	15
	Quantitative and Qualitative Methods in Economic Research (social sciences)	K_W02 K_U02	
5.	Specialist Seminar	K_W01 K_W02 K_W03 K_U02 K_U04 K_U05 K_U06 K_K03	15
Total Number of Hours			**75**

Semester III

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Doctoral Seminar	K_W01 K_W02 K_W03 K_U01 K_U02 K_U06 K_K03	15
2.	Communicating science to non scientific audiences	K_U04 K_U07 K_U08	15

3.	Engineering Modeling and Calculations (engineering and technical sciences)	K_W01 K_W03 K_U01 K_U10	30
	Contemporary Concepts of Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_U10	
4.	Advanced Engineering Research Methods (engineering and technical sciences)	K_W01 K_W03 K_U01 K_K03	15
	Leadership in Organizational Management (social sciences)	K_W01 K_W03 K_U01 K_K03	
Total Number of Hours			**75**

Semester IV

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
Total Number of Hours			**25**

Semestr V

No.	Course Name	Learning Outcome Code	Number of Hours*
1	Commercialization of Research Results	K_W06 K_W07 K_U03 K_K05 K_K06	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
	Total Number of Hours		**25**

Semestr VI

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Specialist Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_K03	15
2.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07	10

		K_K03	
		Total Number of Hours	**25**

Semestr VII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
2.	Doctoral workshops	K_W01 K_W02 K_U01 K_U02 K_U06 K_U07 K_K01 K_K02 K_K03	10
		Total Number of Hours	**20**

Semestr VIII

No.	Course Name	Learning Outcome Code	Number of Hours*
1.	Thematic Doctoral Seminar	K_W01 K_W02 K_W03 K_W04 K_U02 K_U04 K_U05 K_U06 K_U07 K_K03	10
2.	Doctoral seminary	K_W01	5

		K_W02 K_W03 K_U01 K_U02 K_U06 K_K03	
		Total Number of Hours	**15**

Legend: **:*
w - lecture, k - discussion class, - laboratory, s - seminar; the type of classes conducted is indicated by the course coordinator.

Professional practice

Professional practice may be conducted by teaching classes at the University, participating in classes, or in another form determined by the head of the academic discipline in which the doctoral student is studying at the doctoral school. The duration of the professional internship cannot exceed 60 hours per academic year.

Year of education	**Type of professional practice**	Learning Outcome Code	Number of Hours**
1.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
2.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
3.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
4.	Name of the subject taught/co-taught*/other	K_U10, K_U11	60
		Total Number of Hours	**240**

Legend:

**Maximum number of hours per academic year.

Principles for Verifying Learning Outcomes

Education in SD is based on the curriculum and the IRP. All courses conclude with a graded credit, and the instructor informs students about the conditions and procedures for obtaining credit during the first class. The curriculum, along with the learning outcomes assigned to individual courses, was approved by the Senate. Until 2023, credits were entered into the doctoral student's index and entered into the USOS computer system. Currently, paper index have been discontinued, and semester credits are based solely on entries in the USOS system. The professional practice credit form is submitted annually – at the end of the academic year. Due to the inability to record certain activities in the USOS system, such as co-teaching classes by doctoral students or other forms of practice, this form still exists in paper format. Completing a professional practice guarantees the achievement of the P8S_UU outcome. Verification is performed by the course coordinator based on the scope of classes completed and confirmed by the Vice-Dean for Research. Some learning outcomes are achieved through the achievement of the objectives set forth in the IRP. These are discussed and analyzed during classes in the "Development of an Individual Research Plan" course and verified by the Head of SD in two stages: upon submission of the IRP draft for course credit, and upon submission of the IRP version approved by the supervisor(s) to the school's administrative office within the statutory deadline of 12 months from the commencement of study. One element of each IRP is familiarization with the current state of knowledge within the research topic being pursued, which ensures, among other things, the achievement of the following learning outcomes: P8S_WG, P8S_UO, P8S_UU, and P8S_KK. Verification is conducted during a focused seminar led by the Vice-Dean for Research. During the presentation, the doctoral student must provide justification for undertaking the topic by familiarizing themselves with the global achievements of scientists related to the proposed dissertation topic within the represented scientific discipline, and by developing a research schedule, present the research methodology. A discussion regarding the presentation is also held, which expands the scope of acquired skills, including participating in debate and communicating on specialized topics. The presentation is a necessary element for obtaining a credit, confirming the achievement of the assigned set of learning outcomes. These outcomes are achieved through, among other things, defining the topic, defining the objective, formulating research hypotheses, and critically analyzing the research results. These outcomes are verified during seminar classes. Furthermore, the doctoral student is obligated to plan active participation in the conference at the IRP and publish a scientific article (achieving outcomes P8S_UK, P8S_WG), the achievement of which must be confirmed in the annual IRP implementation report. The supervisor verifies the learning outcomes assigned to the IRP by preparing an opinion and personally signing the mandatory progress report on the doctoral student's scientific development and the implementation of the IRP. In the report, the doctoral student describes the degree of achievement of the goals set out in the IRP and submits it to the SD office to receive credit for the year.

The next stage in the verification of learning outcomes is the mid-term evaluation. During the presentation, the doctoral student presents the degree of achievement of the objectives set out in the IRP, and thus the assigned learning outcomes. Furthermore, the mid-term evaluation procedure, in the form of a presentation before the committee and a presentation of progress in implementing the research schedule included in the IRP, ensures the verification of learning outcomes: P8S_WG, P8S_UW, and P8S_UK. To meet the statutory requirement for a person applying for a doctoral degree to have at least one publication, doctoral students participate in national and international scientific conferences, achieving the P8S_WG, P8S_UW, P8S_UK, and P8S_KK outcomes. Conference participation, considered scientific achievements, is also reported in the IRP

implementation report submitted to the SD administrative office. Additionally, articles affiliated with the CUT are submitted to the internal publication database in the CUT main library.
The described method of verifying learning outcomes through the completion of the education programme and meeting the IRP assumptions allows for the achievement of learning outcomes in terms of knowledge, skills and competences at level 8 of the Polish Qualifications Framework.

Profiles of academic teachers teaching at the doctoral school representing the academic discipline of Management and Quality Sciences

1. Name and surname:
Felicjan Bylok

2. Academic degrees and titles (academic discipline, year of award):
1. Professor of Social Sciences (2016), discipline of Management and Quality Sciences, Sociological Sciences
2. Habilitated Doctor (2007) – Social Sciences – Discipline of Sociology
3. Doctor of Philosophy (1997) – Discipline of Sociology

3. Main areas of research interest:
human resource management, social capital in organizations, organizational sociology, sociology of consumption

4. Most important scientific publications (max. 10 items, since 2015):
1. Bylok F. (2024), Horizontal Trust and Intra-Group and Inter-Group Processes in Enterprises in Innovative Industries, Annales Universitatis Mariae Curie-Sklodowska, Sec. H, Oeconomia, Vol. 48(2),
2. Bylok F. (2024), Social Capital as a Facilitator of Knowledge Sharing in Innovative Companies, Procedia Computer-Science, vol.246, pp.1580-1588.
3. Bylok F. (2024), Social Capital Resources, Organizational Trust and Social Networks and their Mediating Role in the Development of Enterprises, Zeszyty Politechniki Śląskiej, Series Organization I Management, No. 207, pp.83-101.
4. Bylok F. (2023), Relations between Organizational Factors and Innovativeness of Large Enterprises in Poland, Procedia Computer-Science, vol.225, pp. 4024-4034.
5. Bylok F. (2022), Examining the Impact of Trust on the E-Commerce Purchase Intentions of Young Consumers in Poland, Journal of Internet Commerce, Vol. 21 (3), pp. 364-391.
6. Bylok F. (2022), Social Capital as a Factor Containing the SARS-Cov-2 Flu. Polish Case, Cogent Social Science, Vol. 8 (1), doi: 10.1080/23311886.2022.2035940
7. Bylok F., Kucęba R., Pietruszewski M. (2021), Personnel Risk Management in Energy Corporations. Scientific Society of Organization and Management TNOiK, Dom Organizacji Organizacjara, Toruń.
8. Bylok F. (2020), Organizational Social Capital. Theoretical and Empirical Aspects. Publisher Częstochowa University of Technology, Częstochowa.
9. Bylok F., Walczak-Duraj D., Swadźba U. (2016), Work and Consumption in the Perspective of Creating an Axionormative Order, Silesia Scientific Publishing House, Katowice.
10. Bylok F., Dąbrowska A., Janoś-Kresło M., Kiełczewski D., Odzimek I. (2015), Consumer Competencies. Innovative Behavior, Sustainable Consumption, Polish Economic Publishing House, Warsaw.

5. Participation in research projects, including project management funded by grants (since 2015):
• Consumption Behavior of Poles – 2024 – project management
• Social Capital and Knowledge Sharing in Contemporary Organizations – 2022 – project management
• New Trends in Human Resource Management in Large Enterprises – 2019 – project management

6. Supervision and Completed Doctorates (Academic Discipline, Dissertation Topic, Year of Defense)
1. Management and Quality Sciences - Managing Cooperation between Local Authorities, Universities, and Enterprises and the Innovation of the Local Economy – 2016 – Tomasz Odzimek
2. Management and Quality Sciences - EU Projects in Managing the Development Processes of Municipalities in the Silesian Voivodeship – 2014 – Radosław Ostałkiewicz
3. Management and Quality Sciences - Consumption Behavior Patterns of Young Female Residents of Częstochowa – 2016 – Anna Karczewska

7. International activity (since 2015):
1. Organizer and co-organizer of the cyclical international scientific conferences entitled: International Conference of Management (ICoM) with foreign partners: Szent Istvan University of Godollo (Hungary), John Newman University (Hungary), Mendel University in Brno (Czech Republic), Slovak University of Agriculture in Nitra (Slovakia) in 2015, 2016, 2017, 2018, 2019, 2023, 20224, 2025).

Active participation in international conferences:
1. The European Conference on Research Methodology for Business and Management (Valletta – 2015),
2. The European Conference on Research Methodology for Business and Management (London – 2016),
3. The European Conference on Research Methodology for Business and Management (Rome – 2018)
4. The International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (Athens – 2023)
5. The International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (Seville – 2024)
6. The International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (Osaka – 2025)
7. The European Conference on Knowledge Management (ECKM) (Lahti- 2025)
8. The European Conference on Knowledge Management (ECKM) (Naples- 2024),
9. The European Conference on Knowledge Management (Lisbon – 2023),
10. The European Conference on Knowledge Management (ECKM) (Coventry – 2021),
11. The International Conference on Intellectual Capital, Knowledge Management & Organizational Learning (ICICKM) (Sydney 2019)
12. The European Conference on Management Leadership and Governance (Lisbon – 2015)
13. The European Conference on Management Leadership and Governance (Bucharest – 2016)
14. The European Conference on Management Leadership and Governance (Porto – 2019)
15. The Second International Conference on Economic and Business Management (FEBM 2017 – Shanghai)

8. Other

1. Name and surname:
DOROTA JELONEK

2. Academic degrees and titles (academic discipline, year of award):
2019 Academic title of Professor of Economics President of the Republic of Poland Poland
2011 Postdoctoral degree in economics, in the discipline of management science Faculty of Management, Computer Science and Finance, Wrocław University of Economics
2000 Ph.D. in economics Faculty of Management, Częstochowa University of Technology

3. Main areas of research interests:
Solving problems related to the implementation of management information systems in organizations
Organizational management support systems Innovation,
innovation design, open innovation, prosumption
Information process management Improving management information processes
Computer-aided monitoring of the business environment

4. Most important scientific publications (max. 10 items, since 2015):
Jelonek D., Graczyk-Kucharska M., Wyrwicka M., Olszewski R., "Customer Segmentation and Anticipation of Consumer Behaviors Based on Machine Learning and CART," Emerging Challenges in Intelligent Management Information Systems (ed.) Marcin HERNES, Jarosław WĄTRÓBSKI, Cham, Springer, 2024, pp. 156-165. European Conference on Artificial Intelligence (ECAI), Krakow, Poland (September 30 to October 4, 2023).
Jelonek D., Rzemieniak M., "The Use of Artificial Intelligence in Activities Aimed at Sustainable Development - Good Practices," Artificial Intelligence. ECAI 2023 International Workshops. Part 2 (ed.) Sławomir Nowaczyk, Przemysław Biecek, Christopher Neo Chung, Mauro Vallati, Paweł Skruch, Joanna Jaworek-Korjakowska, Simon Parkinson, Alexandros NIKITAS, Cham, Springer, 2024, pp. 277-284. European Conference on Artificial Intelligence (ECAI), Krakow, Poland (September 30 to October 4, 2023).
Jelonek D., Walentek D., Exemplifying the Zero Waste Concept in Smart Cities, Economics and Environment, 2022, DOI: 10.34659/eis.2022.81.2.462
Jelonek D., Stępniak C.; Wyrwicka M. Chomiak-Orsa I., Integration of the Infrastructure of Systems Used in Smart Cities for the Planning of Transport and Communication Systems in Cities, Energies, 2021, DOI: 10.3390/en14113069
Hajduk S., Jelonek D., A Decision-Making Approach Based on TOPSIS Method for Ranking Smart Cities in the Context of Urban Energy, Energies, 2021, DOI: 10.3390/en14092691
Jelonek D., Moczała A., Innovation Design Methods and Techniques, Polish Economic Publishing House, 2020
Jelonek D., Information Systems for Enterprise Management. Perspectives on Strategy and Value Creation, Polish Economic Publishing House, 2018.
Jelonek D., The Evolution of Customer Relationship Management System, Recent Advances in "Computer Engineering Series" No. 32, 19th International Conference on Computers (Part of CSCC'15), Zakynthos Island, Greece, July 16-20, 2015, pp. 29-33, ISSN 1790-5109; ISBN: 978-1-61804-320-7
Jelonek D., The Innovative Potential of Prosumption and the Results of Enterprises, 7th Conference on Performance Measurement and Management Control, 2013, ISSN: 2295-1660
Jelonek D., Dunay A., Illes Csaba B., Academic E-learning Management with E-learning Scorecard, Polish Journal of Management Studies, "Polish Journal of Management Studies", 2017, 16 (2), pp. 122-132, ISSN: 2081-7452,

5. Participation in research projects, including project management financed by grants (since 2015):
"BE CREATIVE – Human Resource Development for the Business Services Sector" Implemented under the Knowledge, Education, and Development Operational Programme, co-financed by the European Social Fund. Contract No.: POWR.03.01.00-00-0008/17 Project Leader: Częstochowa University of Technology, Faculty of Management Partner: Syntea SA Date: 2018-2019 Project Value: PLN 1,078,264.76 Position: Project Manager "Curriculum Development of a Master's Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry" Project number: 586137-EPP-1-2017-1-TH-EPPKA2-CBHE-JP Deadline: October 15, 2017 - October 14, 2020 Competition type: Erasmus+ Capacity Building in Higher Education - Call for Proposals EAC/A03/2016 Project leader: Asian Institute of Technology Partners: universities in Thailand – Chiang Mai University, King Mongkut's University of Technology North Bangkok, Thammasat University, Khon Kaen University, Prince of Songkla University, University Politechnica of Bucharest, University of Minho, Czestochowa University of Technology Coordinator on behalf of the Faculty of Management of Częstochowa University of Technology: Tomasz Nitkiewicz, PhD, DSc, Eng., Prof. PCz Role: Contractor Project

6. Supervision and completed doctoral dissertations (discipline, dissertation topic, defense year)
Anna Nowacka, discipline: Management and Quality Sciences, "Digital Transformation of Human Resource Management in Enterprises", 2024
Dorota Walentek, discipline: Management and Quality Sciences, "Models of Managing Remote Workers", 2023
Aida Stępniak-Mirzejewska, discipline: Management and Quality Sciences, "Stakeholder Participation in the Management of Philharmonics",2023
Kamila Tomczyk, discipline: Management and Quality Sciences, "Competitiveness of Cooperative Banks in the Condition of Digital Transformation", 2023
Katarzyna Szkop, discipline: Management and Quality Sciences, "Managing Relational Capital in Commercial Banks" Office Real Estate, 2022
Roksana Włodarczyk, discipline: management science, "Marketing innovations in the market of traditional and regional products," 2019.
Łukasz Nęcki, discipline: management science, "E-business models and the competitiveness of enterprises in the corrugated cardboard processing industry," 2018.
Maciej Sobociński, discipline: management science, "The role of virtual communities in brand building based on the example of the multimedia computer software industry," 2017.
Małgorzata Bokwa, discipline: management science, "Strategic management of education in local government units of the Silesian Voivodeship," 2017.
Sławomir Karoń, discipline: management science, "Managing relational capital in hospitals," 2016. Wioletta Sołtysiak, discipline: management science, "Managing the processes of knowledge codification and personalization in academic e-learning." 2016
Radosław Ostałkiewicz, discipline: management science, "EU projects in the management of development processes of municipalities in the Silesian Voivodeship," 2014
Andrzej Chluski, discipline: management science, "Information technologies in managing the development of hospital intellectual capital," 2012

7. International activity (since 2015):
Research internships:
1. Nigata University (Japan) Period: 2017 (2 weeks)

2. Department of Business Economics and Management of the Faculty of Economics and Social Sciences of Szent István University in Gödöllő, Godollo, Hungary, Period: 2017 (4 weeks)
3. Department of Business Economics and Management of the Faculty of Economics and Social Sciences of Szent István University in Gödöllő, Godollo, Hungary, Period: 2015 (2 weeks)

Reviewer in international journals and conferences:
"Interdisciplinary Journal of Information, Knowledge, and Management" ISSN: 1555-122; oOnline ISSN: 1555-1237 (Scopus, ProQuest, EBSCOhost), 2015 - 2017
"Egyptian Computer Science Journal, ISSN: 1110-2586, 2025=2020
"Interdisciplinary Journal of e-Skills and Lifelong Learning, ISSN: 2375-2092; online ISSN: 2375-2084 (ProQuest, EBSCOhost), 2017-2019
"Journal of Information Technology Education: Innovations in Practice JITE:IIP" ISSN: 2165-3151; online ISSN: 2165-316, (ProQuest, EBSCOhost), 2026-2020

The Proceedings of Federated Conference on Computer Science and Information Systems FedCSIS (2012-2016), SCImago Journal Rank (Scopus® database – Elsevier), 2014-2023
The Proceedings of International Conference on Enterprise Information Systems ICEIS, SCImagFBeo Journal Rank (Scopus® database – Elsevier), 2016 - 2023
The Proceedings of European Conference on Social Media ECSM, indexed in WoS, 2017-2019
The Proceedings of Informing Science and IT Education Conference InSITE, 2016-2024
Proceedings of the e-Skills for Knowledge Production and Innovation Conference,

Informing Science Institute Memberships in international organizations and associations:
1. Informing Science Institute (ISI), USA, period: 2014 – present
2. The Science and Information (SAI) Organization, period: 2017 – present

Participation in international expert teams Member of the International Expert Group, whose goal was to conduct an expert review of the decentralized socio-economic network "FeePe" and joint research on the functioning and improvement of the network, as well as to establish the public organization "FeePe Foundation", Częstochowa (Poland) – Poltava (Ukraine), 2016. 8.

Other:

1. Name: Anna Lemańska-Majdzik

2. Academic degrees and titles (discipline, year of award):
Ph.D., Eng., Professor, Management and Quality Sciences, 2019

3. Main areas of research interest:
My research achievements fall within the discipline of Management and Quality Sciences and primarily concern the management of SMEs, their competitiveness and organizational flexibility, knowledge management, and innovation.

4. Most important scientific publications (max. 10 items, since 2015):
1. Lemańska-Majdzik A., Okręglicka M., Entrepreneurial Orientation and Knowledge Integration: the Case of Mature Companies, Proceedings of the 26th European Conference on Knowledge Management. Vol. 26 no. 1 (ed.) Kianto A., Toth I., European Conference on Knowledge Management, Lahti, Finland (September 4–5, 2025), Academic Conferences and Publishing International Limited, 2025, pp. 586–593.
2. Lemańska-Majdzik A. (2024), Strengthening Customer Relationships and the Development Potential of Service Enterprises, Scientific Papers of the Silesian University of Technology. Organization and Management Series, no. 194, pp. 233–244.
3. Lemańska-Majdzik A., Okręglicka M. (2024), The Role of Knowledge-Based Resources in Building Organizational Flexibility, Annales Universitatis Mariae Curie-Skłodowska, Sec. H Oeconomia, Vol. 58, pp. 65–78.
4. Lemańska-Majdzik A. (2023), Knowledge Management in Enhancing Organizational Flexibility in Manufacturing Enterprises, Proceedings of the 24th European Conference on Knowledge Management. Vol. 24 No. 1 (ed.) MATOS Florinda, ROSA Alvaro, pp. 810-817.
5. Lemańska-Majdzik A. (2023), The Level and Changes of Digital Skills in Generation Z - the Perspective of the Impact of the COVID-19 Pandemic, Transformations in Business & Economics, Vol. 22, pp. 691-702.
6. Lemańska-Majdzik A. (2022), Digital Competences of Human Resources of Organizations and Competitiveness of SME Enterprises. Scientific Journals of the Silesian University of Technology. Organization and Management Series, No. 159, pp. 203-214.
7. Lemańska-Majdzik A. (2022), Actions for Knowledge Integration Capability in Building an Innovative Enterprise: Organizational Perspective, Proceedings of the 23rd European Conference on Knowledge Management. Vol. 23 no. 2 (ed.) CENTOBELLI Piera, CERCHIONE Roberto, pp. 750-756.
8. Okręglicka M., Lemańska-Majdzik A., Pichugina M., Artemenko L. (2021), Entrepreneurial Orientation and Organizational Flexibility of Small and Medium-Sized Enterprises in a Pandemic Crisis, Częstochowa: Publishing Office of Częstochowa University of Technology.
9. Lemańska-Majdzik A. (2019), Organizational Flexibility in a Family Enterprise, Częstochowa: Częstochowa University of Technology Publishing House.
10. Ivanová E., Lemańska-Majdzik A. (2016), The Business Environment of the Small and Medium-Sized Sector in Poland and the Slovak Republic, Vienna/Berlin: Mercur Verlag.

5. Participation in research projects, including project management funded by grants (since 2015):
Project participant: Grant Agency VEGA [No. 1/0918/16]: Risk management of SMEs in the context of clusters' involvement activities in the Slovak Republic; Project implementation period: January 2016–December 2018.

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense)

1. Management and Quality Sciences, M.Sc. Eng. Adrian Machajski, Functional Flexibility of Organizations and the Job Satisfaction of People with Disabilities in the Open Labor Market, 2022.
2. Management and Quality Sciences, Joanna Lerche, M.A., Flexible Building of Relational Capital and the Competitiveness of Family Businesses, 2024.

7. International Activities (since 2015):
1. 3-month research internship abroad (June 1–August 31, 2016) at the Department of Economics and Business Administration, Faculty of Socio-Economic Relations, Alexander Dubček University of Trenčín in Trenčín, Slovakia.
2. 2-week research internship abroad (March 6–March 20, 2017) at the Department of Management, National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" in Ukraine.
3. Teaching (8 hours) in English at the Faculty of Economics and Management at Kaunas University of Technology in Kaunas, Lithuania, September 24-28, 2018, as part of the Erasmus+ program.
4. Teaching (8 hours) in English at Alexander Dubček University of Trenčin, Slovakia, September 23-27, 2019, as part of the Erasmus+ program.
5. Participation in the 2nd International Staff Week "Digital-Network-In" organized online by Uşak University, Turkey, March 16-17, 2021, as part of the Erasmus+ program.
6. Teaching (8 hours) in English at Alexander Dubček University of Trenčin, Slovakia, May 9-13, 2022, as part of the Erasmus+ program.
7. Teaching 8 hours in English at the Lithuania Business University of Applied Sciences in Klaipėda, Lithuania, May 29–June 2, 2023, as part of the Erasmus+ program.

8. Other:

1. Name and surname:
Agata Mesjasz-Lech

2. Academic degrees and titles (discipline, year of award):
PhD, management sciences, 2004,
habilitation, management sciences, 2012

3. Main areas of research interest:
logistics, environmentally oriented logistics concept, sustainable entrepreneurship, corporate social responsibility, waste management

4. Most important scientific publications (max. 10 items, since 2015):
• MESJASZ-LECH Agata, KEMENDI Agnes, MICHELBERGER Pal, Circular Manufacturing and Industry 5.0. Assessing Material Flows in the Manufacturing Process in Relation to E-waste Streams, Engineering Management in Production and Services, Vol. 16, Issue 1. 1, 2024, pp. 114-133
• MESJASZ-LECH Agata, "E-waste Society – the Negative Effects of the Development of the Information Society," Procedia Computer Science, Vol. 246, 2024, pp. 2244-2253 • MESJASZ-LECH Agata, "Greenwashing and Corporate Environmental Irresponsibility – Improper Practices of Companies," Scientific Papers of the Silesian University of Technology. Organization and Management Series, no. 186, 2023, pp. 433-448
• MESJASZ-LECH Agata, MICHELBERGER Pal, KEMENDI Agnes, "Industry 4.0 and 5.0 – Organizational and Competency Challenges of Enterprises," Polish Journal of Management Studies, Vol. 26, No. 2, 2022. • MESJASZ-LECH Agata, WŁODARCZYK Aneta, The Role of Logistics Infrastructure in Development of Sustainable Road Transport in Poland, Research in Transportation Business and Management, Vol. 44, 2022.
• MESSIASZ-LECH Agata, MICHELBERGER Pal, KEMENDI Agnes, ICT Security in Businesses - Efficiency Analysis, Entrepreneurship and Sustainability Issues, Vol. 9, No. 1, 2021.
• MESJASZ-LECH Agata, WŁODARCZYK Aneta, Ecological and Economic Context of Managing Enterprises That Are Particularly Harmful to the Environment and the Well-Being of Society, Energies, Vol.14, Iss. 10, 2021.
• MESJASZ-LECH Agata, Municipal Urban Waste Management - Challenges for Polish Cities in an Era of Circular Resource Management, Resources-Basel, Vol. 10, Issue 6, 2021. • MESJASZ-LECH Agata, Logistics Performance of European Union Markets: Towards the Development of Entrepreneurship in the Transport and Storage Sector, Global Journal of Environmental Science and Management-GJESM, vol. 5(SI), 122-130.
• MESJASZ-LECH Agata, Factors Determining the Recovery Rate of End-of-Life Vehicles in the Context of Reverse Logistics - A Model Approach, Scientific Papers of the Silesian University of Technology, pp. Organization and Management, no. 88, no. 1948, 2016, pp. 219-233.

5. Participation in research projects, including project management funded by grants (since 2015):
Participant in "The Mutual Project: A bilateral research of change management methods in Polish and Hungarian enterprises in the context of digitalization and the coronavirus epidemic," a project funded by the Hungarian National Office for Research, Development, and Innovation. Project registration number 2019-2.1.11-TÉT-2020-00167, 2019-2023.
Project participant: Knowledge Management Models in Networks and Clusters of Creative Industries in Poland and EU Countries, National Science Centre research project: PBU37/ROZ4/2013, Silesian University of Technology, 2014-2017

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
• Management and Quality Studies, Arkadiusz Szymański, Tourism Project Management
• Building the Competitive Advantage of Municipalities, 2024
• Management and Quality Studies, Monika Złoto-Małolepszy, Management of Transport Enterprises and Environmental Governance, 2024
• Management and Quality Studies, Karolina Ryś, Business Process Automation in an Enterprise in the Modern Business Services Sector, 2024
• Management and Quality Studies, Maciej Kokotek, Project Management in Municipalities and Conditions for Entrepreneurship Development, 2023
• Management and Quality Studies, Monika Chłąd, Management of Transport Processes in Enterprises Production, 2022
• Management and Quality Sciences, Marlena Wilk, Logistics Management and the Development of Tourism Enterprises in Selected European Union Countries, 2019
• Management and Quality Sciences, Anna Budzik, Animal Transport Management in the Aspects of Sustainable Development, 2018
• Management and Quality Sciences, Magdalena Scherer, Neural-Fuzzy Systems in Reverse Logistics Management in a Manufacturing Enterprise, 2016

7. International Activities (since 2015):

Research internship at the Faculty of Business and Management, Keleti Karoly University, Obuda, Budapest, from June 19 to July 18, 2023.
LLP-ERASMUS stay at Valahia University of Târgovişte (Romania), duration: October 6, 2017 - October 20, 2016.
LLP-ERASMUS stay at the University of Economics in Bratislava, based in Košice (Ekonomická univerzita v Bratislave), Slovakia, duration: November 30 - December 4, 2015.
Member of the Editorial Board of the International Journal of Human Capital in Urban Management. Member of the European Association of Environmental and Resource Economists, 2011 - present.
Reviews of articles in journals and conference materials for, e.g.:
• Environment, Development and Sustainability,
• Journal of Cleaner Production,
• Journal of Waste Management and Disposal (JWMD),
• Waste Management, • Waste Management and Research,
• 7th IEEE International Conference on Advanced Logistics and Transport (IEEE ICALT'2019), June 14-16, 2019, ENSA Marrakech (University Cadi Ayayd), in cooperation with the University of Sfax (Tunisia) and the University Polytechnique Hauts-de-France (France)
• IEEE International Conference on Advanced Logistics and Transport (IEEE ICALT'2015), France, Paris, May 20-22, 2015
• 10th IEEE International Conference on Service Operations and Logistics, and Informatics (IEEE SOLI 2015), Tunisia, November 15-17th, 2015.

8. Other:

1. Name and surname:
Arnold Pabian

2. Academic degrees and titles
- M.Sc. Eng., Częstochowa University of Technology (1983)
- Ph.D. in economics, Wrocław University of Science and Technology (1986)
- Habilitated Ph.D. in economics in the field of economics and business organization, University of Economics in Katowice (currently University of Economics in Katowice) (1993)
- Title of professor of economics awarded by the President of the Republic of Poland in 2011.

3. Main areas of research interests
Management, International and Global Management, Sustainable Management, Marketing, International and Global Marketing, Sustainable Marketing, Multisensory Marketing

4. Major scientific publications since 2015

Books, monographs
A. Pabian, B. Pabian, Multiculturalism in Higher Education. Managing and Communicating with Foreigners from the Perspective of Cultural Differences, PWN, Warsaw 2019
A. Brzozowska, A. Pabian, B. Pabian, Sustainability in Project Management. A Functional Approach, Taylor & Francis Group, Boca Raton, New York, London 2021.
A. Brzozowska, S. Brzeziński, Arnold Pabian, Barbara Pabian, Managing Customer Relationships Using Customer Care Techniques, Taylor & Francis Group, Boca Raton, London, New York 2024.

Articles
Arnold Pabian, Katarzyna Bilińska-Reformat, Barbara Pabian, Future of Sustainable Management of Energy Companies in Terms of Attitudes and Preferences of the Younger Generation, “Energies” Vol. 14 Issue 11, 2021, 14 pp. (140 p.).
Arnold Pabian, Barbara Pabian, Profile of a Sustainable Manager from the Perspective of Pro-Ecological and Pro-Social Management of an Energy Company, “Energies” Vol. 15 Iss. 4, 2022, 16 pp. (140 pp.).
Arnold Pabian, Barbara Pabian, The Role of Social Media in Managing Knowledge of the Young Generation in the Sustainability Area, “Sustainability” Vol. 15 Iss. 7, 2023, pp. 1-16 (100 pp.).
B. Pabian, A. Pabian, Challenge or Opportunity? Preferences and Behaviors of Ukrainian Youth in the Light of the Theory of Cultural Dimensions, “Perspektywy Kultury” 2024, Vol. 44, No. 1, 397-408 (100 pp.).
B. Pabian, A. Pabian, "A Sketch for a Discussion on the Issue of Ethics in Business," "Journal of Modern Science" 2024, Vol. 1, No. 55, pp. 236-249 (100 pp.).
A. Pabian, "Components of a Sustainable Manufacturing Enterprise as a Result of Sustainability-Based Management," "Przegląd Organizacji" 2025, No. 1, pp. 55-63 (40 pp.).
B. Pabian, A. Pabian, "Time Management for Online Activity – Dilemmas and Challenges," "Journal of Modern Science" 1/61/2025, pp. 206-219 (100 pp.).

5. Participation in Scientific Projects
Member of the Steering Committee – Project entitled: Integrated Development Program of the Częstochowa University of Technology. Contract No.: POWR.03.05.00-00-Z008/18-00.

The program is implemented as part of the Knowledge Education Development Operational Program, co-financed by the European Social Fund (letter dated June 11, 2019). Until the end of the Vice-Rector's term, i.e., August 31, 2020. BS implemented by the Faculty of Management and the Department of Marketing and Communication

6. Supervision and completed doctoral theses
1 Krzysztof Ratman Marketing Strategies for Pharmaceutical Products and Sales Results 2005
2 Anna Knapik Integration of Promotional Instruments in Marketing Impact on the Pharmaceutical Market 2006
3 Magdalena Syrkiewicz-Świtała The Impact of Public Relations on New Forms of Employment in Clinical Hospitals 2007
4 Tomasz Trojanowski Marketing Activities of Polish Food Enterprises on Foreign Markets 2008
5 Agata Krukowska-Miler Value-Based Marketing in the Management of Private Healthcare Facilities in the Silesian Voivodeship 2009
6 Anna Zelga-Szmidla Sales Management in Fat Industry Enterprises 2010
7 Marta Daroń Managing Partner Relationships in the Distribution Channels of Clothing Industry Enterprises 2012
8 Artur Sawicki Managing Promotional Activities by County Offices of the Silesian Voivodeship from a Functional Perspective 2019
9 Anna Kurzak-Mabrouk Sustainable Promotional Activities of Large Food Industry Enterprises 2019
10 Krzysztof Ponchała, Managing Professional Development of Teachers in Public Secondary Schools in the Silesian Voivodeship, 2019
11 Julia Szlenk, Managing Tourism for People with Disabilities and Mobility Impairments through Travel Agencies, 2020
12 Paweł Cichowski, Innovations in the Management of Municipal Housing Resources in the City of Częstochowa, 2022

7. International Activities Since 2015
Participation in International Conferences with Papers
1. 28th Annual SEAANZ Conference. Rhetoric and Reality: Effective Management of Small to Medium Enterprises, July 1-3, 2015, Melbourne, Australia.
2. Global Leadership and Management Conference, University of Riverside, USA, September 11-12, 2015.
3. 11th European Conference on Management Leadership and Governance ECMLG 2015, Military Academy, Lisbon, Portugal, 12-13 November 2015,
4. 6th International Conference: Human Computing, Education & Information Management System (ICHCEIMS 2017), Vancouver, Canada, September 11-12, 2017.
5. 8th Academic International Conference on Business, Marketing and Management – AICBMM 2018, Boston, USA, July 16-18, 2018.
6. 10th International Conference on E-business, Management and Economics (ICEME 2019), Beijing University of Technology, Beijing, China, July 15-17, 2019.
7. 16th SCF International Conference on "Sustainable Development in a Global Perspective" organized by SCF Society in collaboration with Bandirma Onyedi Eylul University, Faculty of Economics and Administrative Sciences in Istanbul, Turkey, on April 28-29, 2023.
8. Participation in the Erasmus+ Staff Mobility for Teaching program, June 19-23, 2023, at Bandirma Onyedi Eylul University (Bandirma, Turkey).

Profiles of academic teachers teaching at the doctoral school representing the scientific discipline of Technical Computer Science and Telecommunications

1. Name:

Janusz Bobulski

2. Academic degrees and titles (academic discipline, year of award):
Dr. Hab. Eng., Prof. PCz.

3. Main areas of research interest: image processing and recognition, artificial intelligence, big data, computer vision

4. Most important scientific publications (max. 10 items, since 2015):
1. J. Bobulski, S. Szymoniak, and K. Pasternak, "Safe data transmission in IoT system for air pollution monitoring," 2023 IEEE International Conference on Big Data (BigData), Sorrento, Italy, 2023, pp. 5438-5443, doi: 10.1109/BigData59044.2023.10386637.
2. M. Kubanek, J. Bobulski and L. Karbowiak, "Interpreting and understanding the image using deep learning and imprecise information from the monitoring system," 2023 IEEE International Conference on Big Data (BigData), Sorrento, Italy, 2023, pp. 6183-6185, doi: 10.1109/BigData59044.2023.10386868.
3. Bobulski, J., A Blockchain System for Fake News Detection. In: Park, J.S., Takizawa, H., Shen, H., Park, J.J. (eds) Parallel and Distributed Computing, Applications and Technologies. PDCAT 2023. Lecture Notes in Electrical Engineering, (2024) vol 1112. Springer, Singapore. DOI https://doi.org/10.1007/978-981-99-8211-0_1
4. Kubanek M., Karbowiak L., Bobulski J., Detection of Dangerous Situations Near Pedestrian Crossings using In-Car Camera, 31st International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision WSCG 2023 Plzen, Czech Republic May 15 – 19, 2023
5. Kubanek M., Bobulski J., Karbowiak L., Intelligent Identity Authentication, Using Face and Behavior Analysis, Proceedings of the ETHICOMP 2022, Effectiveness of ICT ethics – How do we help solve ethical problems in the field of ICT?, Eds. Jani Koskinen, Kai K. Kimppa, Olli Heimo, Juhani Naskali, Salla Ponkala and Minna M. Rantanen, University of Turku, Turku School of Economics, Turku, Finland, pages 42-51, 2022.
6. Karbowiak L., Bobulski J., Background segmentation in difficult weather conditions (2022) PeerJ Computer Science, 8, pp. 1 - 33, DOI: 10.7717/peerj-cs.962J. Bobulski, M. Kubanek, Robot for plastic garbage recognition, International Journal of Electrical and Computer Engineering (IJECE), vol. 12 (3), 2022.
7. Bobulski J., Kubanek M., Autonomous Robot for Plastic Waste Classification, 4th International Conference on Intelligent Human Systems Integration: Integrating People and Intelligent Systems (IHSI 2021), February 22-24, Advances in Intelligent Systems and Computing, vol 1322, pp 371-376, 2021, Palermo, Italy, 2020.
8. Bobulski J., Kubanek M.: CNN use for plastic garbage classification method, 25TH ACM SIGKDD Conference On Knowledge Discovery And Data Mining, Workshop on Data Mining and AI for Conservation, August 4-8, 2019, Anchorage, Alaska, USA.
9. Bobulski J., Kubanek M., Kulawik J.: The method of waste classification based on triple histogram, International Conference on Digital Image and Signal Processing (DISP 2019), April 29-30, 2019, St Hugh's College, University of Oxford, Oxford, United Kingdom.
10. Bobulski J., Multimodal face recognition method with two-dimensional hidden Markov model, Bulletin of the Polish Academy of Sciences Technical Sciences. Volume 65, Issue 1, Pages 121–128, February 2017.

5. Participation in scientific projects, including project management funded by grants (since 2015):
• PLATON - Scientific Services Platform, HD Science Television Service 2012–2017, contractor
• AI Architect in the project "Implementation of research and development work leading to the development of innovative machine learning algorithms tailored to the specifics of the Clemens.pl trading platform" 2019–2020, contractor

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense)

7. International activities (since 2015):
Monthly scientific internship at Universitat Politécnica de Valencia, Spain, October 2019.
Monthly scientific internship at Universidade Federal De São Paulo, São Paulo, Brazil, September 2022.

8. Other:

1. Name and surname:
Marcin Korytkowski

2. Academic degrees and titles (discipline, year of award):
Prof. (2025)
PhD (2007)
Hab. (2017) M.Sc. E
ng. 2002 Field of engineering and technical sciences / technical computer science and telecommunications

3. Main areas of research interest:
Artificial Intelligence, Cybersecurity, Cloud Systems, Database Systems

4. Most important scientific publications (max. 10 items, since 2015):
1. Korytkowski M., Advanced Techniques of Artificial Intelligence in IT Security Systems, Studies in Big Data, Springer 2024.
2. Nowak J., Korytkowski M., Wozniak M., Scherer R. Discovering Sequences in Systems Logs by Neural Networks. International Joint Conference on Neural Networks (IJCNN)., 17(2), 2020, 69-76.
3. Nowak J., Milkowska K., Scherer M., Talun A., Korytkowski M. (2020). Job Offer Analysis Using Convolutional and Recurrent Convolutional Networks. In: ICAISC 2020, Part II 19 (pp. 380-387). Springer.
4. Połap D., Wozniak M., Korytkowski M., Scherer R. (2020, November). Encoder-Decoder based CNN structure for microscopic image identification. In International Conference on Neural Information Processing (pp. 301-312). Cham: Springer International Publishing.
5. Nowak J., Korytkowski M., Scherer R. (2019). Convolutional recurrent neural networks for computer network analysis. In Artificial Neural Networks and Machine Learning–ICANN 2019, Proceedings, Part IV 28 (pp. 747-757). Springer International Publishing.
6. Nowak J., Holotyak T., Korytkowski M., Scherer R., Voloshynovskiy S. (2020). Fingerprinting of URL logs: continuous user authentication from behavioral patterns. In Computational Science–ICCS 2020: 20th International Conference, Amsterdam, The Netherlands, June 3–5, 2020, Proceedings, Part IV 20 (pp. 184-195). Springer International Publishing..
7. Korytkowski M., Nowak J., Scherer R., Detecting Sensitive Data with GANs and Fully Convolutional Networks, Asian Conference on Intelligent Information and Database Systems, Springer, 2023, pp. 273-283.
8. Korytkowski M., Scherer R., Szajerman D., Połap D., Woźniak M., Efficient visual classification by fuzzy rules. In IEEE International Conference on Fuzzy Systems (FUZZ-IEEE),2020,(pp. 1-6). IEEE.
9. Wei Wei, Qiao Ke, Jakub Nowak, Marcin Korytkowski, Rafał Scherer, Marcin Woźniak, Accurate and fast URL phishing detector: A convolutional neural network approach, Computer Networks, Volume 178, 2020
10. Nowak J., Nowak T., Połcik Sz., Korytkowski M., Drozda P., Scherer R. (2019). Reconstruction of Images Transmitted over LoRa Networks Using Fully Convolutional Neural Network. In 33rd International Conference On Information Systems Development. (ISD2025 BELGRADE, SERBIA)

5. Participation in research projects, including project management funded by grants (since 2015):

"Traffic Watchdog 2.0 – a system for verification and protection against fraudulent activities in online marketing (ad frauds) using artificial intelligence technology and virtual fingerprinting," POIR.01.01.01-00-0241/19-02, project role: Consultant for deep artificial neural networks, (2019-2021)
"Development and market implementation of the innovative Smart Privacy Guard tool for conducting security audits of personal data and network resources, based on machine learning algorithms," Regional Operational Programme of the Lodz Voivodeship, Sub-Measure: I.2.2 Enterprise R&D Projects, Intigo Sp. z .o.o., Project Role: R&D Manager, (2020-2021)

"Development of an Automated System Using Artificial Intelligence for Multi-Channel Recruitment Advertising and Real-Time Bidding Operations Using Recurrent Neural Networks and Generative Adversarial Networks," NCBiR, Project Role: R&D Manager

"Conducting R&D Work for the Development of an Automated Intelligent Data Classifier (IDC) System Using Artificial Intelligence Algorithms to Classify Documents Based on Their Content to Ensure Information Security," NCBiR, Project Role: Data Science Expert, (2020-2022)

"Predictive, Personalized, and Effective People and Work Analytics: Development of Artificial Intelligence Algorithms Using Deep Neural Network Learning and Employee Interaction Data to Predict Turnover and Retention in the People & Work Analytics Area" FENG.01.01-IP.02-0545/23, activity 1.1. SMART Path, role in the project: R&D Manager

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
Dr. Eng. Jakub Nowak, Engineering and Technical Sciences / Technical Computer Science and Telecommunications, 2021

7. International Activities (since 2015):
a) Study visit to the University of Geneva, November 13-21, 2019
b) Study visit to Imperial College London, Electronic and Electrical Engineering Department, January 14-22, 2020

8. Other:

Serves as the Voivode of Łódź's Representative for the Digitalization of Public Administration

Infrastructure Projects A significant portion of my scientific achievements consists of implementing R&D projects in production environments. Particularly noteworthy is the establishment of the country's first Local Competence Center, which currently encompasses six local governments from three voivodeships: Łódź, Silesia, and Greater Poland.

PI1. "Eleader - an opportunity to combat digital exclusion for residents of the municipalities of Moszczenica, Ujazd, Będków, and Czarnocin" (PLN 13 million, POIG 8.3, WWPE). Project role: Project Coordinator on behalf of the Consortium of Municipalities, author of project documentation, administrator of the developed systems. As part of the project:
• 514 households received computer equipment in the form of laptops and subscriber terminals, as well as Internet access,

• 195 km of broadband Internet network was built, including approximately 70 km of fiber-optic network,
• A fully redundant network infrastructure based on Windows Server machine virtualization was built,
• 19 public sector entities received funding for Internet access,
• 57 computer systems were purchased for Local Consultation Points (LPK). 1,000 smart cards were issued to enable internet access at LPK.
• Four modern servers with software were purchased, and the management of network services in schools and offices was centralized.
• The network was secured with two hardware firewalls.
• The network was connected to the internet via three symmetrical links, each powered by two independent nodes.
• 31 masts (over 80 transmitting stations) were constructed, providing internet access for OB and social internet.
• 1,285 people gained internet access as OB.
• 3,027 people used the infrastructure supported by the project.
• 19 public sector entities used the developed ICT applications and services. Among other things, all educational institutions in the four consortium municipalities received a 1Gb/s fiber optic connection.
• 1,562 people were trained in computer skills and basic internet use.
• As a result of the decision of the Office of Electronic Communications, 512 kb/s bandwidth (so-called Social Internet) was released in the municipalities implementing the Project.

It is worth noting that when the pandemic broke out, all interested students and teachers immediately received free internet access, thus seamlessly commencing remote learning. For the implementation of this project, the Moszczenica Commune received the title of "Most Innovative Commune in Poland."

PI2. "Improving the investment attractiveness of the Łódź Voivodeship through comprehensive development of the Moszczenica Investment Areas (MTI)" (PLN 8 million), co-financed by the European Union under the European Regional Development Fund (Priority Axis II: Innovative and Competitive Economy, Measure: II.1: Business Environment: II.1.1: Investment Areas) of the Regional Operational Program of the Łódź Voivodeship for 2014-2020. Project coordinator on the Applicant's side, co-author of the project documentation. As part of the project, a 3.5-hectare area was comprehensively developed, including the construction of a water supply network, sanitary and storm sewer systems, a 15kV medium voltage power grid and a transformer station, street lighting, internal communication infrastructure, and a fiber-optic network. The main goal of the project was to comprehensively prepare investment areas tailored to the needs of SMEs interested in investing in the Moszczenica Municipality. The specific goals of the project are:
• preparing investment areas tailored to the needs of SMEs for conducting business activities,
• comprehensively equipping the investment area with technical infrastructure, • creating better conditions for SME development.

A modern fiber-optic network with three independent, remote points of connection to the Pionier academic network and a dedicated power connection powered from two different sides of Poland contributed to the construction of a data processing center, which currently houses the Local Competence Center (LCK) in the Moszczenice Investment Areas. Established by an agreement between the Łódź Voivode and a consortium of seven local

governments from three voivodeships (Łódź, Wielkopolska, and Silesia), LCK implements tasks related to the digitization of central and local government administration. Currently, LCK, of which I am the coordinator, provides cloud services, including computing resources and proprietary AI solutions, to over 100 local governments and combined and central government administration units. At LCK, my team and I have built a number of solutions for this administration: - reporting systems for Crisis Management Centers, - systems for the rapid collection and aggregation of data from local government units (LGUs) for the needs of provincial institutions, - AI-based solutions for LGUs and central and local government administration, - solutions providing cloud-based access to the EZD PUW system.

1. Name and surname:
Dr. Krzysztof Rojek, DSc, Eng., Professor at PCz

2. Academic degrees and titles (scientific discipline, year of award):
PhD in Technical Sciences, Technical Information Technology and Telecommunications, 2012
Habilitation in Technical Information Technology and Telecommunications, 2019

3. Main areas of research interest:

Research are focuses on accelerating CFD (Computational Fluid Dynamics) simulations using modern computational techniques, with particular emphasis on the integration of artificial intelligence and machine learning with classical numerical methods. For many years, I have been developing AI-accelerated CFD solutions, including seq2seq models and mixed precision computations, which enable significant reductions in simulation time while maintaining acceptable accuracy. This work encompasses implementations on both CPU/GPU platforms (Intel, NVIDIA) and specialized AI accelerators (Graphcore IPU), as well as previous research on the use of FPGAs to accelerate fluidic computations. A second key area is the performance, scalability, and optimization of HPC applications on heterogeneous computing architectures. I analyze and develop techniques such as MPI process malleability, distributed learning of data-driven CFD models, and automatic adaptation of numerical algorithms (including MPDATA) for hybrid systems. This research encompasses both classic parallel techniques (OpenFOAM, MPI, OpenMP, CUDA) and modern approaches that consider dynamic workloads, resource management in HPC clusters, and performance comparisons across platforms (CPU, GPU, IPU, FPGA). The results of these studies are regularly published in leading journals and conferences in the field of high-performance computing and computational science (Future Generation Computer Systems, IJHPCA, ICCS, Euro-Par).

4. Key scientific publications (max. 10 items, since 2015):
1. Iserte, S., Martín-Álvarez, I., Rojek, K., Aliaga, J., Castillo, M., Folwarska, W., Peña, A. (2026). Resource optimization with MPI process malleability for dynamic workloads in HPC clusters. Future Generation Computer Systems, 174, https://doi.org/10.1016/j.future.2025.107949
2. Halbiniak, K., Rojek, K., Iserte, S., & Wyrzykowski, R. (2024). Unleashing the Potential of Mixed Precision in AI-Accelerated CFD Simulation on Intel CPU/GPU Architectures. In L. Franco, C. De Mulatier, M. Paszyński, V. V. Krzhizhanovskaya, J. Dongarra, & P. M. A. Sloot (Eds.), Computational Science – ICCS 2024. Part 6 (pp. 203–217). Cham: Springer. https://doi.org/10.1007/978-3-031-63778-0_15
3. Iserte, S., Gonzalez-Barbera, A., Barreda, P., & Rojek, K. (2023). A Study on the Performance of Distributed Training of Data-Driven CFD Simulations. International Journal of High Performance Computing Applications, 37(5), 503–515. https://doi.org/10.1177/10943420231160557
4. Rościszewski, P., Krzywaniak, A., Iserte, S., Rojek, K., & Gepner, P. (2023). Optimizing Throughput of Seq2Seq Model Training on the IPU Platform for AI-Accelerated CFD Simulations. Future Generation Computer Systems, 147, 149–162. https://doi.org/10.1016/j.future.2023.05.004
5. Rojek, K., Wyrzykowski, R., & Gepner, P. (2023). Chemical Mixing Simulations with Integrated AI Accelerator. In J. Mikyska, C. De Mulatier, M. Paszyński, V. V. Krzhizhanovskaya, J. Dongarra, & P. M. A. Sloot (Eds.), Computational Science – ICCS 2023. Part II (Vol. 14074, pp. 494–508). Cham: Springer. https://doi.org/10.1007/978-3-031-36021-3_50

6. Rojek, K., & Wyrzykowski, R. (2023). Performance and Scalability Analysis of AI-Accelerated CFD Simulations Across Various Computing Platforms. In J. Singer, Y. Elkhatib, D. Blanco Heras, P. Diehl, N. Brown, & A. Ilic (Eds.), Euro-Par 2022: Parallel Processing Workshops (pp. 223–234). Cham: Springer. https://doi.org/10.1007/978-3-031-31209-0_17
7. Rojek, K., Wyrzykowski, R., & Gepner, P. (2021). AI-Accelerated CFD Simulation Based on OpenFOAM and CPU/GPU Computing. In M. Paszyński, D. Kranzlmüller, V. V. Krzhizhanovskaya, J. Dongarra, & P. M. A. Sloot (Eds.), Computational Science – ICCS 2021. Part II (Vol. 12743, pp. 373–385). Cham: Springer. https://doi.org/10.1007/978-3-030-77964-1_29
8. Rojek, K., Rojek, M., & Paropkari, V. R. (2019). CFD Acceleration with FPGA. In Proceedings of the International Conference for High Performance Computing, Networking, Storage, and Analysis (SC19), Denver, United States, November 17–22, 2019 (6 pages).
9. Rojek, K., & Wyrzykowski, R. (2015). Parallelization of 3D MPDATA Algorithm Using Many Graphics Processors. In V. Malyshkin (Ed.), Parallel Computing Technologies (PaCT 2015) (Vol. 9251, pp. 445–457). Cham: Springer. https://doi.org/10.1007/978-3-319-21909-7_43
10. Rojek, K., Szustak, Ł., & Wyrzykowski, R. (2015). Parallelization and Automatic Adaptation of Numerical Algorithms to Hybrid Architectures with GPU Accelerators. Warsaw: PWN Scientific Publishing House. ISBN: 978-83-01-18119-2

5. Participation in research projects, including project management funded by grants (since 2015):
1. Modeling and Controlling the Correlation Phenomenon of Algorithm Performance and Energy Consumption in Parallel Computing Environments - Project funded by the National Science Centre, No. 2015/17/D/ST6/04059, as part of the SONATA 9 call, implemented from January 21, 2016 to June 20, 2019.
2. KMD4EOSC - Universal Infrastructure for Data Storage and Sharing, and Efficient Processing of Large Volumes of Data in HPC, BigData, and Artificial Intelligence Models, Financing Institution: European Union under Measure 2.4 of the European Funds for Modern Economy program No. FENG.02.04-IP.04-0015/24, project start: 2025–2027
3. Project no. POIR.04.02.00-00-D010/20 "National Data Warehouse. Universal infrastructure for data storage and sharing, and efficient processing of large volumes of data in HPC, BigData, and artificial intelligence models," co-financed by the European Regional Development Fund under Measure 4.2 of the Smart Growth Operational Programme 2014-2020

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense)
1. Supervision of the M.Sc. Eng. Weronika Folwarska, Technical Computer Science and Telecommunications, Development of Artificial Intelligence Methods to Increase the Efficiency of Physical Simulations in HPC Environments, second year of doctoral studies
2. Supervision of Emil Barciś, M.A., Technical Computer Science and Telecommunications, Accelerating Numerical Simulations Using Neural Networks, third year of doctoral studies

7. International Activities (since 2015):
• Member of the Program Committee of the International Conference on Parallel Processing & Applied Mathematics (PPAM) 2015–present PPAM is one of the leading international conferences dedicated to parallel processing, high-performance computing (HPC), and the applications of computational mathematics in science and engineering.

• Member of the Program Committee of the Conference on Computer Science and Intelligence Systems (FedCSIS) from 2021–present ◦ FedCSIS is an international scientific conference covering a wide range of topics in computer science, with a particular emphasis on artificial intelligence, intelligent systems, data processing, and modern IT technologies.
• Member of the Program Committee of HPCMALL 2026: 3rd International Workshop on Malleability Techniques and Applications in High-Performance Computing ◦ HPCMALL is a specialized workshop dedicated to malleability techniques (dynamic changes in computing resources during application execution) and their applications in HPC systems.
• Organizer of the Workshop on Applications of ML and AI in HPC (WAML-HPC24), 2024 ◦ WAML-HPC is a scientific workshop focusing on the use of machine learning and artificial intelligence methods in high-performance computing and the modeling and analysis of large scientific data.

8. Other: -

1. Name and surname:
Rafał Scherer

1997 – Master of Science in Electrical Engineering, specializing in electronics and computer engineering. A single-cycle master's degree program at the Faculty of Electrical Engineering, Częstochowa University of Technology. The basis for this was a thesis entitled "Accelerator System for Researching Neural Networks with Software." The thesis consisted of a designed and physically constructed PC card equipped with a signal processor and its supporting software.

2002 – Doctor of Technical Sciences in Computer Science. The Faculty of Mechanical Engineering and Computer Science Council, Częstochowa University of Technology. The basis for this thesis was a submitted doctoral dissertation entitled "Methods of Classification Using Neuro-Fuzzy Systems." 2012 – Habilitation in Technical Sciences in Computer Science. The Faculty of Mechanical Engineering and Computer Science Council, Częstochowa University of Technology. 2021 – Title of Professor of Engineering and Technical Sciences awarded on January 4, 2021, by the President of the Republic of Poland.

3. Main areas of scientific interests:
Prof. Dr. Hab. Eng. Rafał Scherer works in the Department of Artificial Intelligence at the Faculty of Computer Science and Artificial Intelligence of the Częstochowa University of Technology. He is the author of approximately 200 publications in the field of artificial intelligence, including two monographs published by Springer. He has participated in numerous international scientific and research-and-development projects. He is also the main organizer of the cyclical international conference "Artificial Intelligence and Soft Computing." His research interests include machine learning in its broadest sense.

4. Main scientific publications (max. 10 publications, since 2015):
Iacobelli, Emanuele, Rafał Grycuk, Giorgio De Magistris, Rafał Scherer, and Christian Napoli. "Predicting Solar Wind Density from Sun Images by Means of a GNN-LSTM Based Encoder-Decoder Deep Network." In ECAI 2025, 28th European Conference on Artificial Intelligence, Main Track, pp. 2179-2186. iOS Press, 2025.
Jakub Nowak, Marcin Korytkowski, Slava Voloshynovskiy and Rafał Scherer, "Learning Text Document Representations by One-Class Glial Neural Networks," 2025 International Joint Conference on Neural Networks (IJCNN), Rome, Italy, 2025, pp. 1-8, doi: 10.1109/IJCNN64981.2025.11228778.
Łukasz Mikołajczyk, Piotr Duda, Robert Nowicki, and Rafal Scherer. "Improved DeepFool: Efficient Adversarial Attacks via Optimization and Refinement." (ISD2025 Proceedings). Belgrade, Serbia (2025).
Wei, Wei, Xiaowan Li, Beibei Zhang, Linfeng Li, Robertas Damaševičius, and Rafal Scherer. "LSTM-SN: complex text classifying with LSTM fusion social network." The Journal of Supercomputing 79, no. 9 (2023): 9558-9583.
Jakub Walczak, Patryk Najgebauer, Adam Wojciechowski, and Rafal Scherer. Ultrasmall fully-convolution GVA-NET for point cloud processing. Applied Soft Computing, 132:109837, 2023. (200 points) Kordos, Mirosław, Marcin Blachnik, and Rafał Scherer. "Fuzzy clustering decomposition of genetic algorithm-based instance selection for regression problems." Information Sciences 587 (2022): 23-40.
Wei, Wei, Qiao Ke, Jakub Nowak, Marcin Korytkowski, Rafał Scherer, and Marcin Woźniak. "Accurate and fast URL phishing detector: a convolutional neural network approach." Computer Networks 178 (2020): 107275.

Najgebauer, Patryk, and Rafał Scherer. "Inertia-based Fast Vectorization of Line Drawings." In Computer Graphics Forum, vol. 38, no. 7, pp. 203-213. 2019.
Korytkowski, Marcin, Pawel Staszewski, Piotr Woldan, and Rafal Scherer. "Fast computing framework for convolutional neural networks." In 2016 IEEE International Conferences on Big Data and Cloud Computing (BDCloud), Social Computing and Networking (SocialCom), Sustainable Computing and Communications (SustainCom)(BDCloud-SocialCom-SustainCom), pp. 118-123. IEEE, 2016.
Korytkowski, Marcin, Leszek Rutkowski, and Rafal Scherer. "Fast image classification by boosting fuzzy classifiers." Information Sciences 327 (2016): 175-182.

5. Participation in scientific projects, including project management funded by grants (since 2015):

Legimi Spółka Akcyjna, National Centre for Research and Development (NCBR), Development of user behavioral analysis models using artificial intelligence algorithms to predict consumer behavior, product recommendations, and automate marketing and sales processes in the book industry, R&D Manager, 2021-2023

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
1. Algorithms for processing and comparing digital X-ray images, Jakub Romanowski (author of the dissertation), Doctoral dissertation, May 25, 2023, Częstochowa University of Technology
2. Algorithms for identifying imaging sensors, Jarosław Bernacki (author of the dissertation), Doctoral dissertation, September 2023, Częstochowa University of Technology

7. International activity (since 2015):
Collaboration with Professor Wei Wei from Xi'an University of Technology resulted in new methods of text analysis and classification, particularly in the context of fiscal applications and social media.
Research on human pose estimation from video and images was conducted primarily with Le Van Hung from Vietnam.
Research related to methods of ensuring cybersecurity, i.e., securing IT systems and data against all threats related to cybercrime, hacker attacks, and other online security incidents, was conducted with the team of Professor Kelton A. Pontara Da Costa from São Paulo State University.
Significant work was conducted with the Lodz University of Technology, the University of Bielsko-Biała, Sapienza University of Rome, and the University of Geneva.
An internship at the University of Alberta in Canada under the supervision of Professor Witold Pedrycz from July 22, 2023 to August 24, 2023.
Research stay at Imperial College London with Prof. Krystian Mikołajczyk from July 1, 2023 to July 11, 2023.
8. Other:

https://www.researchgate.net/profile/Rafal-Scherer?ev=hdr_xprf
https://scholar.google.com/citations?user=XnE-yNMAAAAJ
ORCID: 0000-0001-9592-262X 2025

- Award of the Minister of Science and Higher Education for significant achievements in scientific activity, awarded the Silver Cross of Merit by the President of the Republic of

Poland, Member of the Committee on Computer Science of the Polish Academy of Sciences,
Chairman of the Coordinating Council of the Polish Agreement for the Development of Artificial Intelligence, PP-RAI, https://pssi.org.pl/pp-rai#rada_koordynujaca,
Member of the Polish Neural Network Society,
Member of the Institute of Electrical and Electronics Engineers,
senior member Member of the IEEE Computational Intelligence Society, Poland Chapter, vice chair Member of the Association for Computing Machinery (ACM),
senior member

1. Name and surname:
Marcin Zalasiński (PhD, Eng., prof., PCz)

2. Academic degrees and titles (discipline, year of award):
PhD, field of technical sciences, scientific discipline: computer science, year of award: 2014, title of doctoral dissertation: Identity verification algorithms based on dynamic features of handwritten signatures using selected computational intelligence methods. Habilitation, field of engineering and technical sciences, scientific discipline: technical computer science and telecommunications, year of award: 2019.

3. Main areas of research interests: Artificial intelligence, biometrics. 4. Most important scientific publications (max. 10 items, since 2015):
1. Cpałka, K., Zalasiński, M., & Rutkowski, L. (2016). A new algorithm for identity verification based on the analysis of a handwritten dynamic signature. Applied Soft Computing, 43, 47-56. https://doi.org/10.1016/j.asoc.2016.02.010 (200 points)
2. Zalasiński, M., & Cpałka, K. (2018). A new method for signature verification based on the selection of the most important partitions of the dynamic signature. Neurocomputing, 289, 13-22. https://doi.org/10.1016/j.neucom.2018.02.017 (140 points)
3. Zalasiński, M., Łapa, K., & Cpałka, K. (2018). Prediction of values of the dynamic signature features. Expert Systems with Applications, 104, 86-96. https://doi.org/10.1016/j.eswa.2018.03.028 (200 points according to the Ministry of Science and Higher Education list)
4. Łapa, K., Cpałka, K., & Zalasiński, M. (2019). Algorithm based on population with a flexible search mechanism. IEEE Access, 7, 132253-132270. https://doi.org/10.1109/ACCESS.2019.2941182 (100 points according to the Ministry of Science and Higher Education list)
5. Zalasiński, M., Łapa, K., & Laskowska, M. (2020). Intelligent prediction of changes in biometric features using fuzzy systems and population-based algorithms. IEEE Transactions on Fuzzy Systems, 28(6), 1073-1083. https://doi.org/10.1109/TFUZZ.2019.2955043 (200 points according to the Ministry of Science and Higher Education list)
6. Zalasiński, M., Cpałka, K., & Łapa, K. (2020). Fuzzy system in the on-line signature scalable verification. In 2020 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) IEEE. https://doi.org/10.1109/FUZZ48607.2020.9177586 (70 points according to the list of the Ministry of Science and Higher Education)
7. Zalasiński, M., Cpałka, K., & Niksa-Rynkiewicz, T. (2020). A method for generating reference signatures in a scalable on-line signature verification system. In L. Kong, Q. Tian, & A. C. Kot (Eds.), Neural Information Processing. ICONIP 2020. Lecture Notes in Computer Science (Vol. 12532, pp. 569-579). Springer. https://doi.org/10.1007/978-3-030-63823-8_48 (70 points according to the Ministry of Science and Higher Education list)
8. Zalasiński, M., Laskowski, Ł., Niksa-Rynkiewicz, T., Cpałka, K., Byrski, A., Przybyszewski, K., Trippner, P., & Dong, S. (2022). Evolutionary algorithm for selecting dynamic signatures partitioning approach. Journal of Artificial Intelligence and Soft Computing Research, 12(4), 267-279. https://doi.org/10.2478/jaiscr-2022-0018 (140 points according to the Ministry of Science and Higher Education list)
9. Zalasiński, M., Cader, A., Patora-Wysocka, Z., & Xiao, M. (2024). Evaluating neural network models for predicting dynamic signature signals. Journal of Artificial Intelligence and Soft Computing Research, 14(4), 361-372. https://doi.org/10.2478/jaiscr-2024-0019 (140 points according to the list of the Ministry of Science and Higher Education)
10. Zalasinski, M., Szczepanik, T., & Dobosz, P. (2025). A machine learning system for energy forecasting with feature importance analysis. In M. Paszynski, A. S. Barnard, & Y. J. Zhang (Eds.), Computational science - ICCS 2025 workshops. Lecture Notes in

Computer Science (Vol. 15910, pp. 27–42). Springer. https://doi.org/10.1007/978-3-031-97567-7_3 (140 points according to the Ministry of Science and Higher Education list)

5. Participation in research projects, including project management funded by grants (since 2015):
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6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense):
M.Sc. Tomasz Szczepanik, Technical Computer Science and Telecommunications, PhD student (in progress)

7. International Activities (since 2015):
Collaboration on scientific articles with the following institutions:
Meiji University, Department of Computer Science, Japan,
Nanyang Technological University, School of Electrical & Electronic Engineering, Singapore,
Blekinge Institute of Technology, Karlskrona, Sweden,
Clark University, Worcester, MA 01610, USA,
School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, USA,
College of Automation & College of Artificial Intelligence, Nanjing University of Posts and Telecommunications, China,
Department of Electrical and Computer Engineering, Missouri University of Science and Technology, USA,
Zhoukou Normal University, School of Computer Science and Technology, China.

Other: ---

Profiles of academic teachers teaching at the doctoral school, representing the scientific discipline of Environmental, Mining, and Energy Engineering

1. Name:
Tomasz Czakiert

2. Academic degrees and titles (academic discipline, year of award):
• Professor (field: Engineering and Technical Sciences, 2020)
• Ph.D. Eng. (field: Technical Sciences, discipline: Machine Design and Operation, 2014)
• Ph.D. Eng. (field: Technical Sciences, discipline: Environmental Engineering, 2004)

3. Main areas of research interest:
Issues related to oxy-fuel combustion and chemical looping combustion, as well as fluidized bed technology, particularly circulating fluidized bed technology, i.e., solid fuel combustion processes, thermal-flow processes, and processes for reducing pollutant emissions.

4. Most important scientific publications (max. 10 items, from 2015):
• Adamczyk W.P., Kozolub P., Kruczek G., Pilorz M., Klimanek A., Czakiert T., Wecel G., Numerical Approach for Modeling Particle Transport Phenomena in a Closed Loop of a Circulating Fluidized Bed, Particuology, 2016, Vol. 29, pp. 69-79.
• Czakiert T., Status of Development of Oxygen Combustion Technology, Rynek Energii, 2017, No. 6, pp. 60-64.
• Krzywanski J., Czakiert T., Shimizu T., Majchrzak-Kuceba I., Shimazaki Y., Zylka A., Grabowska K., Sosnowski M., NOX Emissions from Regenerator of Calcium Looping Process, Energy & Fuels, 2018, Vol. 32, pp. 6355-6362.
• Czakiert T., Combustion of Solid Fuels in Chemical Looping Systems, Monograph, No. 351, Częstochowa University of Technology Publishing House, Częstochowa, 2019.
• Thorne R.J., Bouman E.A., Sundseth K., Aranda A., Czakiert T., Pacyna J.M., Pacyna E.G., Krauz M., Celinska A., Environmental Impacts of a Chemical Looping Combustion Power Plant, International Journal of Greenhouse Gas Control, 2019, Vol. 86, pp. 101-111.
• Idziak K., Czakiert T., Krzywanski J., Zylka A., Nowak W., Studies on Solids Flow in a Cold Model of Dual Fluidized Bed Reactor for Chemical Looping Combustion of Solid Fuels, Journal of Energy Resources Technology, 2020, Vol. 142, No. 022102, pp. 1-6.
• Idziak K., Czakiert T., Krzywanski J., Zylka A., Kozlowska M., Nowak W., Safety and Environmental Reasons for the Use of Ni-, Co-, Cu-, Mn- and Fe-based Oxygen Carriers in CLC/CLOU Applications: An Overview, Fuel, 2020, Vol. 268, No. 117245, pp. 1-8.
• Czakiert T., Krzywanski J., Zylka A., Nowak W., Chemical Looping Combustion: A Brief Overview, Energies, 2022, Vol. 15, 1563.
• Krzywanski J., Czakiert T., Nowak, W., Shimizu T., Zylka A., Idziak K., Sosnowski M., Grabowska K., Gaseous Emissions from Advanced CLC and Oxyfuel Fluidized Bed Combustion of Coal and Biomass in a Complex Geometry Facility: A Comprehensive Model, Energy, 2022, Vol. 251, 123896.
• Krzywanski J., Czakiert T., Nowak W., Shimizu T., Ashraf W.M., Zylka A., Grabowska K., Sosnowski M., Skrobek D., Sztekler K., Kijo-Kleczkowska A., Iliev I., Towards Cleaner Energy: An Innovative Model to Minimize NOX Emissions in Chemical Looping and CO2 Carrier Technologies, Energy, 2024, Vol. 312, 133397.

5. Participation in research projects, including project management funded by grants (since 2015):
• Research project leader at the Częstochowa University of Technology: Innovative idea for combustion of solid fuels via chemical looping technology, Polish-Norwegian Research Programme, 2014-2017.

• Research project leader at the Polish side: Multi-scale investigation of chemical looping combustion of biomass pellets towards negative CO2 emissions, Polish-Chinese/Chinese-Polish Joint Research Programme, 2024-2027.

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense) • Supervisor of the doctoral dissertation of Sylwia Jankowska, M.Sc., Eng., in the discipline of Energy, "Nitrogen compounds in the fluidized bed oxy-combustion process of coal," 2017 (with distinction).
• Supervisor of the doctoral dissertation of Kamil Idziak, M.Sc., Eng., in the discipline of Environmental Engineering, Mining, and Energy, "The influence of oxygen carrier properties on the fluidized bed combustion process of solid fuels in a chemical loop," 2021 (with distinction).

7. International activity (since 2015):
• Research internship at Niigata University, Department of Chemistry and Chemical Engineering, Niigata, Japan, October 9/10, 2016.
• Participation in international research consortia: with NILU - Stiftelsen Norsk Institutt for Luftforsknin and IFE - Institutt for Energiteknikk (in the Norwegian project, as above in point 5); with HUST - Huazhong University of Science & Technology and SEU - Southeast University (in the Chinese project, as above in point 5).

8. Other:
• Patent No. 231254, System for capturing carbon dioxide (CO2) from exhaust gases from the oxy-fuel combustion of solid fuels in fluidized bed boilers with a circulating layer, 2019.
• Patent No. 232612, Combustion chamber of a fluidized bed duo-reactor with CLOU-type oxygen carriers for combustion of solid fuels, 2019.
• Patent No. 234783, Chemical loop reactor for combustion of solid fuels, 2020.
• Patent No. 243901, Combustion chamber of a fluidized bed duo-reactor for chemical loop combustion, 2023.
• 2011–present: Member of the Energy Commission of the Katowice Branch of the Polish Academy of Sciences.
• 2016–present: Member of the Polish Combustion Institute.

1. Name and surname:
Anna Grobelak

2. Academic degrees and titles (scientific discipline, year of award):
Dr. Hab. Habilitation in Technical Sciences (discipline: environmental engineering, mining, and energy, 2020).

3. Main areas of scientific interest:
Green biotechnology: bioremediation; biodegradation; removal of micropollutants from the environment.

4. Most important scientific publications (max. 10 items, since 2015):
1. Całus-Makowska, K., Binkowski, Ł. J., & Grobelak, A. (2025). Pharmaceutical residues in wastewater treatment plants in Poland: Removal efficiency and risk assessment. Journal of Environmental Management, 394, 127480.
2. Wypart-Pawul, A., Karwowska, B., Caban, R., & Grobelak, A. (2025). Cold Plasma-Induced Changes in Polyethylene Particles and Their Binding Affinity to Selected Pharmaceuticals. Molecules. 30(18), 3756.
3. Bień, B., Grobelak, A., Bień, J., Sławczyk, D., Kozłowski, K., Wysokowska, K., & Rak, M. (2025). Dry Anaerobic Digestion of Selectively Collected Biowaste: Technological Advances, Process Optimization and Energy Recovery Perspectives. Energies, 18(17), 4475.
4. Grobelak, A., Bień, B., Sławczyk, D., & Bień, J. (2025). Conditioning Biomass for Biogas Plants: Innovative Pre-Treatment and Digestate Valorization Techniques to Enhance Soil Health and Fertility. Sustainability, 17(8), 3289. 100 pts
5. Klimasz, M., & Grobelak, A. (2025). Effects of Microplastics on Selected Earthworm Species. Toxics, 13(3), 201. 70 pts
6. Klimasz, M., Kacprzak, A., & Grobelak, A. (2025). An Evaluation of the Quantitative Concentration of Microplastic in Dendrobaena veneta and Lumbricus terrestris Tissues from Laboratory and Environmental Cultures.Applied Sciences (2076-3417), 15(4). 100 points
7. Całus-Makowska, K., Dziubińska, J., Grosser, A., & Grobelak, A. (2025). Application of the Fenton and photo-Fenton processes in pharmaceutical removal: New perspectives in environmental protection. Desalination and Water Treatment, 100 pt. 321, 100949.
8. Klimasz, M., & Grobelak, A. (2024). Accumulation of Spherical Microplastics in Earthworms Tissues-Mapping Using Raman Microscopy. Applied Sciences, 14(22), 10117.
9. Całus-Makowska, K., Grosser, A., Grobelak, A., Białek, H., & Siedlecka, E. (2024). Kinetic study of the simultaneous removal of ibuprofen, carbamazepine, sulfamethoxazole, and diclofenac from water using biochar and activated carbon adsorption, and TiO2 photocatalysis. Desalination and Water Treatment, 100817.
10. Grobelak, A., Całus-Makowska, K., Jasińska, A., Klimasz, M., Wypart-Pawul, A., Augustajtys, D., .. & Kowalska, A. (2024). Environmental Impacts and Contaminants Management in Sewage Sludge-to-Energy and Fertilizer Technologies: Current Trends and Future Directions. Energies, 17(19), 4983.

5. Participation in scientific projects, including project management funded by grants (since 2015):
1. Project Manager; Implementation Ph.D., 2024-2028, Collaboration with Częstochowa Waterworks, Microbiological Risk Assessment and Legionnaires' Disease in Drinking Water Distribution Systems from Source to Tap: Screening and Development of Preventive Measures in Accordance with the New EU Directive
2. Project Supervisor: "Assessment of the Impact of Cold Plasma (CP) on the Efficiency of Removal of Selected Organic Micropollutants from Wastewater" – under the PRELUDIUM 22 program, UMO-2023/49/N/ST8/02022; 2024-2027, National Science Centre, amount PLN 209 PLN 718.00

3. Project Manager of the GeneInUse Student Science Club at the Faculty of Infrastructure and Environment of the Częstochowa University of Technology, Financing Institution: Ministry of Education and Science, as part of the fourth edition of the "Student Science Clubs Create Innovations" competition, 2024, Contract No. SKN/SP/603087/2024, Project Title: Application of Cold Plasma in Water and Wastewater Treatment, Funding Amount: PLN 70,000, Duration: 2024-2025
4. Project Manager of the GeneInUse Student Science Club at the Faculty of Infrastructure and Environment of the Częstochowa University of Technology, Financing Institution: Ministry of Education and Science, as part of the fourth edition of the "Student Science Clubs Create Innovations" competition, Project No. SKN/SP/496788/2021, Amount: PLN 60,000 2021-2022; project manager
5. BZ-401-01/23/R, Implementation of innovations in the scope of energy and fertilizer processing of sewage sludge and biodegradable waste, reducing the negative impact on the environment in a coastal tourist region, Client: Spółka Wodna “Łeba”, ul. Wspólna 1, 84-360, Łeba “Implementation of innovations in the scope of energy and fertilizer processing of sewage sludge and biodegradable waste, reducing the negative impact on the environment in a coastal tourist region” (project no. NORW.19.01.01-22-0003/20), co-financed by the Norwegian Financial Mechanism operational programme NORW.00.00.00 priority axis 19 Norwegian Financial Mechanism 2014-2021 measure 19.1. New Products and Investments sub-measure 19.1.1. Environmentally Friendly Technologies – Green Growth under the "Entrepreneurship Development and Innovation" program of the Norwegian Financial Mechanism 2014-2021; Agreement with the Częstochowa University of Technology: 9/PARP dated January 5, 2023-2024; project contractor, task leader
6. Measure 2.3 "Pro-innovative services for enterprises," Sub-measure 2.3.2 "Innovation vouchers for SMEs," under Priority Axis II: "Supporting the environment and potential of enterprises to conduct R&D&I activities," of the Smart Growth Operational Programme 2014-2020, Measure 2.3 "Pro-innovative services for enterprises," Sub-measure 2.3.2 "Innovation vouchers for SMEs." Nano-Tech Polska Sp. z o. o., Research and development work aimed at providing R&D services related to the development of the composition of an improved mineral fertilizer product containing silver particles obtained using the aXonnite® technology; "; implementation 2022-23, net amount PLN 263,000.17, project manager
7. BZ-401-05-/2020, Research topic: Chemical analyses of plant material, 2020 for Kazimierz Wielki University; project manager 8. Increasing production efficiency and coping with climate change, while ensuring sustainability and resilience; SFS-30-2017 – Closing loops at farm and regional levels to mitigate GHG emissions and environmental contamination – focus on carbon, nitrogen, and phosphorus cycling in agro-ecosystems, 2018-2022, H2020-EU.3.2.1.1.; project contractor 9. International Academic Partnerships Program (NAWA), PPI/APM/2018/1/00029/U/001, Environmental safety of biowaste in a circular economy 2018-2020, international project, project manager, contractor, project application

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
- Supervised PhDs:
1. Dr. Wojciech Rybak, June 30, 2025, "Hybrid method for removing petroleum-derived pollutants from the soil-water environment using immobilized preparations," supervisor
2. Dr. Marek Klimasz, June 16, 2025, "Tissue analysis of selected earthworm species as a method for estimating microplastic concentration in soil," supervisor
3. Dr. Aneta Kowalska, Eng.; "Analysis of selected post-mining soil reclamation technologies in terms of carbon sequestration," September 18, 2023; supervisor
4. Dr. Eng. Marta Jaskulak, 2021; "Optimization of remediation processes using advanced toxicological methods" deals with phytoremediation of soils polluted with heavy metals"; (international doctoral dissertation) co-supervisor

- PhDs in progress Klaudia Całus-Makowska (supervisor), Aleksandra Wypart-Pawul (supervisor), Karolina Czerwińska (supervisor), Sylwia Bielas (supervisor)

7. International activity (since 2015):
Participation in organizing committees of international and national scientific conferences
1. Scientific Committee of the scientific conference entitled Innovations in Ecological Engineering, June 26-28, 2024, Polish Society of Ecological Engineering
2. SCIENTIFIC ADVISORY BOARD the 15th SDEWES Conference on Sustainable Development of Energy, Water and Environment Systems to be held September 1-5, 2020 in Cologne
3. SCIENTIFIC ADVISORY BOARD 1st AP SDEWES conference 6 – 9 April 2020, Gold coast https://www.goldcoast2020.sdewes.org/scientific-advisory-board
4. Organization of a special session SPECIAL SESSION: Environmental safety of bio-waste in the circular economy – potential for energy and matter recovery' SCIENTIFIC ADVISORY BOARD the 15th SDEWES Conference on Sustainable Development of Energy, Water and Environment Systems to be held September 1-5, 2020 in Cologne

Participation in editorial boards and scientific advisory boards of journals
2019-present – Associate Editor of the International Journal of Environmental Science and Technology (IJEST), Springer, 70 points
2021-2025 – Associate Editor of the journal Energies
2025 – Associate Editor of the journal Toxics
2018-2020 – Editor of the monograph Waterborne Pathogens: Detection and Treatment 6 ELS WBP; Editors: MNV Prasad, Anna Grobelak, published in 2019, Elsevier

8. Other:
Presentation of papers at international and national thematic conferences
1. 5th Edition of the International Conference OBSIDIAN - "Plant Productivity and Food Safety: Microbiology, Soil Science, Food Quality and Agricultural Genetics", June 23–24, 2025, at Nicolaus Copernicus University in Toruń. Grobelak, Anna, Anna Napora, and Wiktoria Noszczyk. Plant growth-promoting traits of rhizospheric, rhizoplane, and endophytic bacteria under environmental stress conditions. Poster presentation.
2. 20th Anniversary Scientific and Technical Conference in the series: PROBLEMS OF WATER AND WASTEWATER MANAGEMENT IN AGRICULTURAL-INDUSTRIAL REGIONS, Supraśl, June 4-6, 2025. Organizers: Białystok University of Technology, Faculty of Civil and Environmental Sciences, Department of Technology in Environmental Engineering, paper: "Application of cold plasma for the removal of selected pharmaceuticals from water and wastewater."
3. 3rd Edition of the Legal and Economic Forum "Green Development - Prospects for the Near Future," RIPH in Częstochowa, October 25, 2024.
4. 5th International Conference, Strategies toward Green Deal Implementation: Water, Raw Materials & Energy in Green Transition, November 27-29, 2024; poster; Sewage sludge processing into organic fertilizer as a key element of the Green Deal Strategy – innovative approaches in water and waste management - Anna Grobelak
5. Scientific Conference "Innovations in Ecological Engineering", June 26-28, 2024, Białystok, paper: "Microplastics in Sewage Sludge Processing" 6th Scientific Conference "SEWAGE SLUDGE MANAGEMENT METHODS 17TH CONFERENCE, Abrys, Toruń, SEPTEMBER 26-28, 2023", paper: "Scientific and Practical Aspects of Sewage Sludge Co-fermentation" - Anna Grobelak
7. MONGOS Kraków, June 30 – July 1, 2022, Unconventional waste water treatment plant - recovery possibilities in small and medium-sized facilities (paper)

1. Name and surname:
Anna Grosser

2. Academic degrees and titles (scientific discipline, year of award):
• Ph.D., Eng. in the field of engineering and technical sciences, in the discipline of environmental engineering, mining and energy – 2020.
• Ph.D., Eng. in the discipline of environmental engineering – 2013.
• M.Sc., Eng. – 2009.
3. Main areas of scientific interest:
• Biotechnological and process aspects of methane fermentation and co-fermentation of sewage sludge with other bio-wastes (including fatty waste, the organic fraction of municipal waste), with particular emphasis on the intensification and stability of biogas production and the assessment of the energy potential of these processes.
• Sewage sludge and biowaste management within the circular economy concept – modern processing and management technologies (composting, fermentation, co-fermentation, hydrothermal carbonization, biochar) and energy and material recovery, including the application of products (e.g., biochar) in the soil environment.
• Advanced wastewater and leachate treatment methods (biological and hybrid systems, including UASB–SBR systems, Fenton and photo-Fenton processes) and the occurrence, removal, and ecotoxicology of inorganic and organic micropollutants – particularly metal nanoparticles and pharmaceuticals – in water, wastewater, and soil environments.

4. Most important scientific publications (max. 10 items, since 2015):
1. Grosser, A., Neczaj, E., Singh, B. R., Almås, Å. R., Brattebø, H., & Kacprzak, M. (2017). Anaerobic digestion of sewage sludge with grease trap sludge and municipal solid waste as co-substrates. Environmental research, 155, 249-260.
2. Kossińska, N., Grosser, A., Kwapińska, M., Kwapiński, W., Ghazal, H., Jouhara, H., & Krzyżyńska, R. (2024). Co-hydrothermal carbonization as a potential method of utilizing digested sludge and screenings from wastewater treatment plants towards energy application. Energy, 299, 131456.
3. Kacprzak, M., Malińska, K., Grosser, A., Sobik-Szołtysek, J., Wystalska, K., Dróżdż, D., ... & Meers, E. (2023). Cycles of carbon, nitrogen and phosphorus in poultry manure management technologies–environmental aspects. Critical Reviews in Environmental Science and Technology, 53(8), 914-938.
4. Grobelak, A., Placek, A., Grosser, A., Singh, B. R., Almås, Å. R., Napora, A., & Kacprzak, M. (2017). Effects of single sewage sludge application on soil phytoremediation. Journal of Cleaner Production, 155, 189-197.
5. Grosser, A. (2018). Determination of methane potential of mixtures composed of sewage sludge, organic fraction of municipal waste and grease trap sludge using biochemical methane potential assays. A comparison of BMP tests and semi-continuous trial results. Energy, 143, 488-499.
6. Grosser, A. (2017). The influence of decreased hydraulic retention time on the performance and stability of co-digestion of sewage sludge with grease trap sludge and organic fraction of municipal waste. Journal of environmental management, 203, 1143-1157.
7. Jasińska, A., Grosser, A., & Meers, E. (2023). Possibilities and limitations of anaerobic co-digestion of animal manure—A critical review. Energies, 16(9), 3885.
8. Całus-Makowska, K., Dziubińska, J., Grosser, A., & Grobelak, A. (2025). Application of the Fenton and photo-Fenton processes in pharmaceutical removal: New perspectives in environmental protection. Desalination and Water Treatment, 321, 100949.
9. Courtois, P., de Vaufleury, A., Grosser, A., Lors, C., & Vandenbulcke, F. (2021). Transfer of sulfidized silver from silver nanoparticles, in sewage sludge, to plants and primary consumers in agricultural soil environment. Science of The Total Environment, 777, 145900.

10. Jasińska, A., Grosser, A., Meers, E., & Piłyp, D. (2024). Stimulating Methane Production from Poultry Manure Digest with Sewage Sludge and Organic Waste by Thermal Pretreatment and Adding Iron or Sodium Hydroxide. Energies, 17(11), 2679.

5. Participation in scientific projects, including project management financed by grants (since 2015):
1. Innovation in recycling technologies of sewage sludge and other biowaste – energy and matter recovery (BioTEnMaRe), 2013-2016, National Centre for Research and Development (NCRD) (POL-NOR/201734/76/2013), researcher.
2. Environmental safety of biowaste in a circular economy, 2018-2022, NAWA, researcher.
3. Terrestrial ecotoxicology of silver and silver nanoparticles (Terrestrial ecotoxicology of silver and silver nanoparticles), researcher.
4. Increasing production efficiency and coping with climate change, while ensuring sustainability and resilience; SFS-30-2017 – Closing loops at farm and regional levels to Mitigate GHG emissions and environmental contamination – focus on carbon, nitrogen, and phosphorus cycling in agro-ecosystems, 2018-2023, H2020-EU.3.2.1.1.; contractor.
5. Research and study of rhizosphere bacteria and plant endophytic bacteria supporting plant growth under stress conditions (studying the correlation between pollutants, microorganisms, and plants in the phytoremediation process) BG-4-401-401/2012/P, 2012-2015, National Science Center, principal investigator.
6. Exchange of intelligent solutions between the V4 and the EU in the field of energy and environment, International Visegrad Fund, 2020-2021, principal investigator.

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense)

Completed doctoral dissertations:
• Krzemińska D., Hybrid methods of pollutant oxidation in industrial wastewater, co-supervisor, 2019, discipline: environmental engineering, mining, and energy.

Supervisor: • Klaudia Całus-Makowska, "Removal of Selected Pharmaceuticals in Wastewater Treatment Using Integrated Biological and Physicochemical Methods," co-supervisor, Environmental Engineering, Mining, and Energy.
• Anna Jasińska, "Valorization of Poultry Manure Through Anaerobic Co-Digestion with Locally Available Organic Waste – An Integrated Approach for Bioenergy Production and Nutrient Recovery in a Circular Economy Framework," Environmental Engineering, Mining, and Energy.
• Anna Turlej, "Utilization of Products Resulting from the Hydrothermal Carbonization Process," Environmental Engineering, Mining, and Energy.
• German Smetana, "Treatment of Brewery and Dairy Wastewater in a Hybrid UASB–SBR System Integrated with Oxygen Photogranules by 2025," Environmental Engineering, Mining, and Energy.

7. International activities (since 2015):
Conference participation:
Grosser A., Neczaj E., 2015, Enhancement of Biogas Production from Sewage Sludge by Addition of Grease Trap Sludge, 10th Conference on Sustainable Development of Energy, Water and Environment Systems, September 27–October 2, 2015, Dubrovnik, Croatia (poster presentation).
Grosser A., 2016, Assessment of the impact of pre-treated feedstock on co-digestion of sewage sludge with different organic waste: a review, 11th Conference on Sustainable Development of Energy, Water and Environment Systems, September 4–9, 2016, Lisbon, Portugal (poster presentation).
Grosser A., 2016, The influence of decreased hydraulic retention time on the performance and stability of co-digestion of sewage sludge with grease trap sludge and OFMSW, 11th Conference on

Sustainable Development of Energy, Water and Environment Systems, Portugal, Lisbon 04-09/09/2016 (paper).
Grosser A., Neczaj E., Singh B. R., Almås Å. R., Brattebø H., Kacprzak M., 2016, Anaerobic digestion of sewage sludge with grease trap sludge and municipal solid waste as co-substrates, 5th International Conference on Advances in Sustainable Sewage Sludge Management (ASSM 2016), 18-21/09/2016 Kraków, Poland (poster presentation).
Grosser A., 2016, Optimization of the Co-Fermentation Mixture Composition Using Biochemical Methane Potential Assays, 5th International Conference on Advances in Sustainable Sewage Sludge Management (ASSM 2016), September 18-21, 2016, Krakow, Poland (poster presentation).
Grosser A., Neczaj E., Kacprzak M., Grobelak A., Fijałkowski K., 2016, Methane recovery from fat-rich materials: a review, The IWA World Water Congress & Exhibition 2016, October 9-14, 2016, Brisbane, Australia (poster presentation).
Grosser A., Neczaj E., Madela M., Celary P., 2018, Treatment of Landfill Leachate Using Ultrasound-Assisted SBR Reactor, 3rd EWaS International Conference on "Insights on the Water-Energy-Food Nexus," June 27-30, 2018, Lefkada, Greece (poster presentation).

Research internships:
2015 - Norwegian University of Life Sciences, participation in the Summer School
2019 - The Cape Town University, South Africa
2019 - VŠB - Technical University of Ostrava
2020 - Université de Lille, Lille, France

Study visits:
1. Study trip to South Africa - University of Pretoria and University of Cape Town (Cape Town) - February 9-3, 2019.
2. Study trip to the Czech Republic – visit to VSB - Technical University - visit to the central wastewater treatment plant in Ostrava, OZO Ostrava s.r.o., Czech Technical University in Prague, Institute of Chemical Process Fundamentals - April 11-17, 2019.
3. Study trip to Norway - Norwegian University of Life Sciences (NMBU) Ås, Lindum AS in Tønsberg - June 2-16, 2019.
4. Study trip to Spain - visit to the IRTA research institute in Barcelona; visit to the Institute's experimental fields (Centre Cabrils Fields) and the Faculty of Sciences of the University of Granada, visit to Bioazul in Malaga - January 12-24, 2020.
5. Study trip to Pau, France - University of Pau, technical visit to the APESA waste management plant (biogas plant/sewage treatment plant, R&D center) - July 18-30, 2019. 6. Technical visit to the municipal wastewater treatment plant in Dresden and an agricultural biogas plant (Germany) - July 17, 2019.
6. Technical visit to the municipal wastewater treatment plant in Dresden and an agricultural biogas plant (Germany) - July 17, 2019. 7
. Study trip to Iceland - University of Agriculture in Iceland, GAJA biogas and composting plant - July 26-August 7, 2021.
8. Study trip to Turkey - visit to Yidiz Technical University in Istanbul, Pamukkale University, and Nigde Omer Halisdemir University - September 19-28, 2021.
9. Study trip to Great Britain - visit to Lakeside Energy from Waste (EfW); meeting at Imperial College in London; visit to the wastewater treatment plant in Edinburgh - SEAFIELD WWTP; visit to the biogas plant in Midlothian near Edinburgh; visit to the University of Strathclyde in Glasgow at the Department of Chemistry and Process Engineering; Visit to the University of Manchester, Faculty of Chemistry; visit to the Davyhulme wastewater treatment plant - March 13-March 26, 2022.
10. Study trip to the USA - Center for Clean Water Technology at Stony Brook University; meeting with Jennifer McDonnell, Director, Solid Waste Management Planning, NYC Department of Sanitation, Bureau of Solid Waste Management; Visitor Center and Newtown Creek wastewater

treatment plant; University of Miami; Monarch Hill Renewable Energy Park; University of South Florida - May 6-May 22, 2022.

Organization:
1. SPECIAL SESSION: Environmental safety of bio-waste in the circular economy – potential for energy and matter recovery at the 14th SDEWES Conference on Sustainable Development of Energy, Water, and Environment Systems, October 1-6, 2019, Dubrovnik, Croatia, member of the organizing committee.
2. SPECIAL SESSION: Environmental safety of bio-waste in the circular economy – potential for energy and matter recovery" during the SDEWES2020 conference, which took place online from September 1-5, 2020.

8. Other:
• Supervisor of the 3-month internship of Ms. Birsel Sümeyye Özkan, March 3, 2025–June 20, 2025.
• Awards:
◦ Team Award of the Rector of the Częstochowa University of Technology for a series of publications – 3rd degree, 2017.
◦ Award for significant contribution to the review of A-list journals – Recognized reviewer, 2017, Journal of Cleaner Production.
◦ Award for significant contribution to the review of A-list journals – Recognized reviewer, 2017, Environmental Pollution.
◦ Award for significant contribution to the review of A-list journals A - Recognized reviewer, 2017, Chemical Engineering Journal.
◦ Award for significant contribution to reviewing A-list journals - Recognized reviewer, 2017, Journal of Environmental Management.
◦ Award for significant contribution to reviewing - Outstanding reviewer, 2017, Energy Conversion and Management.
◦ Award for significant contribution to reviewing - Outstanding reviewer, 2017, Applied Energy.
◦ Award for significant contribution to reviewing - Recognized reviewer, 2017, Applied Energy.
◦ Award for significant contribution to reviewing A-list journals - Recognized reviewer, 2016, Energy Conversion and Management.
◦ Award for significant contribution to reviewing - Outstanding reviewer, 2018, Environmental Pollution.
◦ Award for significant contribution to reviewing A-list journals - Outstanding reviewer. 2018, Journal of Environmental Management.
◦ Award for significant contribution to the review of A-list journals - Outstanding reviewer, 2018, Journal of Cleaner Production.
◦ Award for significant contribution to the review of A-list journals - Recognized reviewer, 2018, Energy Conversion and Management.
◦ Award for significant contribution to the review of A-list journals - Recognized reviewer, 2018, Energy.
◦ Award for significant contribution to the review of A-list journals - Outstanding reviewer, 2018, Energy. ◦ Award for significant contribution to the review of A-list journals - Recognized reviewer, 2018, Chemosphere.
◦ Award for significant contribution to the review of A-list journals - Recognized reviewer, 2019, Journal of Advanced Research.
◦ Team Award of the Rector of the Częstochowa University of Technology for a series of publications – Second Degree, 2018.
◦ Rector of the University of Technology Team Award, Second Degree, for activities related to the organization and active participation in the Science Picnic, Science Festival, and educational fair, November 2019;

◦ Rector of the University of Technology Team Award, Second Degree, for organizing a series of biology and chemistry workshops for upper secondary school students, for activities related to the organization and active participation in Industriada, June 9, 2018, and the Science Festival, May 26, 2018, November 2019;
◦ Rector of the University of Technology Team Award, Third Degree, for publication achievements, November 2019;
◦ Rector of the University of Technology Team Award, Third Degree, for preparing the NCBiR POWER project "EKOdetektywi na Jurajski szlaku - a program for the development of the technical university's educational offer in the scope of the implementation of the third mission," November 2019.
◦ Rector of the University of Technology Award 3rd degree team award for publication achievements, November 2020;
◦ Rector of Częstochowa University of Technology Award for Teamwork, 2nd Degree, for the implementation of an international research project co-financed by the European Commission's Horizon 2020 program, November 2020;
◦ Rector of Częstochowa University of Technology Award for documented organizational achievements, 2024.

• Workshop training required for the operation of research equipment, including training in the operation of the SPECTRO ARCOS II MV emission spectrometer (2021), training in the operation of the Milestone ETHOS UP microwave digester (2016), training in the operation of the TOC analyzer (2016), and LCA training entitled "LCA in Wastewater and Sludge Management" (2018), Data Mining in Statistica (2017), Training: Construction, Commissioning, Operation and Maintenance, Periodic Maintenance, Methodology Development and Analysis of Analytical Results for the Trace 1300 GC Gas Chromatograph with a Thermo Scientific TriPlus RSH Autosampler (2017), DGT Course as part of the Polish-Norwegian Research Collaboration (2014),
• Training and Course, among others Statistica Basic Course (2018), Statistica Data Visualization Methods Course (2018), Automatic Methane Production Recorder (AMPTS III) training (2025), Oxygen Reactor Operation Training, Financial Modeling for a Biogas Plant Investment Project Training organized by Ebinger Consulting (2024), Introduction to Simulink for Modeling, Simulation, and Testing, Mathworks (2024), Explore Your Research Field with Web of Science, Web Science Group (2020), Effective Scientific Publishing, Science Watch Poland Foundation (2023), Matlab EXPO (2024), Artificial Intelligence (AI) in Teaching (2024)

1. Name and Surname:
Beata Jabłońska

2. Academic Degrees and Titles (scientific discipline, year of award):
Dr. Hab. Eng., Prof. University (Environmental Engineering, Mining, and Energy, 2021)

3. Main areas of research interest:
Environmental engineering, waste management and recycling, resource recovery from waste, circular economy (CE), industrial waste processing technologies, mining and organic waste management

4. Most important scientific publications (max. 10 items, since 2015):
1. Jabłońska B., Poznańska G., Jabłoński P., Dziadas M., Thermochemical conversion of mixed plastics from car dismantling by pyrolysis and distillation and potential applications of the products, Waste Management 206 (2025) 115089, 1-13, doi.org/10.1016/j.wasman.2025.115089.
2. Jabłońska B., Poznańska G., Jabłoński P., Zwolińska J., Thermochemical Valorization of Plastic Waste Containing Low Density Polyethylene, Polyvinyl Chloride, and Polyvinyl Butyral into Thermal and Fuel Energy. Energies 2024, 17, 3458. https://doi.org/10.3390/en17143458.
3. Jabłońska B., Kiełbasa Paweł., Korenko Maroš, Dróżdż Tomasz., Physical and Chemical Properties of Waste from PET Bottles Washing as a Component of Solid Fuels. Energies 2019, 12, 2197; doi:10.3390/en12112197.
4. Poznańska G., Jabłońska B., "Possibilities of using char obtained from the pyrolysis of waste plastics," Monograph edited by Iwona Zawieja, "Innovative solutions in environmental engineering and energy - the perspective of sustainable development," Częstochowa University of Technology Publishing House, Częstochowa 2024, pp. 229-243, e-ISBN 978-83-65976-06-2 DOI: 10.17512/CUT/9788365976062
5. Jabłońska B., "Water consumption management in polyethylene terephthalate (PET) bottles washing process via wastewater pretreatment and reuse," Journal of Environmental Management, 224 (2018), pp. 215-224 10.1016/j.jenvman.2018.07.054.
6. Poznańska G., Jabłońska B., European trends in the recycling of plastic waste, Chapter in the monograph "Environmental engineering and biotechnology - challenges and new technologies", Monograph edited by: Rosińska A., Karwowska B., Madeła M., Publ. Częstochowa University of Technology, Częstochowa 2022, DOI: 10.17512/CUT/9788371939013 ISBN: 978-83-7193-900-6, 453-466
7. Jabłońska B., Jabłoński P., Gęga J., Kinetics and Thermodynamics of Pb(II), Zn(II), and Cd(II) Adsorption from Aqueous Solutions onto Activated Biochar Obtained from Tobacco, Waste, Materials 2025, 18, 2324. https://doi.org/10.3390/ma18102324.
8. Jabłońska B., Gliniak M., Optimization of methylene blue and povidone-iodine adsorption conditions on activated biochar from sunflower husk pyrolysis, Desalination and Water Treatment, 301 (2023) 228–241, doi: 10.5004/dwt.2023.29517.
9. Jabłońska B., Dróżdż T., Jabłoński P., Kiełbasa P., Removal of Pb(II), Cd(II) and Ni(II) Ions from Groundwater by Nonthermal Plasma, Materials 2022, 15, 5426., doi.org/10.3390/ma15155426.
10. Jabłońska B., Optimization of Ni(II), Pb(II), and Zn(II) Ion Adsorption Conditions on Pliocene Clays from Post-Mining Waste, Minerals 2021, 9, 704; doi: doi.org/10.3390/min11060568.

5. Participation in research projects, including project management funded by grants (since 2015):

Second government strategic program HYDROSTRATEG-II/0001/2023 "Innovations for water management and inland navigation," Government Strategic Program of the National Center for Research and Development, Project title: Rainwater storage and treatment system for photovoltaic farms, (2024-2027) - coordinator of tasks 1 and 3;

6th edition of the Minister of Education and Science's "Implementation Doctorate" program, DWD/6/0571/2022, Project title: "Development of an innovative method for chemical recycling of plastic waste through thermal degradation and catalytic hydrogenation" - project coordinator, doctoral thesis supervisor;
RPLD.01.02.02-10-0047/21, Project title: "Development of a textronic hygienic mat with an active microbiological reduction system and a heating function," Regional Operational Program of the Lodz Voivodeship (2022-2023) - project contractor for stages II and IV;
PARP Project No. POIR.02.03.02-10-0022/18, Development and implementation of an innovative spacer knit fabric with an integrated microbiological reduction system, for PPHU TRANS-TEX S.C. Krystyna Kasznicka, Krzysztof Kasznicki, Adam Kasznicki (2019-2020) - project contractor for tasks 2 and 3.

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense)
Gabriela Poznańska, M.Sc., Eng. Environmental engineering, mining, and energy, Development of an innovative method for chemical recycling of plastic waste through thermal degradation and catalytic hydrogenation, supervisory supervision 2022-2026.

7. International activity (since 2015): -

8. Other:
Patents:
1. Jabłońska B., Siedlecka E., Method for recovering silicon carbide from post-grinding wastewater. Patent PL 227000 B1 granted by the Polish Patent Office. Patent publication date: October 31, 2017, WUP06/17.
2. Jabłońska B., Siedlecka E. Method for manufacturing a mineral-glass filler. Patent PL 226185 B1 granted by the Polish Patent Office. Patent publication date: June 30, 2017, WUP06/17,
3. Jabłońska B., Siedlecka E., Kusiak M., Method for treating biodegradation-resistant industrial wastewater. Patent PL 234842 B1 granted by the Polish Patent Office. Patent publication date: April 30, 2020, WUP04/20.

Patent applications and utility models:
1. Jabłońska B., Siedlecki J., Siedlecka E., Błaszczyk T. Method for recovering useful parts from used lithium batteries. Patent application no. P-416902, PAT-24/19/04/16 of April 19, 2016.
2. Jabłońska B., Siedlecka E., Fluid distribution equipment, Office for Harmonization in the Internal Market, Trade Marks and Designs, Certificate of registration No. 002384651-0001, Registered January 15, 2014.

1. Name and surname:
Krystyna Malińska Krystyna Malińska
LinkedIn Krystyna Malińska (0000-0002-4590-5546)
ORCID

2. Academic degrees and titles (academic discipline, year of award):
• Ph.D., Eng. in environmental engineering, Częstochowa University of Technology, 2018
• Ph.D., Eng. in environmental engineering, Częstochowa University of Technology, 2007
• M.Sc., Eng. Food Technology, University of Agriculture in Krakow, 2002
• M.A. Business English, University of Silesia, 2007

3. Main areas of research interest:
I am interested in topics related to environmental engineering and protection, as well as sustainable agriculture. I analyze the impact of agricultural activities on the natural environment and develop solutions for reducing the negative impact of agriculture on the natural environment. I conduct research related to the development of fertilizer products from organic waste, optimization of the composting process, and the use of biochar in environmental protection. Together with my team, I am working on new products made of biodegradable and compostable plastics used in plant cultivation (such as soil mulching films and plant growing accessories) and effective methods for their end-of-life management.

4. Major scientific publications (max. 10 items, since 2015):

1. Malińska, K.; Dróżdż, D.; Postawa, P.; Stachowiak, T. Biochar—A Filler in “Bioplastics” for Horticultural Applications. Materials 2024, 17, 6208. https://doi.org/10.3390/ma17246208
2. Wystalska, K.; Malińska, K.; Sobik-Szołtysek, J.; Dróżdż, D.; Meers, E. Properties of Poultry-Manure-Derived Biochar for Peat Substitution in Growing Media. Materials 2023, 16, 6392. https://doi.org/10.3390/ma16196392
3. Dróżdż, D.; Malińska, K.; Wystalska, K.; Meers, E.; Robles-Aguilar, A. The Influence of Poultry Manure-Derived Biochar and Compost on Soil Properties and Plant Biomass Growth. Materials 2023, 16, 6314. https://doi.org/10.3390/ma16186314
4. Malińska, K.; Box, A.; Attitude, P.; Stachowiak, T.; Dróżdż, D. Performance of Biodegradable Biochar-Added and Bio-Based Plastic Clips for Growing Tomatoes. Materials 2022, 15, 7205. https://doi.org/10.3390/ma15207205
5. Dróżdż, D.; Malińska, K.; Attitude, P.; Stachowiak, T.; Nowak, D. End-of-Life Management of Biodegradable Plastic Dog Poop Bags through Composting of Green Waste. Materials 2022, 15, 2869. https://doi.org/10.3390/ma15082869
6. Kacprzak, M., Malińska, K., Grosser, A., Sobik-Szołtysek, J., Wystalska, K., Dróżdż, D., Meers, E. (2023). Cycles of carbon, nitrogen and phosphorus in poultry manure management technologies – environmental aspects. Critical Reviews in Environmental Science and Technology, 53(8), 914–938. https://doi.org/10.1080/10643389.2022.2096983
7. Dróżdż, D., Wystalska, K., Malińska, K., Grosser, A., Grobelak, A., Kacprzak, M. Management of poultry manure in Poland – Current state and future perspectives. Journal of Environmental Management 264, 2020, 110327. https://doi.org/10.1016/j.jenvman.2020.110327
8. Pudełko, A. and Postawa, P. and Stachowiak, T. and Malinska, K. and Dróżdż, D., Waste derived biochar as an alternative filler in biocomposites - mechanical, thermal and morphological properties of biochar added biocomposites. Journal of Cleaner Production, 2021, 123850. https://doi.org/10.1016/j.jclepro.2020.123850
9. Jaworski P., Malińska K., Żak A. (eds.). Academic Mentoring Program in Practice. Difin Publishing House, 2019. 1
0. Dokowicz M., Dyląg E., Knopik T., Kraśniewski A., Kulczycki E., Kurowska K., Lewicki J., Malińska K., Markuszewski M., Sobótka-Demianowska K., Walczyk-Maturszyk K., Mirecka J.,

Wierzchoń M. Development of Doctoral Study Programs with Diverse Profiles. Wydawnictwo Nauki i Szkolnictwa Wyższego, Warsaw, 2017. Development of doctoral study programs with diverse profiles.

5. Participation in research projects, including project management funded by grants (since 2015):

• Organic PLUS – an international project implemented in 2018-2022, financed by the European Commission's Horizon 2020 Programme – role: local coordinator, project team leader, and researcher. Project website: https://organic-plus.net/
• Nutri2Cycle – an international research project implemented in 2018-2023, financed by the European Commission's Horizon 2020 Programme – role: local coordinator, project team leader, and researcher. Project website: https://www.nutri2cycle.eu/
• Innovation Incubator 4.0 "Increasing the level of technological readiness for the market introduction of biodegradable mulch films in Plant cultivation by analyzing the current needs, requirements, and barriers related to introducing this type of product to the market, as well as analyzing the legal and technological conditions for the management of used biodegradable foils through composting," implemented in 2022-2023, financed by the Ministry of Science and Higher Education, role: coordinator and project team leader, and research executor. Project website: https://ctt.pcz.pl/aktualnosci/biodegradowalna-folia-do-sciolkowania-cut3-31.html
• AGRI-BIOCIRCULAR-HUB – an international project implemented in 2025-2028, financed by the European Commission's Horizon Europe Programme, role: local coordinator, project team leader, and research executor. Project website: https://agri-biocircular-hub.eu/

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense):
• Supervision of the doctoral thesis of Dr. Agnieszka Pudełko, entitled "Assessment of the feasibility of utilizing biodegradable plastic waste generated during plant cultivation by means of composting" (co-supervisor: Dr. DSc, Eng. Tomasz Stachowiak, prof. PCz), discipline: environmental engineering, 2022.
• Supervision of the doctoral thesis of Dr. Danuta Dróżdż, Eng. "Production and use of organic soil enhancers and growing media from agro-residues" (second supervisor: Prof. Erik Meers from Gent University), discipline: Environmental Engineering, Mining and Energy, and Bioscience Engineering, 2022 (PhD carried out jointly with Gent University, Belgium, as part of a joint PhD program in the Nutri2Cycle project, H2020, 2018-2023), Joint PhD program website: https://www.nutri2cycle.eu/student/danuta-drozdz/

7. International activities (since 2015):
• Implementation of research projects and assignments in international consortia (since 2018)
• Member of the public-private partnership Bio-based Industries Consortium (since 2024) Home Page Bio-based Industries Consortium (BIC)
• Member of the Steering Committee of the "European Sustainable Nutrient Initiative" within BIOREFINE Cluster Europe (since 2022), ESNI Community - Biorefine Cluster Europe
• Member of the International Scientific Committee of the "International Conference on Manure Management and Valorization "ManuREsource" (since 2021), ManuREsource - VCM vzw
• Ambassador of the Fulbright Program in Poland (2018-2020, 2023-2025, 2025-2027), Krystyna Malińska - Fulbright Poland

8. Other:
• Expert in the UNEP/GRID Warsaw Climate Leadership Program (since 2025) https://www.climateleadership.pl/pl/eksperci/krystyna-malinska • Member of Top 500 Innovators Association (since 2013) • Member of the Landscape Architecture Association (since 2024)

• Coordinator and co-organizer of the TopMinds mentoring program, supporting doctoral candidates at the early stages of their academic careers. https://topminds.pl/
• Patent applications for biodegradable mulching film (P.436214 and P.436213)
• Commercialization based on an agreement on the use of an invention registered with the Polish Patent Office and sharing of know-how (2023)

Education (skill development):
1. University of Warsaw, Faculty of Law and Administration: Postgraduate studies in intellectual property rights, 2014–2015
2. AGH University of Science and Technology in Kraków: Postgraduate studies in analytical chemistry in industry and environmental protection 2013-2014
3. Harvard University Office of Technology Development, MA, USA, Staff training, June 2013
4. University of Almeria, Research Results Transfer Office, Spain, Staff training, September 2013
5. Stanford University, USA: TOP500 Innovators - Science - Management - Commercialization, internship and training program, October 2011 - December 2011
6. Wyższa Szkoła Lingwistyczna in Częstochowa: Postgraduate studies - conference interpreter, 2009 – 2010
7. University of Ghent, Belgium: Food Science and Technology, Socrates-Erasmus academic exchange program, 2001 – 2002

Academic mobility:
1. 2017 Research internship at the Faculty of Food Science and Nutrition, Poznań University of Life Sciences, Poland (3 months)
2. 2016 Research internship at the Faculty of Veterinary Medicine and Animal Sciences, Department of Animal Nutrition, Poznań University of Life Sciences, Poland (3 months)
3. 2015 Research internship at the Ecotechnology Laboratory, Poznań University of Life Sciences, Poland (3 months)
4. 2014 Research internship at the Ecotechnology Laboratory, Poznań University of Life Sciences, Poland (1 month)
5. 2013 Research internship at the Ecotechnology Laboratory, Poznań University of Life Sciences, Poland (1 month)
6. 2013 Internship at the Advanced Distributed Learning (ADL) Co-Lab Initiative, Office of the Deputy Assistant of Defense USA, Orlando, FL, USA (2 weeks)
7. 2013 Research internship at Szar sp. z o. o., Częstochowa, Poland (3 months)
8. 2007 Internship Research fellowship under the USDA N. E. Borlaug International Agricultural Science & Technology Fellowship Program at the University of Georgia Biorefining & Carbon Cycling Program, USA (2 months)
9. 2006 Research fellowship under the Junior Research Grant W. Fulbright Program at Penn State University, Department of Agricultural and Biological Engineering, USA (12 months)
10. 2001 Internship at ConAgra Foods, Grain Processing Company, Hastings, MN, USA (3 months)

Profiles of academic teachers teaching at the doctoral school, representing the scientific discipline of Automation, Electronics, Electrical Engineering, and Space Technologies

1. Name and surname: Krzysztof Chwastek

2. Academic degrees and titles (academic discipline, year of award):
Dr. Hab. (Electrical Engineering, 2013),
Ph.D. (Electrical Engineering, 2007)

3. Main areas of research interest:
Soft and hard magnetic materials, mathematical description of magnetization curves 4

. Most important scientific publications (max. 10 items, since 2015):
1. Krzysztof Chwastek, Radosław Jastrzębski, Anna Przybył, Piotr Gębara, Monika Gębara, Roman Gozdur, Ajay Pal Singh Baghel, Boggavarapu Sai Ram, "The effect of DC bias on the magnetization curves described with the T(x) model," Physica B 714 (2025), 417378
2. Krzysztof Chwastek, Mariusz Najgebauer, Branko Koprivica, Marko Rosić, "The features of two approaches to describe magnetic anisotropy in non-grain-oriented electrical steels," COMPEL 44(3) (2025), 314
3. Boggavarapu Sai Ram, Ajay Pal Singh Baghel, Krzysztof Chwastek, Shrikrishna V. Kulkarni, Laurent Daniel, Marcos Flavio de Campos, Nlebedim Ikenna Cajetan, Modeling of Angular Behavior of Core Loss in Grain-Oriented Laminations Using the Loss Separation Approach, Journal of Superconductivity and Novel Magnetism 38 (2025), 49
4. Krzysztof Chwastek, Piotr Gębara, Anna Przybył, Roman Gozdur, Ajay PS Baghel, Boggavarapu Sai Ram, An alternative formulation of the Harrison model, Applied Sciences 13 (2023), 12009
5. Krzysztof Chwastek, Paweł Jabłoński, Dariusz Kusiak, Tomasz Szczegielniak, Vaclav Kotlan, Pavel Karban, The effective field in the T(x) hysteresis model, Energies 16 (5) (2023), 2237
6. Anna Przybył, Piotr Gębara, Roman Gozdur, Krzysztof Chwastek, Modeling of magnetic properties of rare-earth hard magnets, Energies 15 (21) (2023), 7951
7. Krzysztof Chwastek, The effects of sheet thickness and excitation frequency on hysteresis loops of non-oriented electrical steel, Sensors 20 (22) (2022), 7873
8. Mateus Dias, Fernando Landgraf, Krzysztof Chwastek, Modeling the Effect of Compressive Stress on Hysteresis Loop of Grain-Oriented Electrical Steel, Energies 15 (3) (2022), 1128
9. Roman Gozdur, Piotr Gębara, Krzysztof Chwastek, A Study of Temperature-Dependent Hysteresis Curves for a Magnetocaloric Composite Based on La(Fe, Mn, Si)13-H Type Alloys, Energies 13 (6) (2020), 1491
10. K. Chwastek, A.P.S. Baghel, B. Sai Ram, B. Borowik, Laurent Daniel, S.V. Kulkarni, "On some approaches to model reversible magnetization processes," Journal of Physics D: Applied Physics 51 (14) (2018), 145003

5. Participation in scientific projects, including project management funded by grants (since 2015):
none

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
1. Artur Cywiński, "Optimization of the spatial distribution of multi-beam cable lines to minimize energy losses," September 28, 2020, Faculty of Electrical Engineering, CUT
2. Radosław Jastrzębski, "Application of the GRUCAD model in describing the magnetic properties of composite cores," July 14, 2020, Faculty of Electrical Engineering, CUT

7. International activity (since 2015):
Informal collaboration with scientists from the following foreign research centers:
- Dnepropetrovsk National University, Dnipro, Ukraine

- RWTH Aachen University, Germany - Indian Institute of Technology Bombay, Mumbai, India
- Universidade Federal Fluminense, Volta Redonda, Brazil
- Group of Electrical Engineering-Paris (GeePs), Univ Paris-Sud, France
- University of Kragujevac, Čačak, Serbia
- Lviv Polytechnic National University, Lviv, Ukraine
- J.J. Strossmayer University of Osijek, Osijek, Croatia
- University of Sao Paulo, Sao Paulo, Brazil
- University of West Bohemia, Pilsen, Czech Republic
- Ames Laboratory, Ames, Iowa, USA

Research internship at the Faculty of Technical Sciences in Čačak, University of Kragujevac, Serbia, May 29, 2023-June 28, 2023
Research internship at the Faculty of Electrical Engineering, University of West Bohemia in Pilsen, Czech Republic, June 1, 2022-August 31, 2022
Review of the research project "Towards multi-scale modeling of magnetoelastic and magnetocaloric phenomena" for the Czech Science Foundation (GAČR – equivalent to the Polish National Science Centre), 2020
Invited lecture "The advantages and drawbacks of the Jiles-Atherton model" presented at the 10th International Conference on Electrical, Electronics and Computing Engineering – IcETRAN 2023, East Sarajevo, Bosnia and Hercegovina
Two-part invited paper "Fundamentals on magnetism for science and engineering" presented to the audience of the 2nd Colombian School on Magnetism and Magnetic Materials, December 3-6, 2019, Bogota, Colombia

8. Other:

Since 2020, Professor Chwastek has been included in the list of the world's top 2% most influential scientists, compiled by Stanford University (both for his overall scientific achievements and for individual years).
Recipient of the 2021 Silesian Science Award

1. Name and surname:
Artur Durajski

2. Academic degrees and titles (scientific discipline, year of award):
- Habilitation / field of exact and natural sciences / discipline: physical sciences / 2019
- Ph.D. / field of physical sciences / discipline: physical sciences / 2014

3. Main areas of scientific interest:
condensed matter physics, superconductivity, 2D materials, anode materials, ion batteries.

3. Most important scientific publications (max. 10 items, since 2015):
- High-temperature superconductivity in Th-B-H systems via nonclathrate design, Phys. Rev. B 112, 054513 (2025)
- Designing lithophilic interfaces for robust anode-free lithium metal batteries, Nano Lett. 25, 10970-10976, (2025)
- High-temperature ternary superhydrides: A strategic roadmap to optimal superconducting parameters, Adv. Funct. Material. 35, 2423680 (2025)
- Prediction of p-block-based ternary superconductors XC2H8 at low pressure, npj Comput. Material. 10, 289 (2024)
- Superconductivity in Ce-B-H system at high pressure, J. Mater. Chem. C 12, 16881–16887 (2024)
- Investigation of N3C5 and B3C5 bilayers as anode materials for Li-ion batteries by first-principles calculations, Sci. Rep. 14, 11180 (2024)
- Critical temperature of the nonadiabatic superconducting state in mono- and bilayer systems, Phys. Rev. B 108, 054512 (2023)
- Computational insight into bilayer NC7 anode material for Li/Na/Mg-ion batteries, Comput. Material. Sci. 225, 112194 (2023).
- New superconducting superhydride LaC2 H8 at relatively low stabilization pressure, Phys. Chem. Chem. Phys. 23, 25070 (2021).
- Isotope effect in superconducting lanthanum hydride under high compression, Phys. Rev. B 101, 214501 (2020)

4. Participation in research projects, including project management, financed by grants (since 2015):
- National Science Centre (NCN): OPUS 24 - 2022/47/B/ST3/00622. Implementation period: 2023-2027. Position: Project Manager
- National Science Centre (NCN): OPUS 26 – 2023/51/B/ST8/01624. Implementation period: 2024-2026. Position: Performer

5. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
- Discipline: Materials Science / Title: Stability and Degradation of Two-Dimensional Anode Materials Based on Modified Graphene / Year of defense: 2025
- Discipline: Physical Sciences / Title: Analysis of the Electron-Phonon Structure and Thermodynamic Properties of Selected Two-Dimensional Superconductors / Year of defense: 2024
- Discipline: Physical Sciences / Title: First-Principles Description of the Hydrogen Molecule: Dynamical and Statistical Properties and Interaction with the Environment / Year of defense: 2023

6. International activity (since 2015):
- Collaboration with, among others, the following centers: Deakin University, Australia / Royal Melbourne Institute of Technology, Australia / Jiangsu Normal University, China / Jilin University, China

8. Other: ----------

1. Name and surname:
Sławomir Gryś

2. Academic degrees and titles (scientific discipline, year of award):

Dr. Hab. Computer Science 2013,
Dr. Electrical Engineering 2003.

3. Main areas of scientific interest:

application of infrared thermography in non-destructive testing, metrology of non-electrical quantities, automotive electronics

4. Major scientific publications (max. 10 items, since 2015):
• Gryś S.: (2024) "Computer Arithmetic in Practice. Exercises and Programming," CRC Press/Taylor and Francis Group, Bota Raton, ISBN 978-1-032-42565-8 (300 points).
• Jabłoński, P.; Kasprzak, T.; Gryś, S.; Minkina, W: (2025) Theoretical Approaches to the Heating of an Extensive Homogeneous Plate with Convective Cooling.Energies 2025, 18, 4785. https://doi.org/10.3390/en18174785 (140 pts).
• Minkina W. Gryś, S.: (2024) “Thermographic Measurements in Electrical Power Engineering—Open Discussion on How to Interpret the Results”, Appl. Sci. 2024, 14, 4920, https://doi.org/10.3390/app14114920 (100 points).
• Gryś S., Minkina W.: (2023) “Discretization Method of Continuous-Time Dynamic Linear Model”, Intl. Journal Of Electronics And Telecommunications, 2023, vol. 69, no. 2, pp. 281-286, doi: 10.24425/ijet.2023.144362 (70 pts).
• Gryś S.: (2022) “An Experimental Bench for Testing a S-CAM Front Car Camera”, Intl. Journal Of Electronics And Telecommunications, 2022, vol. 68, no. 4, pp. 755-760, doi: 10.24425/ijet.2022.143882 (70 points).
• Gryś S., Minkina W.: (2022) “Noninvasive Methods of Active Thermographic Investigation: Short Overview of Theoretical Foundations with an Example of Application”, Energies, 2022, Vol. 15, 4865, pp. 1-22. Submitted to the Special Issue "Selected Papers from the 54th Inter-University Metrology Conference" 2022.09.21-23 LIV MKM, Kielce-Masłów, https://www.mdpi.com/1996-1073/15/13/4865, https://doi.org/10.3390/en15134865 (140 points).
• Gryś S., Dudzik S.: (2022) “Investigation on dual-domain data processing algorithm used in thermal non-destructive evaluation” QIRT Journal 19 (3), p. 196-219. https://doi.org/10.1080/17686733.2020.1841443 (140 points).
• Gryś S., Najgebauer M.: (2021) “An attempt of accurate assessment of the hysteresis loop and power loss in magnetic materials during control measurements” Measurement 174 (2021) 108962, https://doi.org/10.1016/j.measurement.2021.108962 (200 points)
• Gryś S.: (2018) "Determining the dimension of subsurface defects by active infrared thermography – experimental research" J. Sens. Sense. Syst., 7, p. 153–160, 2018 (40 points)
• Gryś S., Minkina W., Vokorokos L: (2015) "Automated characterization of subsurface defects by active IR thermographic testing - Discussion of step heating duration and defect depth determination" Infrared Physics & Technology 68 (2015), p. 84–91. ISSN: 1350-4495 (IF(2013)=1.460, List A of the Ministry of Science and Higher Education – 25 points)

5. Participation in research projects, including project management funded by grants (since 2015):
• Research project entitled: "Standardization of the procedure for sizing defects using active infrared thermography," application no. PM-II/SP/0003/2024/02, financed by the "Polish Metrology II" program, Project Manager.
• Research project entitled: "Rainwater storage and treatment system for photovoltaic farms," application no. HYDROSTRATEG-II/0001/2023, financed under the second call for proposals – the

Government Strategic Program HYDROSTRATEG "Innovations for Water Management and Inland Navigation," Project Manager.

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense):
Artur Maciąg, Electrical Engineering, "Standardization of methods for measuring the efficiency of second-harmonic light wave generation interacting with optically nonlinear materials," 2020.

7. International activities (since 2015):
• Germany, 4-week research internship at the Technical University of Dresden, 2023.
• Czech Republic, 6-week research internship at VŠB - Technicka Universita Ostrava, 2022.
• Czech Republic, lectures at VŠB - Technicka Universita Ostrava as part of the ERASMUS+ program in 2018.
• Romania, lectures at Universitatea "1 Decembrie 1918" Alba Iulia as part of the ERASMUS program in 2015. • Israel, study visit to Ariel University. 2015.

8. Other:
• Vice-Chairman of the Metrology Commission of the Polish Academy of Sciences (PAN) Katowice Branch since 2019.
• Member of the POLSPAR Management Board for the 2023-2025 term.
• Vice-Chairman of the Częstochowa Branch of PTETIS – since 2021.
• Member of the Metrology Advisory Board, Cambridge Scholars Publishing since 2018.
• Member of the NDT Editorial Advisory Board since 2023.
• Member of the IJET Editorial Advisory Board since 2020.
• Chairman of the Scientific Committee of the LII Interuniversity Conference of Metrologists MKM’2020.
• Chairman of the Organizing Committee of the XLIX Interuniversity Conference of Metrologists MKM’2017.
• Member of the Scientific Committee of the SP’2024 Measurement Systems Conference.
• Member of the Scientific Committee of the Problems and Progress in Metrology PPM’2024 Conference.
• Member of the Scientific Committee of the "21st Century Engineer" organized annually by the ATH in Bielsko-Biała – from 2014 to the present.
• Member of the Scientific Committee of the Inter-University Conference of Metrologists MKM – from 2015 to the present.
• Expert of the Slovak Research and Development Agency.
• Expert of the National Centre for Research and Development.
• Expert of the National Science Centre. • Expert of the Data Processing Centre.
• Scientist of the Future Award 2024 - Smart Growth Forum Foundation - Gdańsk, June 20, 2024.
• Honorable Mention in the 3rd edition of the Professor Bogdan Skalmierski Silver Violin Award 2023.

Profiles of academic teachers teaching at the doctoral school representing the scientific discipline of Mechanical Engineering

1. Name:
Artur Tyliszczak

2. Academic degrees and titles (academic discipline, year of award):
Professor of Engineering and Technology,
2020 PhD in Mechanical Engineering,
2014 PhD in Mechanical Engineering, 2002

3. Main areas of research interest:
Professor Tyliszczak's research interests and research focus on fluid mechanics in its broadest sense. He is an expert in the field of mathematical-numerical modeling of laminar and turbulent flows (CFD), two-phase flows, reactive flows, and combustion. He specializes in the application and development of high-order methods, algorithms, and large-scale computing.

4. The most important scientific publications, (max. 10 items, since 2015):
1. Wawrzak K., Wawrzak A., Tyliszczak A., LES of a hydrogen flame controlled by mass flow oscillations and rotating shear layer disturbance, International Journal of Heat and Mass Transfer, Vol. 255, pp. 127742, 2026.
2. Kaminski P., Tyliszczak A., Elsner W., Niegodajew P., Turbulent separation control with a tilted wavy wall: A promising approach for energy savings in aerodynamic systems, Energy, Vol. 324, pp. 135758, 2025.
3. Kaminski P., Tyliszczak A., Elsner W., Niegodajew P., Sensitivity analysis of wavy wall performance in turbulent separation control: Effects of amplitude and period variations, Journal of Wind Engineering and Industrial Aerodynamics, Vol. 260, pp. 106048, 2025.
4. Caban L., Tyliszczak A., Geurts B., Domaradzki J., Assessment of LES-ADM Accuracy for Modeling of Auto-Ignition and Flame Propagation in a Temporally-Evolving Nitrogen-Diluted Hydrogen Jet, Flow, Turbulence and Combustion, Vol. 115, pp. 303--345, 2025.
5. Wawrzak A., Wawrzak K., Boguslawski A., Tyliszczak A., Geurts B., Hydrogen jet flame control by global mode, Flow, Turbulence and Combustion, Vol. 112, pp. 61--83, 2024.
6. Boguslawski A., Tyliszczak A., Geurts B., Approximate deconvolution discretization, Computers & Mathematics with Applications, Vol. 154, pp. 175--198, 2024.
7. Li Y., Noack B., Wang T., Maceda G., Pickering E., Shaqarin T., Tyliszczak A., Jet mixing enhancement with Bayesian optimization, deep learning and persistent data topology, Journal of Fluid Mechanics, Vol. 991, pp. A5, 2024.
8. Wawrzak A., Caban L., Tyliszczak A., Mastorakos E., Numerical analysis of turbulent nitrogen-diluted hydrogen flames stabilized by star-shaped bluff bodies, Applied Energy, Vol. 364, pp. 123075, 2024.
9. Stempka J., Tyliszczak A., LES of autoignition process in a turbulent droplet-laden mixing layer--impact of an evaporation model and discretization method, Combustion Theory and Modeling, Vol. 28, pp. 531--553, 2024.
10. Wawrzak A., Boguslawski A., Tyliszczak A., The role of suction, initial shear layer thickness, and co-flow temperature on hydrogen flame lift-off in counter-current nozzles, Proceedings of the Combustion Institute, Vol. 40, pp. 105520, 2024.

5. Participation in scientific projects, including project management funded by grants (since 2015): Project management:

• NCN-OPUS, Optimization of hydrogen oxy-combustion and hydrogen-ammonia combustion using experimental techniques, high-fidelity numerical simulations, and machine learning (2025-2028).
• HORIZON Europe, HydrogEn combuSTion In Aero Engines (2022-2026).
• NCN-OPUS, Physics of turbulent diffusion flames behind variable geometry bluff-bodies with wavy walls (2020-2024).
• NCN-OPUS, Development of passive and active flow control methods for optimization of combustion processes in diffusion flames (2019-2024).
• NCN-OPUS, Numerical modeling and analysis of spark ignition and auto-ignition phenomena in turbulent two-phase flows (2016-2019).
• NCN-OPUS, Physics of forced ignition and autoignition in turbulent flows (2015-2018).

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense):
- Agnieszka Wawrzak - Jakub Stempka - Ewa Szymanek
- Lena Caban

7. International activity (since 2015):
- Visiting professor (Cambridge University, 2016)
- Visiting professor (University of Southern California, 2022)
- Participation in dozens of scientific conferences
- Collaboration with Harbin Institute of Technology, Cambridge University, University of Twente

8. Other:
Prof. A. Tyliszczak is the recipient of prestigious scientific awards, including the Individual Scientific Award of Division IV of the Polish Academy of Sciences (2017), and the Grand Prix in the Silver Violin competition named after Prof. Bogdan Skalmierski Award, organized by the Polish Society of Theoretical and Applied Mechanics and the Polish Society of Technical and Applied Electrical Engineering (2018), Fulbright Senior Award (2019), and Individual Scientific Award of the Minister of National Education (2021).

1. Name and surname:
Arkadiusz Szymanek

2. Academic degrees and titles (discipline, year of award):
PhD in Environmental Engineering, P
hD in Mechanics and Power Engineering.

3. Main areas of research interest:
Flue gas treatment technologies, mechanical and electromagnetic activation, conventional and renewable energy.

4. Most important scientific publications (max. 10 items, since 2015):
• Angelika Kochel, Aleksandra Cieplińska, Arkadiusz Szymanek. "Flue gas desulfurization in oxygen-enriched atmospheres using modified limestone sorbents"; Energy & Fuels DOI: 10.1021/ef5021439, 2015
• Szymanek A., de las Obras-Loscertales M., Pajdak A. Effect of sorbent reactivity on flue gas desulphurization in fluidized-bed boilers under air firing mode. The Canadian Journal of Chemical Engineering, Volume 96, April 2018, 895-902.
• Pajdak A., Walawska B., Szymanek A. The effect of structure modification of sodium compounds on the efficiency in removing SO2 and HCl from fumes in the conditions of circulating fluid bed Chemical and Biochemical Engineering Quarterly 31 (3) 261–273 (2017)
• Szymanek A., Knaś K. Fuels from waste in the circular economy as an element of multi-sector synergy, Mineral Engineering ISSN 1640-4920 Volume 2. 2022
• Szwaja M., Chwist M., Szymanek A., Szwaja S., Pyrolisys oil blends n-butanol as a fuel for power generation by an internal combustion engine, Energy 262, 2022, 125339
• Szymanek A., Pędziwiatr D. Heat pump with an oil recovery system in direct evaporation ground-source evaporators. Energy Market 2023. No. 2
• Szymanek A. Pędziwiatr D. The Impact of Ground Heat Exchanger Sizing on the Energy Efficiency of Direct Evaporation/Water Heat Pumps, Part 1, 2023, No. 7-8.
• Szymanek A. Pędziwiatr D. The Impact of Ground Heat Exchanger Sizing on the Energy Efficiency of Direct Evaporation/Water Heat Pumps, Part 1, 2023, No. 9.
• Szymanek A., Szwaja M. Combustion Comparative Analysis of Pyrolysis Oil and Diesel Fuel under Constant-Volume Conditions. Combustion Energies 4(195), 2023
• Nabiałczyk Michał, Bala-Litwiniak Agnieszka, Musiał Dorota, Arkadiusz Szymanek, Walnut Shell Pretreatment in Regard to Its Combustion Properties, Materials Vol. 18, 2025
5.

Participation in scientific projects, including project management funded by grants (since 2015):

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, defense year)
◦ Daniel Markiewicz, PhD, Eng. - 2012, Environmental Engineering, Częstochowa University of Technology
◦ Aleksandra Sambor, PhD, Eng. - 2014, Environmental Engineering, Częstochowa University of Technology
◦ Martyna Jabłońska, PhD, Eng. - 2015, Energy Engineering, Silesian University of Technology ◦ Angelika Kochel, PhD, Eng. - 2016, Energy Engineering, Częstochowa University of Technology

◦ Krzysztof Knaś, PhD, Eng. - 2022, Mechanical Engineering, Częstochowa University of Technology ◦ Magdalena Szwaja, PhD, Eng. - 2022, Mechanical Engineering, Częstochowa University of Technology
◦ Damian Pędziwiatr – 2023, Mechanical Engineering, Częstochowa University of Technology ◦ Aleksandra Cieplińska, PhD, Eng., 2023, Mechanical Engineering, Częstochowa University of Technology
7. International activities (since 2015):

8. Other:

1. Name and surname:
Maciej Marek

2. Academic degrees and titles (scientific discipline, year of award):
PhD Eng, Mechanics,
2006 PhD DSc Eng, Mechanical Engineering, 2019

3. Main areas of research interest:
Computational fluid dynamics Random solid bed modeling Optimization methods

4. Most important scientific publications (max. 10 items, since 2015):
M. Marek, M. Wilczyński, A. Durajski, P. Niegodajew, "Preventing near-wall particles' ordering in narrow randomly packed beds of spheres," Advanced Powder Technology, 36 (2025), pp. 105060
M. Marek, M. Wilczyński, A. Durajski, P. Niegodajew "Reducing wall effect in random packed beds of spheres through corrugation of the container's wall", Powder Technology, 467, pp. 121586 (2026)
M. Marek, P. Niegodajew "Experimental analysis of the orientation distribution of cylindrical particles with different aspect ratios in random packed beds", Advanced Powder Technology 34 (2023) 104206
T. Tomczak, M. Księżyk, J. Hanke, M. Kostur, M. Marek "Double precision hardware accelerator for incompressible Navier–Stokes equations solver based on discontinuous Galerkin method", Advances in Engineering Software 176 (2023) 103393
P. Niegodajew, A. Durajski, P. Rajca, K. Gruszka, M. Marek "Experimental and numerical study on the orientation distribution of cylindrical particles in random packed beds", Chemical Engineering Journal 432 (2022) 134043
P. Niegodajew, M. Marek “Statistical variation of characteristics of random packed bedsof Raschig rings: The influence of the sample size”, Particuology 56C (2021) pp. 50-61
P. Niegodajew, K. Gruszka, M. Marek "Numerical study of cylindrical particles' orientation in narrow packed beds", Powder Technology 386 (2021), pp. 528-539
M. Marek, P. Niegodajew "A new experimental approach to examination of orientation distribution of cylindrical particles in random packed beds", Powder Technology 360 (2020) pp. 569-576
M. Marek “Gas flow maldistribution in random packed beds of non-spherical particles – A CFD study”, Chemical Engieering Science 197 (2019) pp. 296-305
M. Marek “Numerical simulation of a gas flow in a real geometry of random packed bed of Raschig rings”, Chemical Engieering Science 161 (2017) pp. 382-393 5.

Participation in research projects, including project management funded by grants (since 2015):
NCN (OPUS) research project "Modeling 2-Phase Flow in Complex Geometric Structures", no. UMO-2014/15/B/ST8/04762, 2015-2019, contractor
NCN research grants, SONATA, UMO-2018/31/D/ST8/00199, "Experimental and Numerical Analysis of the Orientation Distribution of Non-Spherical Particles in Randomly Packed Solid Beds", 2019-2021, contractor Research and Development Project, POIR.01.01.01-00-0936/18, titled "GMFlowComp - An Innovative System Accelerating Computational Fluid Dynamics Calculations Based on a Computer with a Specialized CFD Integrated Circuit, Performing Hardware CFD Calculations Using the Discontinuous Galerkin Method," co-financed by the European Union from the European Regional Development Fund under the Smart Growth Program. The project is being implemented as part of the National Centre for Research and Development's Fast Track competition. It is being carried out in collaboration with OKANE sp. j. (investigator).

NCN, OPUS research grant, DEC-2023/51/B/ST8/01624/R, Mitigating Near-Wall Effects in Random Solid Beds, 2024-2026, Senior Researcher

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, defense year)
Mariusz Księżyk, "Application of High-Order Algorithms in Combustion with the Immersed Boundary Method in Flow Modeling" (discipline: mechanics, conduit opening: 2015, conduit closing in 2017) – co-supervisor
Agnieszka Wawrzak, "Modeling and Analysis of Forced Ignition and Autoignition Processes in Turbulent Conditions of Diffusion Combustion" (discipline: mechanics, conduit opening: 2015, doctoral defense: 2018) – co-supervisor
Michał Wilczyński, "Counteracting Wall Effects in Random Solid Beds" (discipline: mechanical engineering, ongoing) – co-supervisor

7. International Activities (since 2015):
Collaboration with the University of Coimbra (Portugal) in connection with the construction of an EIT tomograph for the analysis of flows in random beds – visit to 2016 (4 days), visit in 2021 (4 days), one-month research internship in 2022 (as part of the ANIMATE project)

From 2011 to present – editor of the ERCOFTAC (European Research Community on Flow, Turbulence, and Combustion) Bulletin.

8. Other:
Member of the Polish Society of Theoretical and Applied Mechanics (PTMTS).
Associate editor of the Archive of Mechanical Engineering published by the Polish Academy of Sciences.

1. Name and surname:
Paweł Niegodajew

2. Academic degrees and titles (discipline, year of award):
2016 – PhD in mechanics
2024 – habilitation in mechanical engineering

3. Main areas of research interests:
Fluid mechanics; energy; physics.

4. Most important scientific publications (max. 10 items, from 2015):
Kamiński P., Tyliszczak A., Elsner W., Niegodajew P., 2025. Turbulent separation control with a tilted wavy wall: A promising approach for energy savings in aerodynamic systems. Energy 324, 135758. (200 points)
Wrona I.A., Niegodajew P., Durajski A.P., 2025. High-Temperature Ternary Superhydrides: A Strategic Roadmap to Optimal Superconducting Parameters. Advanced Functional Materials 35 (26), 2423680. (200 pts)
Wrona I.A., Niegodajew P., Li Y., Durajski A.P., 2024. Prediction of p-block-based ternary superconductors XC_2H_8 at low pressure. npj Computational Materials 10 (1), 289. (200 pts)
Skrzyniarz M., Sajdak M., Biniek-Poskart A., Skibiński A., Maroszek A., Niegodajew P., Zajemska M., 2024. Economic benefits for the metallurgical industry from co-combusting pyrolysis gas from waste. Energy 313, 133782. (200 points)
Dróżdż A., Örlü R., Sokolenko V., Schlatter P., Elsner W., Niegodajew P., 2024. Hot-wire spatial resolution issues in adverse pressure gradient turbulent boundary layers. Measurement 237, 115229. (200 points)
Kamiński P., Niegodajew P., Dróżdż A., Sokolenko V., Tyliszczak A., Elsner W., 2024. Numerical analysis of novel wavy wall-based control of turbulent boundary layer separation. Aerospace Science and Technology 149, 109167. (200 pts)
Niegodajew P., Procházka P., Uruba V., Elsner W., Gnatowska R., 2024. Effect of the angle of attack on the flow around two non-identical-height square buildings in tandem arrangement. Building and Environment 2024, 111076. (200 points)
Niegodajew P., Durajski A.P., Rajca P., Gruszka K.M., Marek M., 2022. Experimental and numerical study on the orientation distribution of cylindrical particles in random packed beds. Chemical Engineering Journal 432, 134043. (200 points)
Elsner W., Wysocki M., Niegodajew P., Borecki R., 2017. Experimental and economic study of small-scale CHP installation equipped with a downdraft gasifier and internal combustion engine. Applied Energy 202, 213–227. (200 points)
Niegodajew P., Asendrych D., 2017. An interfacial heat transfer in a countercurrent gas–liquid flow in a trickle bed reactor. International Journal of Heat and Mass Transfer 108, 703–711. (200 points)

5. Participation in scientific projects, including project management financed by grants, (since 2015):
October 2021 – January 2025 OPUS 20 (NCN) “Development of a New Passive Flow Control Method Based on an In-Depth Analysis of Physical Phenomena at the Wall” Position: Contractor Contract No.: UMO-2020/39/B/ST8/01449
October 2020 – January 2022 ANIMATE (NAWA) “Advanced Numerical Modeling and Experimental Research on Turbulent and Transitional Flows with Applications to Chemical, Power, Automotive, and Aeroengine Industries” Position: Contractor Contract No.: PPI/APM/2019/1/00062
October 2018 – January 2021 OPUS 13 (NCN) “Passive Methods for Controlling the Turbulent Boundary Layer Near Separation” Position: Prime Contractor (employed as a

post-doc) Contract No.: UMO-7/25/B/ST8/02480 07-2019 – 06.2021 SONATA 14 – (NCN) “Experimental and numerical analysis of the orientation distribution of non-spherical particles in randomly packed solid beds” Position: Project Manager Contract No.: UMO-2018/31/D/ST8/00199 01.2019 – 12.2020 NAWA “Experimental and numerical research of vortex rings” (project carried out in cooperation with the University of Ostrava - Czech Republic) Position: Contractor Contract No.: PPN/BIL/2018/1/00030 09.2015 – 09.2017 OPUS 8 – (NCN) “Modeling of 2-phase flow in complex geometric structures” Position: Contractor Contract No.: UMO-2014/15/B/ST8/04762 10.2012 – 09.2014 DoktoRIS Project – "Expansion of the CFD model of the CO2 capture process" (scholarship remuneration) Position: Project Manager Contract No.: 200226/63/2013 08.2014 – 07.2015 PRELUDIUM 6 – (NCN) "Numerical and experimental analysis of countercurrent, two-phase flow (gas-liquid) in a packed column under non-isothermal conditions" Position: Project Manager Contract No.: UMO-2013/11/N/ST8/01504 10.2010 – 04.2015 Strategic Project – (NCBIR) "Advanced Technologies for Energy Acquisition" Task No. 1: "Development of technologies for high-efficiency "Zero-emission" coal-fired units integrated with CO2 capture from flue gases" Position: Principal Investigator (position – Research Assistant) Contract No.: SP/E/1/67484/10

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
PhD Student Karolina Gajewska Dissertation topic: Controlling the boundary layer separation phenomenon using non-streamlined bodies My role: Co-supervisor Defense: 2025 PhD Student Magdalena Skrzyniarz Dissertation topic: Analysis of the possibilities of utilizing environmentally harmful products of thermal processing of caloric waste for fueling metallurgical heating furnaces My role: Principal supervisor Defense: Defense date: December 12, 2025
PhD Student Piotr Kamiński Dissertation topic: Numerical modeling of the turbulent boundary layer on wavy and irregular surfaces My role: Co-supervisor Defense: Planned for the first half of the year 2026 4th
PhD Student Michał Wilczyński Dissertation topic: Counteracting near-wall effects in random solid beds My role: main supervisor T
he PhD student is currently in his second year of studies at the doctoral school

7. International activity (since 2015):
Internships abroad:
2022 – KTH Royal Institute of Technology, Stockholm, Sweden (3 weeks)
2019 – Technical University of Ostrava in Ostrava, Czech Republic (2 weeks)
2018 – Technical University of Ostrava in Ostrava, Czech Republic (1 month)

1. Name and surname:
Przemysław Postawa

2. Academic degrees and titles (discipline, year of award):
PhD Eng. Mechanics and Machine Design – 2003,
PhD DSc Eng. Mechanical Engineering - 2014

3. Main areas of scientific interest:
• Polymers and their composites,
• Polymer testing methods,
• Advanced polymer testing methods (DSC, DMTA, TGA, STA),
• Polymer recycling (technological problems and material properties),
• Biodegradable materials and biocomposites,
• Polymer processing technologies (injection molding, extrusion, etc.)
• Polymer degradation,

4. Most important scientific publications (max. 10 items, since 2015):
Selected scientific publications:
• Kalwik A., Postawa P.: Analysis of Physical Phenomena and Changes in Thermal and Structural Properties of Polymer Materials after Aging in Natural Conditions, Acta Physica Polonica A, Vol. 139, No. 5, 2021, DOI: 10.1109/Postawa.2021.1109 ... 10.12693/APhysPolA.139.562
• Stachowiak T., Postawa P., Malińska K., Dróżdż D., Pudełko A.: Comparison of Physical and Thermal Properties of Mulching Films Made of Different Polymeric Materials, Materials, MDPI publishing house, Vol.15, Iss.21, 2022,
• Postawa P., Jeż B., Norwiński S., Kalwik A.: Analysis of the Influence of the Geometric Features of the Filler on the Thermal Properties and Structure of the Composites in the Polypropylene Matrix, Bulletin of the Polish Academy of Sciences-Technical Sciences, Vol.71, No. 5, 2023, DOI: 10.24425/bpasts.2023.147064
• Murcinkowa Z., Postawa P., Winczek J.: Parameters Influence on the Dynamic Properties of Polymer-Matrix Composites Reinforced by Fibers, Particles, and Hybrids, Polymers, MDPI, Vol. 14, Issue 15, 2022
• Górak P., Postawa P.: Lightweight Ultracomposite Aggregate – Ecological and Beneficial Use of Mineral and Artificial Waste, Construction Materials, No. 6 (598), 2022, DOI ID: 10.15199/33.2022.06.08
• Szarek A., Postawa P., Stachowiak T., Paszta P., Redutko J., Mordal K., Kalwik A., Łukomska-Szarek J., Gzik M., Joszko K., et al.: The Analysis of Polyethylene Hip Joint Endoprostheses Strength Parameters Changes after Use inside the Human Body, Materials, vol. 14, Issue 22,
• Górak P., Postawa P., Trusilewicz L., Łagosz A.: Lightweight PET Based Composite Aggregates in Portland Cement Materials - Microstructure and Physicochemical Performance, Journal of Building Engineering, Vol. 34, 2021,

Patents:
1. Górak P., Postawa P., Kret J.: Lightweight composite aggregate, Częstochowa University of Technology, Częstochowa. PL 236670 B1. Application No. 428025 dated December 3, 2018. Published in 08.02.2021 WUP 03/21
2. Pat. 238764 - Stryczak M., Postawa P.: Assembly for impregnating flat porous or fibrous materials, Year of publication: 2021, Częstochowa University of Technology, Częstochowa. Application no. 428209 dated December 17, 2018. Published 04.10.2021 WUP 27/21

3. Pat. 238763 - Stryczak M., Postawa P.: Method for producing a hydrophobic coating on a flat porous or nonwoven material, Częstochowa University of Technology, Częstochowa. Application no. 428208 dated December 17, 2018. Published October
4, 2021, WUP 27/21 5. Participation in research projects, including project management funded by grants (since 2015):
HORIZON-CSA-HORIZON Coordination and Support Actions Grant agreement number: 10118686, EXCELLENCE HUB FOR A SMART AGRICULTURE AND CIRCULAR BIOECONOMY TOWARDS A SUSTAINABLE AGRIFOOD SECTOR IN WIDENING COUNTRIES (AND BEYOND),2025-2028
Horizon 2020 Framework Programme, H2020-SFS-08-2017, Pathways to phase-out contentious inputs from organic agriculture in Europe, 2018-2022
POIR.01.01.01-00-0724/15-003, Development of a technology for the modification and processing of waste textile materials based on polyethylene terephthalate with the addition of silicone, 2015-2017
Knowledge Economy, Measure: Research and Innovation in Enterprises, Sub-Measure: Research and Development Projects of Enterprises, Operational Programme RPO, Małopolska Voivodeship, 2014-2020. Development of production technology for qualitatively and functionally improved valves for flexible bag-in-box packaging used in the food industry, 2021-2022
POIR.02.03.02-30-0079/20, Development of an innovative chemical anchor enabling the best adhesion to the hole walls and filling of voids while eliminating the need to remove drill cuttings and rotate the anchor after setting, 2021-2022
National Science Centre NCN – 3 Research project No. N N508 630740, The influence of injection mold thermostating conditions on the structure, properties, and residual stresses of injection molded parts, 2011-2025
6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
• Dr. Dominik Grzesiczak Dissertation title: The influence of chemical aging and processing technology on the physical properties of selected regranulates from industrial waste, Discipline: Mechanical Engineering, Year of defense: 2024, Position: Supervisor
• Dr. Piotr Górak, PhD Title: Manufacturing method and physical and functional properties of lightweight composite aggregate. Discipline: mechanical engineering. Year of defense: 2024. Function: supervisor.
Sywester Norwiński Dissertation Title: The Effect of Filler Type and Shape on Selected Physical, Functional, and Structure Properties of Polypropylene-Based Composites Discipline: Mechanical Engineering Year of Defense: 2024 Position: Supervisor

7. International Activities (since 2015):
Participation in the TOP500 Innovation and Commercialization project of the Ministry of Science and Higher Education and spent three months on an internship program at Stanford University in California, USA.
Participation in the Invention Exhibition in Seoul, South Korea, 2020
Recipient of numerous awards and distinctions, including: King Abdulaziz University (Saudi Arabia) Award – Honorable Mention and Special Award from the Korean Patent Attorneys Association for the innovative Composite Lightweight Aggregates CLA solution – an innovative and ecological approach to waste management
Participation in international projects under the 7th Framework Programme and HORIZON 2020 projects
Participation in the international plastics trade fair K-Show in Dusseldorf, 2022
Participation in the international plastics trade fair FAKUMA Friedrichshafen, 2018 and 2020

Participation in the international recycling trade fair Plastics Recycling Show Europe in Amsterdam, 2024 and 2025

8. Other:
• Certified Project Management Specialist - Certified Project Management Associate IPMA Level D
• Knowledge of a wide range of equipment, machinery, and instrumentation used in plastics laboratories (confirmed by training certificates)
• Conducting over 120 training courses in industrial companies in the field of processing technology, quality control of plastic products, and research methods, • R&D manager for the NCBiR Fast Track project with Granulat BIS,
• Manager of over 200 industrial assignments (commissioned work, research, analyses, court opinions, innovation opinions, expert opinions, and other expert documents),
• Support for preparatory work for the expansion of the R&D center at Cellfast,
• Innovation broker at the Częstochowa University of Technology,
• Expert in the Climate Leadership program operating at UNEP Grid Warsaw (a UN agency). He was a member of the Scientific Council of the Institute of Environmental Protection – National Research Institute in Warsaw for two terms.
• Participation in an expert panel at financing entities (NCBiR, PARP, Ministry of Economy, Małopolska Center for Entrepreneurship, and others) – companies: PROSPERPLAST, Cellfast, KM System, Granulat BIS, AstenGROUP,
and others

Profiles of academic teachers teaching at the doctoral school representing the scientific discipline of Materials Engineering

1. Name:
Agata Dudek

2. Academic degrees and titles (academic discipline, year of award):
• Academic title: Professor of Engineering and Technology in the discipline of Materials Engineering, 2023.
• Academic degree: Habilitation in Technical Sciences in the discipline of Materials Engineering, 2011, Faculty of Process, Materials Engineering and Applied Physics, Częstochowa University of Technology.
• Academic degree: Doctor of Technical Sciences in the discipline of Materials Engineering, 2002, Faculty of Process, Materials Engineering and Applied Physics, Częstochowa University of Technology. The thesis received an honorable mention.

3. Main areas of research interests:
My research interests focus on modifying the structure and functional properties of engineering materials. These include, in particular, the design, fabrication, and improvement of surface layers, their processing methods, and the assessment of operational durability. My research focuses on both metallic and hybrid materials, with particular emphasis on solutions that enhance resistance to corrosion, wear, and mechanical loads. I am also interested in the use of modern surface engineering technologies, processes, and coating deposition techniques, as well as the creation of advanced composite structures with dedicated properties.

4. Major scientific publications (max. 10 items, since 2015):
• DUDEK, A.; KIERAT, O. Preliminary Aspects Regarding the Anticorrosive Effect of Multi-Layered Silane–Hydroxyapatite Coatings Deposited on Titanium Grade 2 for Medical Applications. Materials 2024, 17, 6001. doi: 10.3390/ma17236001
• KĘDZIA, O., LUBAS, M., DUDEK, A. et al.Preparation and characterization of novel foamed porous glass-ceramics on the basis of bioglass 45S5.Sci Rep 14, 30297 (2024). https://doi.org/10.1038/s41598-024-82224-x
• KUCHARCZYK-KOTLEWSKA Aleksandra, ADAMCZYK Lidia, MIECZNIKOWSKI Krzysztof, DUDEK Agata, Protective Properties of Silane Composite Coatings Modified with Poly(3,4-ethylenedioxythiophene) with Heteropolyacid on X20Cr13 and 41Cr4 Steel.Materials 2024, 17, 6177. https://doi.org/10.3390/ma17246177
• SZAJNA Ernest, TUPAJ Mirosław, MOSKAL Grzegorz, DUDEK Agata, TOMASZEWSKA Agnieszka, TRZCIONKA-SZAJNA Anna, SZYMAŃSKI Krzysztof, TRYTEK Andrzej, GALEK Tomasz, A Study of Laser-Remelted Flame-Sprayed NiCrBSi/W Composite Coatings: The Influence of Thermal Diffusivity. Journal of Thermal Analysis and Calorimetry Vol. 149, Iss. 15, https://link.springer.com/article/10.1007/s10973-024-13321-2
• SZAJNA Ernest, MOSKAL Grzegorz, TUPAJ Mirosław, DRESNER Józef, DUDEK Agata, SZYMAŃSKI Krzysztof, TOMASZEWSKA Agnieszka, TRZCIONKA-SZAJNA Anna, MIKUŚKIEWICZ Marta, ŁYSIAK Karol. The Influence of Laser Remelting on Microstructural Changes and Hardness Level of Flame-Sprayed NiCrBSi Coatings with Tungsten Carbide Addition, Surface and Coatings Technology, Vol. 478, 10.1016/j.surfcoat.2024.130403 -

5. Participation in scientific projects, including project management funded by grants (since 2015):
-

6. Supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense)
M.Sc. Eng. Agata Wrońska, "Remelting Modification of the Surface Layer of Sintered Corrosion-Resistant Steels," Defense June 15, 2015, Award of the Ph.D. Degree June 23, 2015, Materials Engineering
Grzegorz Sońta, M.Sc., "Optimization of Gear Material for the Automotive Industry in Mass Production," Defense June 30, 2016, Award of the Degree July 12, 2016, Materials Engineering M.Sc.
Michał Opydo, "Assessment of the Impact of Biomass Co-firing on the Degradation of Heat Exchanger Surfaces in Fluidized Bed Boilers," Defense October 17, 2016, Degree Awarded October 25, 2016, Materials Science
Vitalii Bezgin, M.A., "Design and Modification of an Innovative Polymer Matrix for High-Strength Composites," Defense October 12, 2020, Degree Awarded November 3, 2020, Materials Science
Barbara Lisiecka, M.A., "Constitution of the Structure and Functional Properties of the Surface Layer of Sintered Steels," Defense November 17, 2022, Degree Awarded December 8, 2022, Materials Science

7. International Activities (since 2015):

8. Other:

1. Name:
Piotr Gębara

2. Academic degrees and titles (scientific discipline, year of award):
PhD – Physical Sciences (2012);
habilitation – Physical Sciences (2019)

3. Main areas of scientific interest:
fabrication, structure, and magnetic properties of soft and hard magnetic alloys, magnetocaloric effect, magnetite nanoparticles, high-entropic alloys

4. Most important scientific publications (max. 10 items, since 2015):
1) A. Radoń, P. Włodarczyk, Ł. Hawełek, M. Kądziołka-Gaweł, P. Gębara, R. Nowosielski, R. Babilas, "Thermodynamic approach for determining the chemical composition of Fe-Co based amorphous alloys with high thermal stability and glass forming ability," Journal of Alloys and Compound, 2018, 763, pp. 141-152.
2) P. Gębara, M. Cesnek, J. Bednarcik, "Anomalous behavior of thermal expansion of α-Fe impurities in the La(Fe,Co,Si)13-based alloys modified by Mn or selected lanthanides (Ce, Pr, Ho)", Current Applied Physics 19 (2019) 188-192
3) P. Gębara, Z. Śniadecki, “Structure, magnetocaloric properties and thermodynamic modeling of enthalpies of formation of (Mn,X)-Co-Ge (X=Zr, Pd) alloys”, Journal of Alloys and Compounds, 2019, 796, pp. 153-159.
4) R. Gozdur, P. Gębara, K. Chwastek, “The influence of the DC-biased magnetic field on dynamic magnetic properties of the LaFeCoSi alloy”, Journal of Magnetism and Magnetic Materials, 2020, 500, pp. 166328.
5) P. Gębara, A. Diaz-Garcia, J.Y. Law, V. Franco, “Magnetocaloric response of binary Gd-Pd and ternary Gd-(Mn,Pd) alloys”, Journal of Magnetism and Magnetic Materials, 2020, 500, pp. 166175.
6) A. Diaz-Garcia, J.Y. Law, P. Gębara, V. Franco, “Phase Deconvolution of Multiphasic Materials by the Universal Scaling of the Magnetocaloric Effect”, JOM, 2020, 72, pp. 2845-2852.
7) P. Gębara, “Magnetocaloric effect of LaFe11.35Co0.6Si1.05 alloy”, Rare Metals, 2022, 41, 1563 8) A. Aliev, A.G. Gamzatov, N.Z. Abdulkadirova, P. Gębara, “Magnetocaloric properties of La0.9Pr0.1Fe11.2Co0.7Si1.1 compound through direct measurements under cyclic magnetic fields up to 30Hz”, International Journal of Refrigeration, 2023, 151, p. 146.
9) A. Lewińska, A. Radoń, K. Gil, D. Błoniarz, A. Ciuraszkiewicz, J. Kubacki, M. Kądziołka-Gaweł, D. Łukowiec, P. Gębara, A. Krogul-Sobczak, P. Piotrowski, O. Fijałkowska, S. Wybraniec, T. Szmatoła, A. Kolano-Burian, M. Wnuk, “Carbon-coated iron oxide nanoparticles propmote reductive stress-mediated cytotoxic autophagy in drug-induced senescent breast cancer Cells,” ACS Applied Materials & Interfaces, 2024, 16, pp. 15457.
10) A. Radoń, B. Kopyciński, A. Ciuraszkiewicz, J. Kubacki, M. Kądziołka-Gaweł, D. Łukowiec, P. Gębara, E. Langer, A. Kolano-Burian, “Reduction of electromagnetic signature by the epoxy-based nanocomposite with ferrite@ferrite nanostructure,” Composites Science and Technology, 2025, 267, 111202.

5. Participation in scientific projects, including project management funded by grants (since 2015):
1) Grant for young scientists financed from a statutory research grant at the Faculty of Production Engineering and Materials Technology, number BS/MN-203-306/2015, titled: "The Effect of Alloying Additions from the Transition Metal (Ni) and Metalloid (Ga) Groups

on the Phase Composition and Magnetic Properties of La(Fe, Si)13-Type Alloys." Project Position: Principal Investigator.
2) National Science Centre research project number 2019/03/X/ST5/00066 entitled "Two-Phase Gadolinium-Based Magnetocaloric Alloys Modified with a Transition Metal (Pd) or Selected Metalloids (Sn or Pb)" awarded for 2019-2020. Project Manager

6. Supervision and Completed PhD Theses (Scientific Discipline, Dissertation Topic, Year of Defense)
• Dissertation by Anna Kupczyk, M.A. "Structure and Thermomagnetic Properties of Amorphous and Partially Crystallized Fe70-xCoxMn10Mo5B15 (0≤x≤0.5) Alloys," supervised by Dr. DSc, Eng. Jan Świerczek, Prof. P.Cz., co-supervisor Dr. DSc, Eng. Piotr Gębara, reviewers: Prof. Dr. DSc, Eng. Grzegorz Haneczok – University of Silesia, Prof. Dr. DSc, Eng. Lidia J. Maksymowicz – AGH University of Science and Technology in Kraków. The defense took place on January 10, 2018, at the Faculty of Physics and Applied Computer Science, University of Lodz. Discipline: Physical Sciences
• Dissertation by M.Sc, Eng. Karolina Kutynia, entitled "The Effect of Partial Substitution of Mn by W, Pd, and Zr in Mn1-yXyCoGe Alloys on Their Structure and Thermomagnetic Properties," supervised by Dr. DSc, Eng. Piotr Gębara, Prof. PCz, co-supervisor Dr. Anna Przybył, reviewers: Prof. Jan Sieniawski, PhD, DSc, Eng. – Rzeszów University of Technology, Dr. Wojciech Maziarz, PhD, DSc, Eng. – IMMI PAN – Institute of Metallurgy and Materials Science of the Polish Academy of Sciences in Krakow, Dr. DSc, Eng. Jarosław Ferenc, PhD, DSc, Eng. – Warsaw University of Technology. The defense took place on January 10, 2025, at the Faculty of Production Engineering and Materials Technology of Częstochowa University of Technology. Discipline: Materials Science

7. International activity (since 2015):
1. Slovakia, Laboratory of Nanomaterials and Applications of Magnetism at the Institute of Experimental Physics of the Slovak Academy of Sciences in Košice, magnetocaloric studies of La(Fe, Si)13 alloys in high magnetic fields under the supervision of Prof. Dr. Ivan Škorvánek, November 7–21, 2011. Head of unit: Institute of Physics, Częstochowa University of Technology.
2. Slovakia, Laboratory of Nanomaterials and Applications of Magnetism at the Institute of Experimental Physics of the Slovak Academy of Sciences in Košice, magnetic studies of modified La(Fe, Si)13 alloys in high magnetic fields under the supervision of Prof. Dr. Ivan Škorvánek, April 1 - June 30, 2016. The internship was financed by the Slovak Academic Information Agency (SAIA) under the National Scholarship Program. Leading institution: Institute of Physics, Częstochowa University of Technology.
3. Spain, Department of Solid State Physics, University of Seville, magnetic studies of Gd-based alloys exhibiting the magnetocaloric phenomenon under the supervision of Prof. Dr. Victorino Franco, December 1-22, 2018. The research stay was co-financed by the University of Seville and the Rector of Częstochowa University of Technology, Prof. Dr. DSc, Eng. Norbert Sczygiol.
4. Slovakia, Laboratory of Nanomaterials and Applications of Magnetism at the Institute of Experimental Physics of the Slovak Academy of Sciences in Košice, magnetic studies of amorphous and nanocrystalline iron-based alloys and Gd-Sn alloys in strong magnetic fields. November 25–28, 2024 (research stay)

8. Other:

In 2024, I was included in the World’s TOP 2% Scientists 2023 ranking and in 2025 in the World’s TOP 2% Scientists 2024 ranking, prepared by Stanford University in collaboration

with Elsevier and SciTech Strategies, which lists the most influential scientists from around the world.

1. Name and surname:
Józef Iwaszko

2. Academic degrees and titles (scientific discipline, year of award):
• M.Sc. Eng.; discipline: Metallurgy; Year of Degree: 1992,
• PhD, Eng.; discipline: Materials Engineering; year of Degree: 1999,
• PhD, DSc, Eng.; discipline: Materials Engineering; year of Degree: 2008,
• Professor; discipline: Materials Engineering; year of Degree: 2024.

3. Main areas of research interest:
• Surface engineering: shaping the microstructure and properties of surface layers using concentrated heat sources (laser beam, plasma jet, and electric arc),
• Application of innovative FSP (Friction Stir Processing) technology in shaping the microstructure and properties of metallic and composite materials,
• Evaluation of the feasibility of processing hazardous waste, such as asbestos waste and byproducts of the biomass torrefaction process, into non-toxic products.

4. Most important scientific publications (max. 10 items, from 2015):
1) J. Iwaszko, K. Kudła, Microstructure, hardness, and wear resistance of AZ91 magnesium alloy produced by friction stir processing with air-cooling, International Journal of Advanced Manufacturing Technology, 116, 2021, 1309–1323, https://doi.org/10.1007/s00170-021-07474-9.
2) J. Iwaszko, Making asbestos-cement products safe using heat treatment, Case Studies in Construction Materials, 10, 2019, e00221, https://doi.org/10.1016/j.cscm.2019.e00221.
3) J. Iwaszko, M. Lubas, M. Sitarz, M. Zajemska, A. Nowak, Production of vitrified material from hazardous asbestos-cement waste and CRT glass cullet, Journal of Cleaner Production, 317, 2021, 128345, https://doi.org/10.1016/j.jclepro.2021.128345.
4) J. Iwaszko, New Trends in Friction Stir Processing: Rapid Cooling—A Review, Transactions of the Indian Institute of Metals, 75, 2022, 1681–1693, https://doi.org/10.1007/s12666-022-02552-2.
5) J. Iwaszko, A. Zawada, I. Przerada, M. Lubas, Structural and microstructural aspects of asbestos-cement waste vitrification, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 195, 2018, 95-102, https://doi.org/10.1016/j.saa.2018.01.053.
6) J. Iwaszko, Laser surface remelting of powder metallurgy high-speed steel, Bulletin of The Polish Academy of Sciences, Technical Sciences, 68, 6, 2020, 1425-1432, DOI:10.24425/bpasts.2020.135385.
7) J. Iwaszko, A. Zawada, M. Lubas, Influence of high-energy milling on structure and microstructure of asbestos-cement materials, Journal of Molecular Structure, 1155, 2018, 51-57, https://doi.org/10.1016/j.molstruc.2017.10.104.
8) J. Iwaszko, M. Zajemska, A. Zawada, S. Szwaja, A. Poskart, Vitrification of environmentally harmful by-products from biomass torrefaction process, Journal of Cleaner Production, 249, 2020, 119427, https://doi.org/10.1016/j.jclepro.2019.119427.
9) J. Iwaszko, M. Strzelecka, Microstructure and corrosion resistance of AZ91 magnesium alloy after surface remelting treatment, Materials, 15, 2022, 8980. https://doi.org/10.3390/ma15248980.
10) J. Iwaszko, K. Kudła, M. Lubas, "Application of Product of Vitrification of Asbestos-Cement Waste and CRT Glass Cullet as Reinforcing Phase in Surface Composites Produced by the FSP Method," Materials, 17, 2024, 5508. https://doi.org/10.3390/ma17225508.

5. Participation in research projects, including project management funded by grants (since 2015):

1) Research and development project POIR.01.01.01-00-0779/18-00 "Development of an innovative technology for manufacturing large-scale structures, including cranes, that limits deformation of welded structures, including a pilot technological line at ZUGIL S.A." The project is implemented under the Smart Growth Operational Programme (POIR) 2014-2020, call 5/1.1.1/2018 "Fast Track" for consortia and large enterprises; project implementation period 2019-2022.
2) Research and development project FENG.01.01-IP.01-A0QL/24 "Innovative process creating an environment for the implementation of robotic welding in the production of large-scale shell-and-bearing structures." European Funds for a Modern Economy Programme, Priority FENG.01, Support for entrepreneurs, Measure FENG.01.01, SMART Track; project implementation period 2025-2027.

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
• Discipline: Materials Science; dissertation topic: Shaping the structure and properties of the surface layer of the AZ91 magnesium alloy; year of defense: 2014
• Discipline: Materials Science; dissertation topic: Modification of amorphous-crystalline aluminosilicate materials through the selection of raw materials and technological parameters; year of defense: 2016
• Discipline: Materials Science; dissertation topic: Structure and properties of aluminosilicate ceramic materials modified with CRT cullet Defense year: 2024.

7. International activity (since 2015):
Collaboration with Azerbaijan Shahid Madani University in Tabriz, Iran, resulting in the development of a scientific article:
J. Iwaszko, M. Sajed, Technological Aspects of Producing Surface Composites by Friction Stir Processing—A Review, Journal of Composites Science, 2021, 5(12), 323, https://doi.org/10.3390/jcs5120323.

8. Other:
• Patents and patent applications:
1) J. Iwaszko, K. Kudła, Method for modifying the surface layer of metallic materials. PAT.230589. Application No. 419653 dated December 1, 2016. Published November 30, 2018, Patent Office Publishing House 11/18,
2) J. Iwaszko, K. Kudła, Method for modifying the surface layer of metallic materials. PAT.228010. Application No. 416112 dated February 11, 2016. Published February 28, 2018, Patent Office Publishing House 02/18,
3) K. Kudła, J. Iwaszko, Method for modifying the surface layer of materials exhibiting a strong affinity for oxygen. PAT.227006. Application No. 409150 dated August 11, 2014. Published October 31, 2017, Patent Office Publishing House 10/17,
4) J. Iwaszko, K. Kudła, M. Strzelecka, Welding assembly for modifying the surface layer of materials. PAT.226579. Application no. 412886 dated June 26, 2015. Published August 31, 2017, Patent Office Publishing House 08/17,
5) K. Kudła, J. Iwaszko, Welding assembly for modifying the surface layer of materials. PAT.214653. Application no. 385708 dated July 21, 2008. Published August 30, 2013, Patent Office Publishing House 08/13,
6) K. Kudła, J. Iwaszko, M. Szafarska, Welding assembly for modifying the surface layer of materials. PAT.218340. Application no. 394414 dated April 1, 2011. Published November 28, 2014, Patent Office Publishing House 11/14,
7) Patent application: J. Iwaszko, M. Zajemska, Composite floorboard, PAT-24/30/10/14 (2014).

• For my scientific, research, organizational, and teaching activities, I have received 24 awards from the Rector of the Częstochowa University of Technology. Ten of the Rector's awards were individual awards.
• For my inventive and innovation achievements, I have received eight Diplomas from the Minister of Science and Higher Education and 18 awards at international invention competitions – both domestic and foreign.

1. Name and surname:
Sylwia Wencel (Wiewiórowska)

2. Academic degrees and titles (scientific discipline, year of award):
Dr. Hab. Eng., Materials Engineering, 2012.

3. Main areas of scientific interest:
My primary research activities in the field of technical sciences, the field of technical sciences, and the discipline of materials engineering include: issues related to modern plastic working processes of metal products, such as drawing, rolling, and extrusion, as well as the processes of modeling and obtaining modern grades of steel from the AHSS group. The scope of my research activities also includes the creation, modeling, and implementation of modern technologies for the production of wires and fasteners.

4. Most important scientific publications (max. 10 items, since 2015):
1. Gontarz A., Drozdowski K., Michalczyk J., Wiewiórowska S., Pater Z., Tomczak J., Samołyk G., Winiarski G., Surdacki P.: Forging of Mg-Al-Zn Magnesium Alloys on Screw Press and Forging Hammer; Materials 2021, 14, 32. https://dx.doi.org/10.3390/ma14010032.
2. Wencel Z., Wiewiórowska S., Wieczorek P., Michalczyk J., Gontarz A.: Evaluation of the impact of electron beam welding parameters on the mechanical properties and microstructure of the resulting joint for 39CrMoV13 and M50NiL steel grades. Archives of Civil and Mechanical Engineering (2022) 22:200. https://doi.org/10.1007/s43452-022-00512-7.
3. Surdacki P., Gontarz A., Winiarski G., Ł. Wójcik, Wiewiórowska S.: Research of Speed Parameters of the Ring Rolling Process. Advances in Science and Technology Research Journal 2022, 16(6), 251–257. https://doi.org/10.12913/22998624/156816.
4. Wiewiórowska S., Siemiński M., Tomasz Śleboda, Łukaszek-Sołek A., Dyl T., Koczurkiewicz B.: Determination of Two-Stage Heat Treatment Parameters in Industrial Conditions in Order to Obtain a TRIP Structure in Low-Alloy Carbon Steel Wires; Materials 2022, 15, 8965. https://doi.org/10.3390/ma15248965.
5. Wencel, Z.; Wiewiórowska, S.; Wieczorek, P.; Gontarz, A. Electron Beam Welding Process for Ti6Al-4V Titanium Alloy. Materials 2023, 16, 5174. https://doi.org/10.3390/ma16145174.
6. Michalczyk J., Gontarz A., Wiewiórowska S., Winiarski G. Mandrel-Free Bending of Tubes with Small Radii – A Theoretical and Experimental Study. Advances in Science and Technology Research Journal 2023, 17(4), 189–205. https://doi.org/10.12913/22998624/169883.
7. Bak, M.; Wencel, S.; Wieczorek, P. Characteristics of the Side Surfaces and Edges of Welded Wire Meshes Used in the Construction of Welded Slotted Screens. Materials 2023, 16, 6701. https://doi.org/10.3390/ ma16206701.
8. Winiarski, G.; Gontarz, A.; Skrzat, A.; Wójcik, M.;Wencel, S. Analysis of a New Process for Forming Two Flanges Simultaneously in a Hollow Part by Extrusion with Two Moving Dies. Metals 2024, 14, 612. https://doi.org/10.3390/ met14060612.
9. Smak, K.; Szablewski, P.; Legutko, S.; Petru, J.; Kratochwil, J.; Wencel, S. Evaluation of the Influence of the Tool Set Overhang on the Tool Wear and Surface Quality in the Process of Finish Turning of the Inconel 718 Alloy. Materials 2024, 17, 4465. https://doi.org/10.3390/ ma17184465.
10. Włoch K, Wencel S., Wieczorek P., Szablewski P.: Assessment of the Potential Application of Medium-Carbon Steels Subjected to the Process of Surface Induction Hardening for Constant Velocity Joint Components. Advances in Science and Technology Research Journal, 2025, 19(6), 362–372. https://doi.org/10.12913/22998624/202961.

5. Participation in research projects, including project management funded by grants (since 2015):
1. Research project financed by the National Centre for Research and Development (NCBiR) under the Innotech program, In-tech program track, entitled: "Development of innovative technology and launch of production of steel wire rod with a carbon content of 0.1-0.4% with the TRIP effect, and implementation of a new generation of TRIP steel wire drawing technology for products manufactured in the drawing and metal products industries." Location: Częstochowa University of Technology. Implementation period: 2013-2015. Form of participation: contractor.
2. Research project financed by the National Centre for Research and Development (NCBiR) under the international program Polish-Norwegian Research Cooperation, under the Small Grants Fund. Small Grant Scheme for research projects carried out by women in technical sciences, titled: "Investigations of wire drawing processes and determining the areas of application of innovative drawn products made from TRIP steel." Location: Częstochowa University of Technology. Implementation period: 2014-2016. Form of participation: project manager.
3. Research project no. POIR.01.01.01-00-0033/15 financed by the National Centre for Research and Development under Competition 1/1.1.1/2015, 1.1 "R&D projects of enterprises," Sub-measure 1.1.1 "Industrial research and development work carried out by enterprises," titled: "Development of an innovative technology for the production of fasteners with special MTT (Multiple Thread Technology) threads using multi-scale modeling, based on multi-phase steel." Location: Gaweł Zakład Produkcji Śrub S.A. Implementation period: 2015-2017. Form of participation: member of key R&D staff.
4. Research project no. POIR.04.01.02-00-0042/17 financed by the National Centre for Research and Development under Competition 1/4.1.2/2017, Priority IV: Increasing scientific and research potential, Measure: 4.1 "Scientific research and development work", Sub-measure 4.1.2 "Regional scientific and research agendas", entitled: "Development of technology and launch of production of nickel-plated welding wires with increased corrosion resistance." Location: Częstochowa University of Technology/Metalurgia S.A. Radomsko. Implementation period: 2018-2021. Form of participation: R&D manager.
5. Research project no. POIR.04.01.04-00-0001/18, financed by the National Centre for Research and Development under Competition 1/4.1.4/2018 Priority IV: Increasing scientific and research potential Measure: 4.1 "Scientific research and development work" Sub-measure 4.1.4 "Application projects", titled: "Development of innovative technology and launch of production of a wide range of wires and fasteners made of steel with the TRIP effect." Place of implementation: Paweł Klimas PPHU Klimas/Częstochowa University of Technology/Metalurgia S.A. Radomsko. Implementation period: 2019-2021. Form of participation: R&D manager.
6. Research project no. POIR.01.01.01-00-0481/18, financed by the National Centre for Research and Development under Competition 2/1.1.1/2018, 1.1 "R&D projects of enterprises," Sub-measure 1.1.1 "Industrial research and development work carried out by enterprises," entitled: "Development of production technology for innovative bimetal self-drilling screws made of stainless steel and carbon steel for specialized applications." Place of implementation: Wkręt-Met Sp. z o.o., sp. kom. Implementation period: 2019-2021. Form of participation: R&D manager.
7. Research project no. POIR.01.01.01-00-0059/20 financed by the National Centre for Research and Development under Competition 1/1.1.1/2020, 1.1 "R&D projects of enterprises", Sub-measure 1.1.1 "Industrial research and development work carried out by enterprises", entitled: "Innovative product in the form of steel and aluminum alloy forms with narrowed dimensional and burr size tolerances cut on a single technological line".

Place of implementation: ArcelorMittal Distribution Solutions Poland Spółka z o.o. Implementation period: 2020-2023. Form of participation: R&D manager on the subcontractor's side.
8. Research project no. POIR.04.01.04-00-0001/18, financed by the National Centre for Research and Development under Competition 6/1.1.1/2020 "R&D Projects of Enterprises," Sub-Measure 1.1.1 "Industrial Research and Development Works Carried Out by Enterprises," entitled: "Innovative, Reusable Mounting Anchors for Concrete with Enhanced Mechanical and Operational Properties." Location: Wkręt-Met Sp. z o.o./Częstochowa University of Technology. Implementation period: 2021-2023. Form of participation: R&D Manager.

6. Supervisor supervision and completed doctoral dissertations (scientific discipline, dissertation topic, year of defense)
1. Supervisor supervision of a completed doctoral dissertation.
Scientific discipline: Materials Science. Dissertation topic: The influence of drawing process parameters on the amount of retained austenite transformed into martensite and on the properties of wires made of TRIP steel with 0.4% C content. Year of defense: 2019.
2. Supervision of an implementation doctorate. Scientific discipline: Materials Science. Dissertation topic: The use of low-alloy medium-carbon steels for induction hardening in the production of internal components of constant velocity joints as an alternative to components made of low-carbon steels for carburization. Planned defense year: 2027.
3. Supervision of an implementation doctorate: Shaping the properties of stainless steel profile wires from the ferritic and duplex steel groups by plastic working and inter-operational plasma annealing in the production of resistance-welded slotted screens. Planned defense year: 2026.

7. International activity (since 2015):
Appointed in 2023 for a 6-year term as a member of the European Commission's Expert Group on Steel 4 (TGA4) "Steel Applications and Solutions for Existing and New Markets" working group within the RFCS program.
Expert assessor of grant applications within the European Commission, the RFCS program, the EIC Accelerator (STEP 1) program, and the HORIZON MSCA Postdoctoral Fellowships program.
Expert assessor of grant applications at the Research & Innovation Foundation in Cyprus in the OPEN INFRA and CODEVELOP-REPowerEU programs.
Expert assessor of grant applications at the Innovation Foundation of Montenegro.

8. Other:
Expert assessing grant applications in national structures at:
National Centre for Research and Development (FENG, Leader),
Polish Agency for Enterprise Development (FENG, FEPW),
Foundation for Polish Science,
Information Processing Center.
Expert at the Ministry of Development Funds and Regional Policy in the field of the STEP (We'll Check Your Experimental Idea) instrument and Innovation Coach in the Coach of Innovation instrument.
Member of the Board of the Academic-Economic Association of Metallurgy.

1. Name and surname:
Adam Cwudziński

2. Academic degrees and titles (scientific discipline, year of award):
DSc in the area of technical science and metallurgy field, 19 maja 2015

3. Main areas of scientific interest:
metals alloys extractive metallurgy, fluid mechanics, numerical methods.

4. The most important scientific publications (max. 10 items, since 2015):

- A. Cwudziński, Influence of Flow Control Devices on Mixing Phenomena in the Ladle with Top Lance Stirring System—Numerical and Physical Modeling, Materials, 17, 24, 2024
- A. Cwudziński, J. Pieprzyca, T. Merder, Numerical and Physical Modeling of Liquid Steel Asymmetric Behavior during Non-Isothermal Conditions in a Two-Strand Slab Tundish—"Butterfly Effect", Materials, 16, 21, 2023
- H. Suchan, A. Cwudziński, Influence of Multihole Ladle Shroud Construction on the Liquid Steel Flow in the One-Strand Tundish during CSC Process, Archives of Metallurgy and Materials, 67, 3, 1151-1160, 2022
- A. Cwudziński, B. Gajda, Particle Image Velocimetry Method for Prediction Hydrodynamic Conditions during Leaching Process on the Basis of Sn-NaOH System, Materials, 14, 3, 2021
- A. Cwudziński, J. Jowsa, B. Gajda, A. Hutny, Physical Modelling of Fluids' Interaction During Liquid Steel Alloying by Pulse-Step Method in the Continuous Casting Slab Tundish, Ironmaking and Steelmaking, 47, 10, 1188-1198
- A. Cwudziński, J. Jowsa, B. Gajda, Physical Simulations of Macromixing Conditions in One-Strand Tundish during Unsteady Period of Continuous Slab Casting Sequence, Steel Research International, 91, 8, 2020
- M. Bartosiewicz, A. Cwudziński, Influence of Multi-Hole Filter Modification on the Flow Hydrodynamic Structure and Refining Process of Liquid Steel in the One-Strand Tundish, Archives of Metallurgy and Materials, 64, 1, 71-78, 2019
- A. Cwudziński, Physical and Mathematical Modeling of Bubbles Plume Behaviour in One Strand Tundish, Metallurgical Research & Technology, 115, 1, 2018
- A. Cwudziński, Numerical and Physical Modeling of Liquid Steel Flow Structure for One Strand Tundish with Modern System of Argon Injection, Steel Research International, 88, 9, 2017
- A. Cwudziński, Influence of Hydrodynamic Structure on Mixing Time of Alloy Additions With Liquid Steel in One Strand Tundish, Archives of Metallurgy and Materials, 61, 1, 295-300, 2016

5. Participation in research projects, including project management funded by grants (since 2015):

- Principal investigator: PROM - Short-term Academic Exchange - BPI/PRO/2025/1/00037, Polish National Agency for Academic Exchange, 2025
- Principal investigator: Low-waste technology inhibiting the mechanism of slag phase transfer to the volume of liquid steel in the continuous casting process, Ministry of Science and Higher Education, 2014-2028
- Principal investigator: Alloying of dynamic continuous medium flowed through high-temperature reactor - 2016/23/B/ST8/01135, National Science Centre, 2017-2019
- Principal investigator: Interaction of two-phase system liquid-gas in the continuous casting tundish - IP2014 006973, Ministry of Science and Higher Education, 2014-2028, 2015-2016

6. Supervisor's supervision and completed doctorates (scientific discipline, dissertation topic, year of defense):

- Selection of the shroud design for ladle used during continuous steel casting process - Michał Bartosiewicz, 2020.
- The role of tundish feed stream hydrodynamics on continuous phases interactivity – Hanna Suchan, 2024

7. International activity (since 2015):

- Research stay at Institute of Metallurgy Technical University of Kosice, Programme Zawacka – Polish National Agency for Academic Exchange – 10/11.2024
- Research stay at High Steel Centre North China University of Technology – Programme PROM – Polish National Agency for Academic Exchange – 11/12.2025
- Journals reviewer: Metallurgical and Materials Transaction B, JOM, Steel Research International, Ironmaking and Steelmaking, Metallurgical Research & Technology, Journal of Materials Research and Technology, Canadian Metallurgical Quarterly, Journal of Iron and Steel Research International.
- Scientific member board of STEELSIM conference ed. 2017 and 2025.

8. Other:

- A. Cwudziński, Tundish, Patent PL 241 354 B1, Patent Office of the Republic of Poland, 2022
- A. Cwudziński, Subflux flow controller, Patent PL 246309 B1, Patent Office of the Republic of Poland, 2024
- A. Cwudziński, Ladle shroud for steelmaking ladle, Patent PL 246160 B1, Patent Office of the Republic of Poland, 2024
- A. Cwudziński, Tundish, Patent PL 247643 B1, Patent Office of the Republic of Poland, 2025
- A. Cwudziński, Ladle shroud, Patent PL 246980 B1, Patent Office of the Republic of Poland, 2025

Profiles of academic teachers teaching at the doctoral school, representing the scientific discipline of Automation, Electronics, Electrical Engineering, and Space Technologies

1. Name and surname: Krzysztof Chwastek

2. Academic degrees and titles (academic discipline, year of award):
Dr. Hab. (Electrical Engineering, 2013),
Ph.D. (Electrical Engineering, 2007)

3. Main areas of research interest:
Soft and hard magnetic materials, mathematical description of magnetization curves 4

. Most important scientific publications (max. 10 items, since 2015):
1. Krzysztof Chwastek, Radosław Jastrzębski, Anna Przybył, Piotr Gębara, Monika Gębara, Roman Gozdur, Ajay Pal Singh Baghel, Boggavarapu Sai Ram, "The effect of DC bias on the magnetization curves described with the T(x) model," Physica B 714 (2025), 417378
2. Krzysztof Chwastek, Mariusz Najgebauer, Branko Koprivica, Marko Rosić, "The features of two approaches to describe magnetic anisotropy in non-grain-oriented electrical steels," COMPEL 44(3) (2025), 314
3. Boggavarapu Sai Ram, Ajay Pal Singh Baghel, Krzysztof Chwastek, Shrikrishna V. Kulkarni, Laurent Daniel, Marcos Flavio de Campos, Nlebedim Ikenna Cajetan, Modeling of Angular Behavior of Core Loss in Grain-Oriented Laminations Using the Loss Separation Approach, Journal of Superconductivity and Novel Magnetism 38 (2025), 49
4. Krzysztof Chwastek, Piotr Gębara, Anna Przybył, Roman Gozdur, Ajay PS Baghel, Boggavarapu Sai Ram, An alternative formulation of the Harrison model, Applied Sciences 13 (2023), 12009
5. Krzysztof Chwastek, Paweł Jabłoński, Dariusz Kusiak, Tomasz Szczegielniak, Vaclav Kotlan, Pavel Karban, The effective field in the T(x) hysteresis model, Energies 16 (5) (2023), 2237
6. Anna Przybył, Piotr Gębara, Roman Gozdur, Krzysztof Chwastek, Modeling of magnetic properties of rare-earth hard magnets, Energies 15 (21) (2023), 7951
7. Krzysztof Chwastek, The effects of sheet thickness and excitation frequency on hysteresis loops of non-oriented electrical steel, Sensors 20 (22) (2022), 7873
8. Mateus Dias, Fernando Landgraf, Krzysztof Chwastek, Modeling the Effect of Compressive Stress on Hysteresis Loop of Grain-Oriented Electrical Steel, Energies 15 (3) (2022), 1128
9. Roman Gozdur, Piotr Gębara, Krzysztof Chwastek, A Study of Temperature-Dependent Hysteresis Curves for a Magnetocaloric Composite Based on La(Fe, Mn, Si)13-H Type Alloys, Energies 13 (6) (2020), 1491
10. K. Chwastek, A.P.S. Baghel, B. Sai Ram, B. Borowik, Laurent Daniel, S.V. Kulkarni, "On some approaches to model reversible magnetization processes," Journal of Physics D: Applied Physics 51 (14) (2018), 145003

5. Participation in scientific projects, including project management funded by grants (since 2015):
none

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
1. Artur Cywiński, "Optimization of the spatial distribution of multi-beam cable lines to minimize energy losses," September 28, 2020, Faculty of Electrical Engineering, CUT
2. Radosław Jastrzębski, "Application of the GRUCAD model in describing the magnetic properties of composite cores," July 14, 2020, Faculty of Electrical Engineering, CUT

7. International activity (since 2015):
Informal collaboration with scientists from the following foreign research centers:
- Dnepropetrovsk National University, Dnipro, Ukraine

- RWTH Aachen University, Germany - Indian Institute of Technology Bombay, Mumbai, India
- Universidade Federal Fluminense, Volta Redonda, Brazil
- Group of Electrical Engineering-Paris (GeePs), Univ Paris-Sud, France
- University of Kragujevac, Čačak, Serbia
- Lviv Polytechnic National University, Lviv, Ukraine
- J.J. Strossmayer University of Osijek, Osijek, Croatia
- University of Sao Paulo, Sao Paulo, Brazil
- University of West Bohemia, Pilsen, Czech Republic
- Ames Laboratory, Ames, Iowa, USA

Research internship at the Faculty of Technical Sciences in Čačak, University of Kragujevac, Serbia, May 29, 2023-June 28, 2023
Research internship at the Faculty of Electrical Engineering, University of West Bohemia in Pilsen, Czech Republic, June 1, 2022-August 31, 2022
Review of the research project "Towards multi-scale modeling of magnetoelastic and magnetocaloric phenomena" for the Czech Science Foundation (GAČR – equivalent to the Polish National Science Centre), 2020
Invited lecture "The advantages and drawbacks of the Jiles-Atherton model" presented at the 10th International Conference on Electrical, Electronics and Computing Engineering – IcETRAN 2023, East Sarajevo, Bosnia and Hercegovina
Two-part invited paper "Fundamentals on magnetism for science and engineering" presented to the audience of the 2nd Colombian School on Magnetism and Magnetic Materials, December 3-6, 2019, Bogota, Colombia

8. Other:

Since 2020, Professor Chwastek has been included in the list of the world's top 2% most influential scientists, compiled by Stanford University (both for his overall scientific achievements and for individual years).
Recipient of the 2021 Silesian Science Award

1. Name and surname:
Artur Durajski

2. Academic degrees and titles (scientific discipline, year of award):
- Habilitation / field of exact and natural sciences / discipline: physical sciences / 2019
- Ph.D. / field of physical sciences / discipline: physical sciences / 2014

3. Main areas of scientific interest:
condensed matter physics, superconductivity, 2D materials, anode materials, ion batteries.

3. Most important scientific publications (max. 10 items, since 2015):
- High-temperature superconductivity in Th-B-H systems via nonclathrate design, Phys. Rev. B 112, 054513 (2025)
- Designing lithophilic interfaces for robust anode-free lithium metal batteries, Nano Lett. 25, 10970-10976, (2025)
- High-temperature ternary superhydrides: A strategic roadmap to optimal superconducting parameters, Adv. Funct. Material. 35, 2423680 (2025)
- Prediction of p-block-based ternary superconductors XC2H8 at low pressure, npj Comput. Material. 10, 289 (2024)
- Superconductivity in Ce-B-H system at high pressure, J. Mater. Chem. C 12, 16881–16887 (2024)
- Investigation of N3C5 and B3C5 bilayers as anode materials for Li-ion batteries by first-principles calculations, Sci. Rep. 14, 11180 (2024)
- Critical temperature of the nonadiabatic superconducting state in mono- and bilayer systems, Phys. Rev. B 108, 054512 (2023)
- Computational insight into bilayer NC7 anode material for Li/Na/Mg-ion batteries, Comput. Material. Sci. 225, 112194 (2023).
- New superconducting superhydride LaC2 H8 at relatively low stabilization pressure, Phys. Chem. Chem. Phys. 23, 25070 (2021).
- Isotope effect in superconducting lanthanum hydride under high compression, Phys. Rev. B 101, 214501 (2020)

4. Participation in research projects, including project management, financed by grants (since 2015):
- National Science Centre (NCN): OPUS 24 - 2022/47/B/ST3/00622. Implementation period: 2023-2027. Position: Project Manager
- National Science Centre (NCN): OPUS 26 – 2023/51/B/ST8/01624. Implementation period: 2024-2026. Position: Performer

5. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense)
- Discipline: Materials Science / Title: Stability and Degradation of Two-Dimensional Anode Materials Based on Modified Graphene / Year of defense: 2025
- Discipline: Physical Sciences / Title: Analysis of the Electron-Phonon Structure and Thermodynamic Properties of Selected Two-Dimensional Superconductors / Year of defense: 2024
- Discipline: Physical Sciences / Title: First-Principles Description of the Hydrogen Molecule: Dynamical and Statistical Properties and Interaction with the Environment / Year of defense: 2023

6. International activity (since 2015):
- Collaboration with, among others, the following centers: Deakin University, Australia / Royal Melbourne Institute of Technology, Australia / Jiangsu Normal University, China / Jilin University, China

8. Other: ----------

1. Name and surname:
Sławomir Gryś

2. Academic degrees and titles (scientific discipline, year of award):

Dr. Hab. Computer Science 2013,
Dr. Electrical Engineering 2003.

3. Main areas of scientific interest:

application of infrared thermography in non-destructive testing, metrology of non-electrical quantities, automotive electronics

4. Major scientific publications (max. 10 items, since 2015):
• Gryś S.: (2024) "Computer Arithmetic in Practice. Exercises and Programming," CRC Press/Taylor and Francis Group, Bota Raton, ISBN 978-1-032-42565-8 (300 points).
• Jabłoński, P.; Kasprzak, T.; Gryś, S.; Minkina, W: (2025) Theoretical Approaches to the Heating of an Extensive Homogeneous Plate with Convective Cooling.Energies 2025, 18, 4785. https://doi.org/10.3390/en18174785 (140 pts).
• Minkina W. Gryś, S.: (2024) “Thermographic Measurements in Electrical Power Engineering—Open Discussion on How to Interpret the Results”, Appl. Sci. 2024, 14, 4920, https://doi.org/10.3390/app14114920 (100 points).
• Gryś S., Minkina W.: (2023) “Discretization Method of Continuous-Time Dynamic Linear Model”, Intl. Journal Of Electronics And Telecommunications, 2023, vol. 69, no. 2, pp. 281-286, doi: 10.24425/ijet.2023.144362 (70 pts).
• Gryś S.: (2022) “An Experimental Bench for Testing a S-CAM Front Car Camera”, Intl. Journal Of Electronics And Telecommunications, 2022, vol. 68, no. 4, pp. 755-760, doi: 10.24425/ijet.2022.143882 (70 points).
• Gryś S., Minkina W.: (2022) “Noninvasive Methods of Active Thermographic Investigation: Short Overview of Theoretical Foundations with an Example of Application”, Energies, 2022, Vol. 15, 4865, pp. 1-22. Submitted to the Special Issue "Selected Papers from the 54th Inter-University Metrology Conference" 2022.09.21-23 LIV MKM, Kielce-Masłów, https://www.mdpi.com/1996-1073/15/13/4865, https://doi.org/10.3390/en15134865 (140 points).
• Gryś S., Dudzik S.: (2022) “Investigation on dual-domain data processing algorithm used in thermal non-destructive evaluation” QIRT Journal 19 (3), p. 196-219. https://doi.org/10.1080/17686733.2020.1841443 (140 points).
• Gryś S., Najgebauer M.: (2021) “An attempt of accurate assessment of the hysteresis loop and power loss in magnetic materials during control measurements” Measurement 174 (2021) 108962, https://doi.org/10.1016/j.measurement.2021.108962 (200 points)
• Gryś S.: (2018) "Determining the dimension of subsurface defects by active infrared thermography – experimental research" J. Sens. Sense. Syst., 7, p. 153–160, 2018 (40 points)
• Gryś S., Minkina W., Vokorokos L: (2015) "Automated characterization of subsurface defects by active IR thermographic testing - Discussion of step heating duration and defect depth determination" Infrared Physics & Technology 68 (2015), p. 84–91. ISSN: 1350-4495 (IF(2013)=1.460, List A of the Ministry of Science and Higher Education – 25 points)

5. Participation in research projects, including project management funded by grants (since 2015):
• Research project entitled: "Standardization of the procedure for sizing defects using active infrared thermography," application no. PM-II/SP/0003/2024/02, financed by the "Polish Metrology II" program, Project Manager.
• Research project entitled: "Rainwater storage and treatment system for photovoltaic farms," application no. HYDROSTRATEG-II/0001/2023, financed under the second call for proposals – the

Government Strategic Program HYDROSTRATEG "Innovations for Water Management and Inland Navigation," Project Manager.

6. Supervision and completed doctorates (scientific discipline, dissertation topic, year of defense):
Artur Maciąg, Electrical Engineering, "Standardization of methods for measuring the efficiency of second-harmonic light wave generation interacting with optically nonlinear materials," 2020.

7. International activities (since 2015):
• Germany, 4-week research internship at the Technical University of Dresden, 2023.
• Czech Republic, 6-week research internship at VŠB - Technicka Universita Ostrava, 2022.
• Czech Republic, lectures at VŠB - Technicka Universita Ostrava as part of the ERASMUS+ program in 2018.
• Romania, lectures at Universitatea "1 Decembrie 1918" Alba Iulia as part of the ERASMUS program in 2015. • Israel, study visit to Ariel University. 2015.

8. Other:
• Vice-Chairman of the Metrology Commission of the Polish Academy of Sciences (PAN) Katowice Branch since 2019.
• Member of the POLSPAR Management Board for the 2023-2025 term.
• Vice-Chairman of the Częstochowa Branch of PTETIS – since 2021.
• Member of the Metrology Advisory Board, Cambridge Scholars Publishing since 2018.
• Member of the NDT Editorial Advisory Board since 2023.
• Member of the IJET Editorial Advisory Board since 2020.
• Chairman of the Scientific Committee of the LII Interuniversity Conference of Metrologists MKM’2020.
• Chairman of the Organizing Committee of the XLIX Interuniversity Conference of Metrologists MKM’2017.
• Member of the Scientific Committee of the SP’2024 Measurement Systems Conference.
• Member of the Scientific Committee of the Problems and Progress in Metrology PPM’2024 Conference.
• Member of the Scientific Committee of the "21st Century Engineer" organized annually by the ATH in Bielsko-Biała – from 2014 to the present.
• Member of the Scientific Committee of the Inter-University Conference of Metrologists MKM – from 2015 to the present.
• Expert of the Slovak Research and Development Agency.
• Expert of the National Centre for Research and Development.
• Expert of the National Science Centre. • Expert of the Data Processing Centre.
• Scientist of the Future Award 2024 - Smart Growth Forum Foundation - Gdańsk, June 20, 2024.
• Honorable Mention in the 3rd edition of the Professor Bogdan Skalmierski Silver Violin Award 2023.

Resolution No. 295/2018/2019
of the Senate of Częstochowa University of Technology of June 26, 2019

regarding: the adoption of the Regulations of the Doctoral School of Częstochowa University of Technology

1. The Senate of Częstochowa University of Technology, pursuant to Article 292 of the Act of July 3, 2018, Provisions introducing the Act - Law on Higher Education and Science (Journal of Laws of 2018, item 1669, as amended), in conjunction with Article 205, paragraph 2 of the Act of July 20, 2018, - Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended), adopted the Regulations of the Doctoral School of Częstochowa University of Technology in an open vote, in accordance with the Annex to this Resolution.

2. This resolution comes into force on the date of its adoption, with effect from 1 October 2019.

Rector

Appendix
to the Resolution No. 295/2018/2019 of the Senate of Częstochowa University of Technology

of June 26, 2019

Doctoral School Regulations
Czestochowa University of Technology

§ 1. [Scope of the Regulations]

The Doctoral School Regulations define the organization of education at the Doctoral School in matters not regulated by the Act and the Statute, in particular:
1. the manner of operation of the Doctoral School;
2. the scope of responsibilities of the Head of the Doctoral School;
3. the scope of rights and obligations of the Doctoral Student;
4. the procedure for conducting the mid-term evaluation;
5. the procedure for appointing and changing the supervisor, supervisors, or auxiliary supervisor;
6. the conditions for extending the deadline for submitting a doctoral dissertation;
7. the procedure for documenting the course of education;
8. the principles for awarding doctoral scholarships.

§ 2. [Definitions]

The terms used in these Regulations mean:
1. doctoral student – a doctoral student studying at the Doctoral School;
2. IRP – individual research plan;
3. Head of Department – the head of the doctoral school;
4. Supervisor – the supervisor or supervisors if more than one supervisor is appointed;
5. Scientific Discipline Council – the council responsible for the discipline within which education is provided at the doctoral school;
6. Council – the scientific council of the doctoral school;
7. Regulations – these regulations;
8. Statute – the Statute of the Czestochowa University of Technology;
9. Detailed Recruitment Rules – adopted by the resolution of the Senate of the Czestochowa University of Technology on the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology;
10. Doctoral School – the doctoral school of the Czestochowa University of Technology for which these regulations have been adopted;
11. University or PCz – Czestochowa University of Technology; 12. Act – Act of July 20, 2018 – Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended).

§ 3. [General Provisions]

1. Doctoral education prepares students for the award of a doctoral degree.
2. No fees are charged for doctoral education at the doctoral school.
3. The academic year at the doctoral school runs from October 1 to September 30 and is divided into two semesters.
4. All decisions concerning doctoral students whose supervisor is the head of the doctoral school are made by the Vice-Rector for Research.
5. The doctoral school does not conduct teaching or research independently.
6. The direct supervisor of the doctoral student is the head of the discipline in which the doctoral student is studying at the doctoral school.
7. If doctoral education in a given discipline is discontinued, the University shall provide doctoral students preparing a doctoral dissertation in that discipline with the opportunity to continue their education at another doctoral school in that discipline.

8. If there is no doctoral school offering education in a given discipline, the Czestochowa University of Technology shall cover the costs of the proceedings for the award of a doctoral degree extramurally for those who have lost the opportunity to complete their education.

§ 4. [Establishment and Organization of the Doctoral School]

1. The doctoral school is established pursuant to a decree of the Rector.
2. The doctoral school provides education in the disciplines in which the University is authorized to award doctoral degrees.
3. The Rector, after consulting the appropriate body of the doctoral student self-government, appoints a director who reports directly to the Vice-Rector for Research for the ongoing management of the doctoral school. The director represents one of the disciplines in which education is provided at the doctoral school.
4. The Rector appoints the Doctoral School's Scientific Council, which serves as a consultative body for the Head of the Doctoral School.
5. The Doctoral School has an administrative office ensuring its operation in the main building of the Czestochowa University of Technology.

§ 5. [Head of the Doctoral School]

1. The Head of the Doctoral School:
1) supervises the overall operation of the Doctoral School, including the correctness and quality of the educational process, academic supervision, and the procedure for conducting the mid-term evaluation;
2) performs organizational and administrative functions within the Doctoral School;
3) makes decisions on all matters concerning the Doctoral School and doctoral students studying at the Doctoral School, not reserved for the competence of the governing bodies and persons holding managerial positions at the University;
4) submits proposals to the appropriate individual and collegial bodies of the University on all matters concerning the Doctoral School;
5) Performs other activities as required by law, the University's Statute, and resolutions and orders of the University's governing bodies;
6) Makes decisions regarding the assets and financial management of the Doctoral School within the scope determined by the Rector within the scope of the power of attorney granted;
7) Considers doctoral students' concerns in all matters concerning the Doctoral School, not reserved for the authority of governing bodies or other persons holding managerial positions at the University;
8) Issues administrative decisions in individual cases concerning candidates and doctoral students, including denial of admission to the Doctoral School, removal from the list of doctoral students, and in cases regulated in these regulations or in separate provisions;
9) Prepares a draft of the terms and conditions of admission to the Doctoral School and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;
10) Prepares a draft curriculum and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;
11) Appoints a doctoral student's supervisor or supervisors after the Doctoral School Scientific Council has assessed the candidacy;
12) Collaborates with the heads of the scientific disciplines in which education is offered at the doctoral school or with persons designated by them, in the following areas:
a) Ensures conditions for conducting education at the doctoral school, including professional internships in the form of teaching or participating in teaching, for a maximum of 60 teaching hours per year;
b) Ensures conditions for conducting research by doctoral students;

c) Enables doctoral students to undertake internships and conduct research at scientific institutions outside the University, including supporting grant-based activities and the domestic and international mobility of doctoral students;
d) Develops a draft doctoral school curriculum, including a professional internship program;
e) Collaborates with the socio-economic environment in the field of doctoral education;
f) Determines the staffing of classes within the curriculum;
14) Makes decisions on extending the deadline for submitting doctoral dissertations specified in the IRP;
15) Collaborates with the University's doctoral student council;
16) supervises the correct, reliable, and timely entry, updating, archiving, and deletion of data concerning the doctoral school in the Integrated Information System on Science and Higher Education "POL-on";
17) supervises the collection of documentation on the course of study;
18) supervises the preparation of materials for the evaluation of the doctoral school;
19) prepares an annual report on the functioning of the doctoral school and submits it to the Rector by November 30th;
20) considers doctoral students' concerns, including requests for reconsideration.
2. At the request of the Head of the Doctoral School, the Rector may appoint one deputy head of the doctoral school.

§ 6. [Doctoral School Scientific Council]

1. The Rector appoints the Doctoral School Scientific Council.
2. The Head of the Doctoral School determines the composition of the Doctoral School Scientific Council.
3. The doctoral school's scientific council consists of:
a) the head of the doctoral school, who serves as chairperson;
b) the heads of the scientific disciplines in which the doctoral school is run, or one person designated by them, who holds at least a postdoctoral degree and has current scientific achievements in the scientific discipline within which education is provided at the doctoral school;
c) a representative of the doctoral students delegated by the university's doctoral student council.
4. The doctoral school's scientific council serves as a consultative body for the head of the doctoral school.
5. The doctoral school's scientific council is responsible, in particular, for evaluating the doctoral school's curriculum.
6. The doctoral school's scientific council's duties include:
a) annual review and review of changes to the curricula;
b) reviewing changes to the doctoral school's regulations;
c) reviewing changes to the detailed recruitment criteria;
d) reviewing the appointment/change of the doctoral supervisor(s);
e) expressing opinions on other matters presented by the head of the doctoral school.
7. The doctoral school's scientific council meets at meetings convened by the head of the doctoral school.
8. The doctoral school's scientific council presents its positions in resolutions adopted by a simple majority vote.

§ 7. [Recruitment to the doctoral school]

1. Recruitment to the doctoral school shall be conducted through an open competition, pursuant to the principles specified in the Senate's resolution on the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology.
2. Recruitment to the doctoral school shall be conducted in the following manner:
a) regular, enabling the commencement of doctoral education on October 1st,

b) special, enabling the commencement of doctoral education twice a year outside the established dates, linked to the results of competitions for positions where the doctoral scholarship is financed from sources other than the funds indicated in Article 409 of the Act.
3. The limit of places for the first year of study at the doctoral school for regular admissions is established by the Rector.
4. Doctoral students admitted through special admissions referred to in paragraph 2, point b, are not subject to the admission limits established by the Rector in accordance with paragraph
5. A person holding a professional title of Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, paragraph 2 of the Act, may be admitted to the doctoral school.
6. The Director prepares the draft terms and procedures for admission to the Doctoral School and submits them for review to the Doctoral School Scientific Council and the University Doctoral Student Council. The terms and procedures for admission to the Doctoral School are approved by the Senate at the request of the Head of the Doctoral School.
7. At the request of the Head of the Doctoral School, the Rector appoints admission committees, separately for each discipline within which admission to the doctoral school is conducted.
8. Each admissions committee consists of:
a) the head of the doctoral school, who serves as the chairperson;
b) the head/coordinator of the academic discipline in which the admissions process to the doctoral school is conducted;
c) two individuals holding the title of professor or at least the academic degree of habilited doctor, designated by the head/coordinator of the discipline in which the admissions process is conducted;
d) a representative of the doctoral student self-government;
e) a secretary, designated by the head of the doctoral school.
9. The admission rules, the deadline and place for submitting documents, and the date and place of the admissions process are publicly announced by the head of the doctoral school on the University's website and in the administrative office of the doctoral school.
10. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.
11. Refusal of admission to the doctoral school is made by an administrative decision. A request for reconsideration of the decision may be submitted.
12. Admissions results are public.
13. A doctoral student may only be a doctoral student at one doctoral school at a time.
14. A doctoral student from a doctoral school run outside the University may begin his or her studies at the doctoral school of the Czestochowa University of Technology by transferring after meeting the following conditions:
a) available places at the doctoral school;
b) convergence of his or her curriculum with the curriculum being pursued at the doctoral school within the discipline in which the doctoral dissertation will be prepared;
c) successful completion of the grading period at the previous doctoral school and the opportunity to continue research at the previous IRP.
15. Approval for transfer, including a specification of program differences, is granted by the head of the doctoral school after consulting the head of the discipline and after reviewing the documentation of the previous course of study and the progress of the IRP.

§ 8. [Doctoral School Education]

1. Doctoral school education prepares students for the award of a doctoral degree and is conducted on the basis of a curriculum and an individual research plan.
2. The curriculum is established by the University Senate at the request of the head of the doctoral school. Establishing the curriculum requires consultation with the doctoral school's scientific council and the university's doctoral student council. If the deadline specified in the statute is not met, the requirement to consult the university's doctoral student council is deemed fulfilled.

3. The curriculum is subject to annual evaluation by the doctoral school's scientific council. If changes to the curriculum are necessary, the head of the doctoral school prepares a new draft curriculum and, after receiving the opinion of the doctoral school's scientific council and the university's doctoral student council, submits it to the University Senate in time for its implementation on October 1st.
4. Doctoral school education lasts eight semesters.
5. The grading period is the academic year.
6. The head of the doctoral school assigns the head of the scientific discipline to organize classes for doctoral students.
7. The doctoral school curriculum specifies in particular:
a) compulsory subjects and their teaching load;
b) the semester or year in which the course is taught;
c) the number of internships that the doctoral student must complete or participate in.
8. The detailed scope of requirements for a given course, including the requirements for passing the course, is determined by the academic teacher conducting the course and announced at the first class.
9. Classes included in the curriculum, conducted in the form of didactic classes, may be taught by individuals with at least a doctoral degree or its equivalent, who have scientific achievements in the field of the represented discipline for the last 5 years.
10. Assessments and examinations in subjects included in the curriculum are held during the assessment and examination session.
11. Classes and assessments/examinations may be conducted in a foreign language, in particular at the request of the instructor or doctoral students, to the extent and under the conditions specified by the supervisor.
12. The following grading scale is used for assessments and examinations:
a) very good (5);
b) good plus (4.5);
c) good (4);
d) satisfactory plus (3.5);
e) satisfactory (3);
f) unsatisfactory (2).
13. A negative grade, indicating failure to pass a subject, is a failing grade.
14. All forms of classes undertaken by a doctoral student in a given subject, included in the curriculum, conclude with an examination or a graded assessment. A doctoral student may not take an examination in a subject in which they have not previously obtained the required credit.
15. If they receive an unsatisfactory grade on an examination, they are entitled to a resit examination, which should be conducted by September 15th of the given academic year.
16. The duration of the internship, including those carried out in the form of teaching classes at the University or participating in their teaching, may not exceed 60 teaching hours per year. The detailed duration of the internship is specified in the curriculum.
17. The condition for completing the year is to submit to the head of the doctoral school by September 15th of the given academic year:
a) the doctoral student's student record book and periodic achievement sheets containing positive grades in the subjects covered by the curriculum;
b) an IRP with a positive opinion from the supervisor for first-year doctoral students, or a progress report on the implementation of the IRP with a positive opinion from the supervisor for other doctoral students.
18. The head of the doctoral school shall complete the year based on the documentation referred to in § 8, section 17.
19. The curriculum and individual research plans should be aligned with the learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK).

20. The condition for submitting a doctoral dissertation, along with the supervisor's opinion, to the head of the doctoral school is the achievement of learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK), confirmed by the completion of the study program.
21. A doctoral student who intends to submit their doctoral dissertation before the scheduled deadline is obligated to complete the missing learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK).
22. Preparation of the doctoral dissertation is carried out in the following modes:
a) doctoral education;
b) extramural.
23. The completion of doctoral school education occurs upon submission of the doctoral dissertation, along with the supervisor's opinion, to the doctoral school office.
24. The head of the doctoral school issues a certificate of completion of doctoral school education.
25. The procedure for awarding the academic degree of doctor shall be initiated upon the application of a person meeting the requirements specified in Article 186, paragraph 1, points 1-3 or Article 186, paragraph 2 of the Act, submitted to the appropriate scientific discipline council.

§ 9. [Individual research plan and mid-term evaluation]

1. The doctoral student, in consultation with the supervisor, develops an IRP project.
2. The IRP must include a proposed research topic and schedule, along with a deadline for preparing the doctoral dissertation.
3. The IRP should specify, in particular, the deadlines for:
a) the doctoral student's preparation and submission or acceptance for publication of at least one scientific publication in a peer-reviewed scientific journal or at least one scientific monograph or chapter in such a monograph, listed in a current list of publishers or in the peer-reviewed proceedings of at least one international scientific conference;
b) participation in at least one national or international conference;
c) preparation and submission of a grant application to a national or foreign funding agency through a competitive process;
d) completion of individual tasks specified in the schedule referred to in paragraph 2, necessary to prepare the doctoral dissertation;
e) submission of the doctoral dissertation.
4. After receiving an opinion from the supervisor(s) and the assistant supervisor, the doctoral student shall submit the IRP project to the head of the doctoral school in time to allow for its approval before the expiry of 12 months from the commencement of studies.
5. Failure to submit the IRP project by the deadline may result in removal from the list of doctoral students.
6. Within 14 days of the doctoral student's submission of the IRP project, after consulting the doctoral school's scientific council, the head of the doctoral school may:
a) accept the IRP project;
b) return the IRP project to the doctoral student for corrections or supplementation.
7. Within 14 days of receiving the returned IRP project, the doctoral student shall submit the corrected or supplemented IRP project to the head of the doctoral school for approval.
8. Within 14 days of the submission of the corrected or supplemented IRP project, the head of the doctoral school, after consulting the doctoral school's scientific council, may:
a) accept the IRP project;
b) refuse to accept the IRP project, which will result in removal from the list of doctoral students.
9. The decision issued by the head of the doctoral program in paragraphs 5 and 8, point b, may be appealed against.
10. An IRP project approved by the head of the doctoral school becomes an IRP within the meaning of the Act.
11. The deadlines for the implementation of individual research tasks should be specified in months from the date of commencement of education at the doctoral school.

12. The implementation of the IRP is subject to a mandatory mid-term evaluation after the end of the fourth semester of education, but no later than three months from the beginning of the fifth semester.
13. The mid-term evaluation is conducted by mid-term evaluation committees, appointed by the head of the program at the beginning of each fourth semester of the education cycle, separately for each discipline in which the doctoral school is run. More than one mid-term evaluation committee may be appointed in each discipline.
14. The heads of disciplines shall submit a proposal for the composition of the mid-term evaluation committee to the head of the doctoral school.
15. The mid-term evaluation committee shall consist of three individuals holding a postdoctoral degree or the title of professor in the discipline in which the doctoral dissertation is being prepared, including at least one person employed outside the University. The chairperson of each committee shall be the head of the discipline within which the mid-term evaluation takes place.
16. A member of the mid-term evaluation committee may not be a person who, within the last five years: a) has supervised four doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation result, or b) has supervised the preparation of dissertations by at least two individuals applying for a doctoral degree who did not receive positive reviews referred to in Article 191, Section 1 of the Act.
17. A member of the mid-term evaluation committee who is employed outside the University is entitled to remuneration equal to 20% of a professor's salary.
18. Discipline heads schedule mid-term evaluation committee meetings for all doctoral students representing the discipline within which the mid-term evaluation is taking place.
19. A doctoral student's supervisor(s) and assistant supervisor(s) may not be members of the committee conducting the mid-term evaluation of the doctoral student under their supervision.
20. The mid-term evaluation is conducted based on:
a) documentation confirming the implementation of the individual research plan;
b) the opinion of the supervisor, supervisors, and assistant supervisor regarding the doctoral student's scientific development;
c) the doctoral student's self-report on the progress of the individual research plan and a discussion during which the doctoral student is asked questions regarding the implementation of the IRP.
21. The mid-term evaluation concludes with a positive or negative result. The Mid-Term Evaluation Committee adopts the evaluation by majority vote.
22. The chair of the mid-term evaluation committee shall, within seven days of the evaluation, submit a report with justification to the head of the doctoral school, including the results of the mid-term evaluation.
23. A positive evaluation enables further studies and an increase in the scholarship amount.
24. A negative result of the mid-term evaluation results in removal from the list of doctoral students by the head of the doctoral school.
25. A decision to remove the doctoral student from the list of doctoral students issued by the head of the doctoral school may be appealed for reconsideration.
26. At the request of the supervisor, an internal committee consisting of the head of the doctoral school, the head of the relevant scientific discipline, and a person holding a postdoctoral degree or the title of professor in the discipline in which the doctoral dissertation is being prepared may conduct an evaluation of the doctoral student's implementation of the IRP and the educational program at any stage of their education.
27. A negative evaluation of the proceedings referred to in § 9, section 26 results in removal from the list of doctoral students.

§ 10. [Doctoral Student Rights]

1. A person admitted to a doctoral school acquires doctoral student rights upon taking the oath.
2. A doctoral student receives a doctoral student record book, which lists the credits and exam results obtained, as well as other achievements.

3. A doctoral student receives a doctoral student ID card issued in accordance with applicable regulations.
4. A doctoral student who has obtained a doctoral degree as a result of graduating from a doctoral school has the period of study at that school, but no longer than 4 years, included in the period of employment on which employee rights depend.
5. A doctoral student who has not completed their education at a doctoral school due to:
a) taking up employment as an academic teacher or researcher;
b) ceasing to provide doctoral education in a given discipline; as long as they have obtained a doctoral degree, but no longer than 4 years, included in the period of work on which employee rights depend.
6. A doctoral student has the right to:
a) the academic supervision of a supervisor or supervisors, as well as an auxiliary supervisor, in the preparation of their doctoral dissertation;
b) submit an application to the head of the doctoral school for a change of supervisor or supervisors, as well as an auxiliary supervisor;
c) join doctoral student organizations at Czestochowa University of Technology;
d) receive a doctoral scholarship under the terms specified in the Act;
e) vacation breaks not exceeding 8 weeks per year;
f) apply for accommodation in the University's student dormitory under the terms specified in separate regulations;
g) apply for accommodation for a spouse or child in the University's student dormitory under the terms specified in separate regulations;
h) use laboratories, research equipment and facilities, library collections, and IT resources to the extent necessary to complete the curriculum, the Individual Research Plan (IRP), and prepare a doctoral dissertation, pursuant to the terms established in separate regulations;
i) receive support in preparing grant applications from the University administration;
j) undertake research internships;
k) apply for scholarships for outstanding young scientists pursuant to the terms established in separate regulations;
l) apply for an extension of the deadline for submitting a doctoral dissertation in justified cases; m) suspend their studies at the doctoral school pursuant to the terms set forth in § 15 of these regulations.
7. Doctoral students constitute the University Doctoral Council. The structure and operating principles of the University Doctoral Council are specified in its regulations.

§ 11. [Obligations of Doctoral Students]

1. Doctoral students are obligated to comply with the regulations of the doctoral school, adhere to the ethical standards set forth in the doctoral student code of ethics, and comply with copyright and related rights, as well as industrial property law.
2. Doctoral students are obligated to complete the study program and the IRP, participate in teaching activities within the doctoral school, and complete professional internships.
3. Doctoral students are obligated to have an electronic researcher ID (ORCID) (Open Researcher and Contributor ID).
4. During their education at the doctoral school, doctoral students are obligated to submit at least one application for a research project to a domestic or foreign funding agency through a competitive process.
5. Doctoral students are obligated to participate in competitions supporting the domestic and international mobility of doctoral students.
6. The doctoral student is required to submit to the doctoral school office by September 15th their student record book, along with a list of the doctoral student's periodic achievements, an annual report, and an opinion from their supervisor(s) on the progress of their work as outlined in the IRP.

A doctoral student admitted under the terms of § 7 section 2, item b, submits a report for the duration of their education at the doctoral school.
7. The doctoral student is required to submit a declaration for the evaluation of the quality of their research activity.
8. The doctoral student is required to submit the data and information required for reporting in the Integrated Information System on Science and Higher Education "POL-on."
9. The doctoral student is required to immediately notify the head of the doctoral school of their scientific achievements.
10. The doctoral student is required to comply with the internal rules and regulations that apply to them, in particular those regarding fire safety and occupational health and safety.
11. A doctoral student is obligated to immediately notify the head of the doctoral school of: a) a change in name and address, as well as any changes in other information required by the University; b) taking up employment as an academic teacher at another university and its scope; c) obtaining a doctoral degree awarded by another authorized entity; d) undertaking education at another doctoral school; e) other circumstances that may affect their status or education at the doctoral school.
12. A person removed from the list of doctoral students is obligated to return their doctoral student ID card within 7 days of the date on which the decision to remove them from the list of doctoral students becomes final.

§ 12. [Supervisor and Assistant Supervisor]

1. Within one month of commencing their studies, a doctoral student shall submit an application to the head of the doctoral school for the appointment of a supervisor or supervisors under whose supervision they will implement the IRP and prepare their doctoral dissertation.
2. An academic teacher of the Ph.D. University of Cz. may simultaneously supervise a maximum of three doctoral students at the doctoral school.
3. The application referred to in paragraph 1 shall include:
a) the doctoral student's details: first name, last name, PESEL number, and, in the absence thereof, the number of a document confirming their identity;
b) a proposal of persons to serve as supervisor or supervisors, and, if applicable, an assistant supervisor;
c) the consent of the persons referred to in point b);
d) a justification. 4. The head of the doctoral school shall decide on the appointment of a supervisor or supervisors and shall not be bound by the doctoral student's request.
5. At the supervisor's request, the head of the doctoral school shall appoint an assistant supervisor. An assistant supervisor may be a person with at least a doctoral degree.
6. A supervisor may be a person with:
a) the academic title of professor, or
b) the academic degree of doktor habilitowany, or
c) a person without a habilitated doctorate or the title of professor who is an employee of a foreign university or scientific institution, if the scientific discipline board determines that such person has significant achievements in the scientific issues covered by the doctoral dissertation.
7. A person cannot be appointed as a supervisor if, within the last 5 years,
a) he or she supervised four doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation, or
b) supervised the preparation of a doctoral dissertation by at least two doctoral candidates who did not receive positive reviews.
8. A person who has been subject to a disciplinary penalty of deprivation of the right to perform supervisory duties, as referred to in Article 276, Section 1, Item 4 of the Act, also cannot be appointed as a supervisor.
9. The supervisor's duties include:
a) supporting the doctoral student in their independent research;

b) establishing an IRP with the doctoral student and overseeing its implementation throughout the entire period of study at the doctoral school;
c) conducting a thematic doctoral seminar;
d) guiding the doctoral student's scientific development;
e) assessing the doctoral student's scientific development in the form of a written opinion submitted to the supervisor along with the doctoral student's annual report;
f) reviewing all requests from the doctoral student regarding the course of their studies, including requests for research internships and conferences;
g) notifying the supervisor of any lack of progress in the IRP;
h) supervising the doctoral dissertation being prepared by the doctoral student;
i) verifying the doctoral student's scientific achievements at the end of their study at the doctoral school.
10. The supervisor, supervisors, and the auxiliary supervisor jointly and severally fulfill the obligations listed in paragraph 9.
11. In justified cases, a doctoral student may submit a request for a change of supervisor, supervisors, or assistant supervisor, along with a justification, to the head of the doctoral school.
12. In justified cases, a doctoral student may submit a request for a change of supervisor, supervisors, or assistant supervisor, along with a justification, to the head of the doctoral school.
13. If a supervisor is on sabbatical leave or health leave, or an unexpected event prevents proper supervision of the doctoral student, the head of the discipline shall request a proposal for a second supervisor or assistant supervisor.
14. After consulting the doctoral school's scientific council, the head may change the supervisor, supervisors, or assistant supervisor.

§ 13. [Doctoral scholarship]

1. A doctoral student who does not hold a doctoral degree shall receive a doctoral scholarship, subject to paragraph 2.
2. The total period of receiving a doctoral scholarship at doctoral schools may not exceed 4 years.
3. The period referred to in paragraph 2 does not include the period of suspension of education at the doctoral school or the period of education at the doctoral school in the case referred to in Article 206 paragraph 2 of the Act.
4. The monthly doctoral scholarship shall amount to at least:
a) 37% of the professor's salary – up to the month in which the mid-term evaluation was conducted,
b) 57% of the professor's salary – after the month in which the mid-term evaluation was conducted.
5. The scholarship is non-repayable and is paid in monthly installments at the end of the month to the bank account indicated by the doctoral student, for the duration of the academic year.
6. During the period of suspension of education, the provisions regarding the determination of maternity benefits shall apply accordingly to the determination of the doctoral scholarship amount, with the provision that the basis for the allowance shall be understood as the amount of the monthly doctoral scholarship referred to in paragraph 4, payable on the date of submission of the suspension application.
7. A doctoral student with a disability certificate, a disability degree certificate, or a certificate referred to in Article 5 and Article 62 of the Act of August 27, 1997, on Vocational and Social Rehabilitation and Employment of Persons with Disabilities, receives a doctoral scholarship in an amount increased by 30% of the amount indicated in paragraph 4, point a), upon presentation of an appropriate certificate.
8. A doctoral student who submits a doctoral dissertation earlier than the completion date specified in the curriculum receives a doctoral scholarship until the completion date, but for no longer than six months.
9. Removal of a doctoral student from the list of doctoral students at a doctoral school results in the cessation of payment of the doctoral scholarship on the first day of the month following the month in which the decision to remove them becomes final.

10. A doctoral student receiving a doctoral scholarship is covered by mandatory retirement and disability insurance, as well as accident insurance, pursuant to the terms specified in separate regulations.

§ 14. [Removal from the Register of Doctoral Students]

1. The head of the doctoral school shall remove a doctoral student from the list of doctoral students in the event of:
a) a negative mid-term evaluation;
b) failure to submit the doctoral dissertation by the deadline specified in the IRP; c) withdrawal from education.
2. The head of the doctoral school may remove a doctoral student from the list of doctoral students in the event of:
a) failure to submit the IRP by the deadline;
b) unsatisfactory progress in preparing the doctoral dissertation, based on a reasoned request from the supervisor;
c) failure to fulfill obligations arising from the regulations of the doctoral school, the curriculum, and the IRP.
3. Removal from the list of doctoral students shall be effected by an administrative decision.
4. The decision referred to in paragraphs 1 and 2 may be subject to a request for reconsideration.

§ 15. [Conditions for extending the deadline for submitting a doctoral dissertation]

1. At the request of the doctoral student, education is suspended for a period corresponding to the duration of maternity leave, leave on maternity leave terms, paternity leave, and parental leave, as defined in the Act of 26 June 1974 – Labor Code.
2. The head of the doctoral school may, at the request of the doctoral student, extend the deadline for submitting a doctoral dissertation, as determined in the IRP, by no longer than two years, only in justified cases, in particular:
a) the occurrence of unforeseeable fortuitous events;
b) temporary inability to continue education due to illness;
c) the need to provide personal care for a sick family member;
d) the need to provide personal care for a child under four years of age or a child with a certified disability.
3. A request for an extension of the deadline for submitting the doctoral dissertation should include:
a) the doctoral student's details: first name, last name, PESEL number, and, if there is no PESEL number, the number of the document confirming their identity, and the semester in which the doctoral student is studying;
b) a justification, including the expected deadline for submitting the doctoral dissertation, confirmed by the supervisor.
4. The request should be accompanied by:
a) the opinion of the supervisor, supervisors, or the assistant supervisor;
b) documents justifying the extension of the deadline for submitting the doctoral dissertation.
5. The decision referred to in paragraph 2 may be appealed to the Vice-Rector for Research within 14 days of the date of receipt of the decision.

§ 16. [Disciplinary Liability of Doctoral Students]

1. A doctoral student is subject to disciplinary liability for violating the regulations in force at the University and for any act that demeans the dignity of a doctoral student.
2. A doctoral student may not be punished simultaneously by the Rector and the Disciplinary Committee for the same act.
3. Disciplinary penalties include:
a) a warning;
b) a reprimand;

c) a reprimand with a warning;
d) suspension of the doctoral student's specific rights for a period of up to one year;
e) expulsion from the university.
4. The provisions of Article 307, Section 2, Articles 308-320 of the Act, and regulations issued pursuant to Article 321 of the Act shall apply accordingly to the disciplinary liability of doctoral students.

§ 17. [Method of documenting the course of study]

1. The doctoral school documents the course of study.
2. Documentation of the course of study at the doctoral school consists of:
a) the doctoral student's album;
b) the doctoral student's personal file.
3. The doctoral student's personal file shall contain:
a) an application for admission generated from the IRK system;
b) certified true copies of diplomas from first-cycle and second-cycle studies or long-cycle master's studies;
c) statements from the supervisor expressing consent to perform the function;
d) consent to the processing of personal data for the recruitment process and for the education process at the doctoral school;
e) personal questionnaire;
f) recruitment documentation;
g) oath certificate signed by the doctoral student;
h) documents confirming scientific activity;
i) IRP;
j) periodic achievement cards;
k) IRP implementation reports;
l) applications for an increase in the doctoral scholarship due to a disability certificate, along with attachments;
m) applications for the appointment or change of a supervisor, supervisors, or an auxiliary supervisor;
n) applications to suspend the education process at the doctoral school;
o) applications to extend the deadline for submitting a doctoral dissertation;
p) copies of civil status records;
q) submitted ID card after completion of the study process, withdrawal, or removal from the list of doctoral students;
r) certificate of completion of the doctoral school;
s) information on withdrawal from the doctoral school;
t) decisions regarding the course of study at the doctoral school;
u) confirmation of personal receipt of documents or their delivery in another form;
v) requests for reconsideration of administrative matters;
w) objections of the doctoral student to the decisions of the head of the doctoral school.
4. Documentation may be maintained in electronic systems according to separate regulations.
5. Documentation of the study process is collected and stored at the doctoral school's office in accordance with applicable regulations.

§ 18. [Presumption of competence]

In matters not regulated by the Act, the University's Statutes, or these regulations, the Rector shall decide.

§ 19. [Implementation Doctorate]

A person participating in the "Implementation Doctorate" program receives a doctoral scholarship as part of the program. The detailed criteria and procedure for awarding a doctoral scholarship as part of the "Implementation Doctorate" program are regulated by separate regulations.

§ 20. [Extramural Doctorate]

A person applying for a doctoral degree extramural shall, before initiating the procedure, submit an application to the scientific council of the discipline for the appointment of a supervisor or supervisors.

Resolution No. 20/2020/2021
of the Senate of Częstochowa University of Technology of February 24, 2021

regarding: the adoption of the Regulations of the Doctoral School of Częstochowa University of Technology

1. The Senate of Częstochowa University of Technology, pursuant to Article 205 section 2 of the Act of July 20, 2018 - Law on Higher Education and Science (consolidated text: Journal of Laws of 2020, item 85, as amended) and § 22 section 1 item 2 of the Statute of Częstochowa University of Technology, in an open vote, adopted the Regulations of the Doctoral School of Częstochowa University of Technology, in accordance with the annex to this resolution.
2. Resolution No. 295/2018/2019 of the Senate of Częstochowa University of Technology dated June 26, 2019 on the adoption of the Regulations of the Doctoral School of Częstochowa University of Technology shall cease to apply.

2. This resolution comes into force on the date of its adoption, with effect from 1 October 2021.

Rector

Appendix
to the Resolution No. 295/2018/2019 of the Senate of Częstochowa University of Technology

of June 26, 2019

Doctoral School Regulations Częstochowa University of Technology

§ 1. [Scope of the Regulations]

The Doctoral School Regulations define the organization of education at the Doctoral School in matters not regulated by the Act and the Statute, in particular:

1. the manner of operation of the Doctoral School;

2. the scope of responsibilities of the Head of the Doctoral School;

3. the scope of rights and obligations of the Doctoral Student;

4. the procedure for conducting the mid-term evaluation;

5. the procedure for appointing and changing the supervisor, supervisors, or auxiliary supervisor;

6. the conditions for extending the deadline for submitting a doctoral dissertation;

7. the procedure for documenting the course of education;

8. the principles for awarding doctoral scholarships.

§ 2. [Definitions]

The terms used in these Regulations mean:

1. doctoral student – a doctoral student studying at the Doctoral School;

2. IRP – individual research plan;

3. Head of Department – the head of the doctoral school;

4. Supervisor – the supervisor or supervisors if more than one supervisor is appointed;

5. Scientific Discipline Council – the council responsible for the discipline within which education is provided at the doctoral school;

6. Council – the scientific council of the doctoral school;

7. Regulations – these regulations;

8. Statute – the Statute of the Częstochowa University of Technology;

9. Detailed Recruitment Rules – adopted by the resolution of the Senate of the Częstochowa University of Technology on the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology;

10. Doctoral School – the doctoral school of the Częstochowa University of Technology for which these regulations have been adopted;

11. University or PCz – Częstochowa University of Technology;

12. Act – Act of July 20, 2018 – Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended).

§ 3. [General Provisions]

1. Doctoral education prepares students for the award of a doctoral degree.

2. No fees are charged for doctoral education at the doctoral school.

3. The academic year at the doctoral school runs from October 1 to September 30 and is divided into two semesters.

4. All decisions concerning doctoral students whose supervisor is the head of the doctoral school are made by the Vice-Rector for Research.

5. The doctoral school does not conduct teaching or research independently.

6. The direct supervisor of the doctoral student is the head of the discipline in which the doctoral student is studying at the doctoral school.

7. In the event of discontinuation of doctoral education in a given discipline, the University shall provide doctoral students preparing a doctoral dissertation in that discipline with the opportunity to continue their education at another doctoral school in that discipline.

8. In the absence of a doctoral school offering education in a given discipline, the Częstochowa University of Technology shall cover the costs of the proceedings for the award of a doctoral degree extramurally for those who have lost the opportunity to complete their education.

§ 4. [Establishment and Organization of the Doctoral School]

1. The doctoral school is established pursuant to a decree of the Rector.

2. The doctoral school provides education in disciplines in which the University has the authority to award doctoral degrees.

3. The Rector, after consulting the appropriate body of the doctoral student self-government, appoints a director who reports directly to the Vice-Rector for Research for the ongoing management of the doctoral school. The director represents one of the disciplines in which education is provided at the doctoral school.

4. The Rector appoints the doctoral school's scientific council, which serves as a consultative body for the head of the doctoral school.

5. The doctoral school has an administrative office ensuring its operation in the main building of the Częstochowa University of Technology.

§ 5. [Head of the Doctoral School]

1. The Head of the Doctoral School:

1) supervises the overall operation of the Doctoral School, including the proper and quality implementation of the educational process, academic supervision, and the procedure for conducting the mid-term evaluation;

2) performs organizational and administrative functions within the operation of the Doctoral School;

3) makes decisions on all matters concerning the Doctoral School and doctoral students studying at the Doctoral School, not reserved for the competence of the governing bodies and persons holding managerial positions at the University;

4) submits proposals to the appropriate individual and collegial bodies of the University on all matters concerning the Doctoral School;

5) performs other activities specified by law, the provisions of the University's statute, and resolutions and orders of the University's governing bodies;

6) makes decisions regarding the assets and financial management of the Doctoral School within the scope determined by the Rector under the power of attorney granted;

7) Considers doctoral students' concerns in all matters concerning the doctoral school, not reserved for the authority of bodies or other persons holding managerial positions at the University;

8) Issues administrative decisions in individual cases concerning candidates and doctoral students, including denial of admission to the doctoral school, removal from the list of doctoral students, and in cases regulated in these regulations or in separate provisions;

9) Develops a draft of the terms and conditions of admission to the Doctoral School and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;

10) Develops a draft curriculum and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;

11) Appoints a doctoral student's supervisor or supervisors after the Doctoral School Scientific Council has assessed the candidacy;

12) Collaborates with the heads of the scientific disciplines in which education is offered at the doctoral school or with persons designated by them, in the following areas:

a) Ensures conditions for conducting education at the doctoral school, including professional internships in the form of teaching or participating in teaching, for a maximum of 60 teaching hours per year;

b) Ensures conditions for conducting research by doctoral students;

c) Enables doctoral students to undertake internships and conduct research at scientific institutions outside the University, including supporting grant-based activities and the domestic and international mobility of doctoral students;

d) Develops a draft doctoral school curriculum, including a professional internship program;

e) Collaborates with the socio-economic environment in the field of doctoral education;

f) Determines the staffing of classes within the curriculum;

14) Makes decisions on extending the deadline for submitting doctoral dissertations specified in the IRP;

15) Collaborates with the University's doctoral student council;

16) supervises the correct, reliable, and timely entry, updating, archiving, and deletion of data concerning the doctoral school in the Integrated Information System on Science and Higher Education "POL-on";

17) supervises the collection of documentation on the course of study;

18) supervises the preparation of materials for the evaluation of the doctoral school;

19) prepares an annual report on the functioning of the doctoral school and submits it to the Rector by November 30th;

20) considers doctoral students' concerns, including requests for reconsideration.

2. At the request of the Head of the Doctoral School, the Rector may appoint one deputy head of the doctoral school.

§ 6. [Doctoral School Scientific Council]

1. The Rector appoints the Doctoral School Scientific Council.

2. The Head of the Doctoral School determines the composition of the Doctoral School Scientific Council.

3. The doctoral school's scientific council consists of:

a) the head of the doctoral school, who serves as chairperson;

b) the heads of the academic disciplines in which the doctoral school is run, or one person designated by them, who holds at least a postdoctoral degree and current academic achievements in the academic discipline in which education is provided at the doctoral school;

c) a representative of doctoral students delegated by the university's doctoral student council.

4. The doctoral school's academic council serves as the advisory body for the head of the doctoral school.

5. The doctoral school's academic council is responsible, in particular, for evaluating the doctoral school's educational program.

6. The doctoral school's academic council's duties include:

a) annual review and review of changes to the educational programs;

b) reviewing changes to the doctoral school regulations;

c) reviewing changes to the detailed recruitment criteria;

d) reviewing the appointment/change of the doctoral supervisor(s);

e) expressing opinions on other matters presented by the head of the doctoral school.

7. The Doctoral School's Scientific Council meets at meetings convened by the Head of the Doctoral School.

8. The Doctoral School's Scientific Council presents its positions in resolutions adopted by a simple majority vote.

§ 7. [Recruitment to the Doctoral School]

1. Recruitment to the Doctoral School shall be conducted through an open competition, pursuant to the principles specified in the Senate's resolution on the terms and procedures for recruitment to the Doctoral School of the Częstochowa University of Technology.

2. Recruitment to the Doctoral School shall be conducted in the following manner:

a) regular, enabling the commencement of doctoral education on October 1st,

b) special, enabling the commencement of doctoral education twice a year outside the established dates, linked to the results of competitions for positions where the doctoral scholarship is financed from sources other than those specified in Article 409 of the Act.

3. The limit of places for the first year of doctoral education for regular recruitment shall be established by the Rector.

4. Doctoral students admitted through the special recruitment process referred to in paragraph 2, point b, do not contribute to the admission limits established by the Rector, in accordance with paragraph 3.

5. A person holding a professional title of Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, paragraph 2 of the Act, may be admitted to the Doctoral School.

6. The Director prepares the draft terms and procedures for admission to the Doctoral School and submits them for review to the Doctoral School's Scientific Council and the University's Doctoral Student Council. The terms and procedures for admission to the Doctoral School are approved by the Senate upon request of the Head of the Doctoral School.

7. Upon request of the Head of the Doctoral School, the Rector appoints recruitment committees, separately for each discipline within which recruitment to the Doctoral School is conducted.

8. Each recruitment committee is composed of:

a) the Head of the Doctoral School, who serves as the Chairperson;

b) the head/coordinator of the academic discipline in which the admissions process for the doctoral school is conducted;

c) two individuals holding the title of professor or at least the academic degree of habilitated doctorate, designated by the head/coordinator of the academic discipline in which the admissions process is conducted;

d) a representative of the doctoral student self-government;

e) a secretary, designated by the head of the doctoral school.

9. The admission rules, the deadline and place for submitting documents, and the date and place of the admissions process are publicly announced by the head of the doctoral school on the University's website and in the administrative office of the doctoral school.

10. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.

11. Refusal of admission to the doctoral school is made by an administrative decision. The decision may be appealed for reconsideration.

12. The admission results are public.

13. A doctoral student may only be enrolled in one doctoral school at a time.

14. A doctoral student from a doctoral school run outside the University may begin his/her studies at the doctoral school of the Częstochowa University of Technology through transfer upon fulfillment of the following conditions:

a) availability of places at the doctoral school;

b) convergence of his/her program of study with the program being pursued at the doctoral school within the discipline in which the doctoral dissertation will be prepared;

c) completion of the grading period at the previous doctoral school and the possibility of continuing the research planned in the previous IRP at the Częstochowa University of Technology.

15. Approval for transfer, including a specification of program differences, is granted by the head of the doctoral school after consulting the head of the discipline and after reviewing the documentation of the previous course of study.

§ 8. [Doctoral School Education]

1. Doctoral school education prepares students for the award of a doctoral degree and is conducted on the basis of a curriculum and an individual research plan.

2. The curriculum is established by the University Senate at the request of the head of the doctoral school. Establishing the curriculum requires consultation with the doctoral school's scientific council and the university's doctoral student council. If the deadline specified in the statute is not met, the requirement to consult the university's doctoral student council is deemed fulfilled.

3. The curriculum is subject to annual evaluation by the doctoral school's scientific council. If changes to the curriculum are necessary, the head of the doctoral school prepares a new draft curriculum and, after receiving the opinion of the doctoral school's scientific council and the university's doctoral student council, submits it to the University Senate in time for its implementation on October 1st.

4. Doctoral school education lasts eight semesters.

5. The grading period is the academic year.

6. The head of the doctoral school assigns the head of the scientific discipline to organize classes for doctoral students.

7. The doctoral school curriculum specifies in particular:

a) compulsory subjects and their hours;

b) the semester or year in which the course is taught;

c) the number of internships that the doctoral student must complete or participate in. 8. The detailed scope of requirements for a given course, including the requirements for passing the course, is determined by the academic teacher teaching the course and announced at the first class.

9. Classes included in the curriculum, conducted in the form of didactic classes, may be taught by individuals with at least a doctoral degree or its equivalent, who have scientific achievements in the field represented over the last 5 years.

10. Credits or examinations in a subject included in the curriculum are held during the credit and examination session.

11. Classes and assessments/examinations may be conducted in a foreign language, particularly at the request of the instructor or doctoral students, to the extent and under the conditions specified by the supervisor.

12. The following grading scale is used for assessments and examinations:

a) very good (5);

b) good plus (4.5);

c) good (4); d) satisfactory plus (3.5);

e) satisfactory (3);

f) unsatisfactory (2).

13. A negative grade, indicating failure to pass a course, is a failing grade.

14. All forms of coursework undertaken by a doctoral student in a given course, as provided for in the curriculum, conclude with an examination or a graded assessment. A doctoral student may not take an examination in a course for which they have not previously obtained the required credit.

15. If the doctoral student receives an unsatisfactory grade in the examination, they are entitled to a resit examination, which should be conducted by September 15th of the given academic year.

16. The duration of the internship, including those conducted in the form of teaching classes at the University or participating in their teaching, cannot exceed 60 teaching hours per year. The detailed duration of the internship is specified in the curriculum.

17. To complete the year, the following is required: a) the student's record book and periodic achievement sheets containing positive grades in the subjects covered by the curriculum:

a) the doctoral student's student record book and periodic achievement sheets containing positive grades in the subjects covered by the curriculum;

b) the IRP (Independent Postgraduate Research Assessment) approved by the supervisor for first-year doctoral students, or a progress report on the implementation of the IRP (Independent Postgraduate Research Assessment) approved by the supervisor for other doctoral students.

18. The head of the doctoral school awards credit for the year based on the documentation referred to in § 8, section 17.

19. The curriculum and individual research plans should be aligned with the learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK).

20. The condition for submitting the doctoral dissertation, along with the supervisor's opinion, to the head of the doctoral school is the achievement of learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK), confirmed by the completion of the curriculum.

21. A doctoral student who intends to submit their doctoral dissertation before the scheduled deadline is obligated to complete the missing learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK).

22. Preparation of a doctoral dissertation is carried out in the following modes:

a) doctoral training;

b) extramural.

23. Completion of doctoral school education occurs upon submission of the doctoral dissertation, along with the supervisor's opinion, to the doctoral school office.

24. The head of the doctoral school issues a certificate of completion of doctoral school education.

25. The process for awarding a doctoral degree shall be initiated upon the application of a person meeting the requirements specified in Article 186, paragraph 1, points 1-3 or Article 186, paragraph 2 of the Act, submitted to the appropriate scientific discipline council.

§ 9. [Individual Research Plan and Mid-Term Evaluation]

1. The doctoral student, in consultation with the supervisor, develops an IRP project.

2. The IRP must include a proposed research topic and schedule, along with a deadline for preparing the doctoral dissertation.

3. The IRP should specify, in particular, the deadlines for:

a) the doctoral student to prepare and submit for publication or accept for publication at least one scientific publication in a peer-reviewed scientific journal or at least one scientific monograph or a chapter in such a monograph, listed in the current list of publishers or in the peer-reviewed proceedings of at least one international scientific conference;

b) participation in at least one national or international conference;

c) preparation and submission of a grant application to a national or foreign agency funding research through a competitive process;

d) completion of individual tasks specified in the schedule referred to in paragraph 2, necessary for the preparation of the doctoral dissertation;

e) submission of the doctoral dissertation.

4. After receiving an opinion from the supervisor(s) and the assistant supervisor on the IRP project, the doctoral student shall submit it to the head of the doctoral school in time to allow for its approval within 12 months of the commencement of studies.

5. Failure to submit the IRP project by the deadline may result in removal from the list of doctoral students.

6. Within 14 days of the doctoral student's submission of the IRP project, after consulting the doctoral school's scientific council, the head of the doctoral school may:

a) accept the IRP project;

b) return the IRP project to the doctoral student for corrections or supplementation.

7. Within 14 days of receiving the returned IRP project, the doctoral student shall submit the corrected or supplemented IRP project to the head of the doctoral school for approval.

8. Within 14 days of the submission of the corrected or supplemented IRP project, the head of the doctoral school, after consulting the doctoral school's scientific council, may:

a) accept the IRP project;

b) refuse to accept the IRP project, which will result in removal from the list of doctoral students.

9. The decision issued by the head of the doctoral school in paragraphs 5 and 8, point b, may be appealed against.

10. An IRP project approved by the head of the doctoral school becomes an IRP within the meaning of the Act. 11. Deadlines for the completion of individual research tasks should be specified in months from the commencement date of doctoral school education.

12. The implementation of the IRP is subject to a mandatory mid-term evaluation after the end of the fourth semester of education, but no later than three months after the beginning of the fifth semester.

13. Mid-term evaluations are conducted by mid-term evaluation committees, appointed by the head of the doctoral school at the beginning of each fourth semester of the education cycle, separately for each discipline in which the doctoral school is run. More than one mid-term evaluation committee may be appointed in each discipline.

14. Discipline heads submit a proposal for the mid-term evaluation committee to the head of the doctoral school.

15. The mid-term evaluation committee shall consist of three individuals holding a postdoctoral degree or the title of professor in the discipline in which the doctoral dissertation is being prepared, including at least one person employed outside the University. The chairperson of each committee shall be the head of the discipline within which the mid-term evaluation is taking place.

16. A member of the mid-term evaluation committee may not be a person who, within the last five years:

a) has supervised the dissertation of four doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation result, or

b) has supervised the dissertation of at least two doctoral candidates who did not receive positive reviews as referred to in Article 191, Section 1 of the Act. 17. A person serving on the mid-term evaluation committee who is employed outside the University shall be entitled to remuneration equal to 20% of the professor's salary.

18. Discipline heads set the dates for the mid-term evaluation committee meetings for all doctoral students representing the discipline within which the mid-term evaluation is taking place.

19. The doctoral student's supervisor(s) and assistant supervisor(s) may not be members of the committee conducting the mid-term evaluation of the doctoral student they supervise.

20. The mid-term evaluation is conducted based on:

a) documentation confirming the implementation of the individual research plan;

b) the opinion of the supervisor, supervisors, and assistant supervisor regarding the doctoral student's scientific development;

c) the doctoral student's self-report on the progress of the individual research plan and a discussion during which the doctoral student is asked questions regarding the implementation of the IRP.

21. The mid-term evaluation ends with a positive or negative result. The mid-term evaluation committee adopts the evaluation by a majority vote.

22. The chair of the mid-term evaluation committee shall, within seven days of the evaluation, submit a report with a justification, including the results of the mid-term evaluation, to the head of the doctoral school.

23. A positive evaluation allows for further studies and an increase in the scholarship amount. 24. A negative result of the mid-term evaluation results in removal from the list of doctoral students by the head of the doctoral school.

25. A decision to remove the candidate from the list of doctoral students issued by the head of the doctoral school may be appealed for reconsideration.

26. At the request of the supervisor, an internal committee consisting of the head of the doctoral school, the head of the relevant scientific discipline, and a person holding a postdoctoral degree or the title of professor in the discipline in which the doctoral dissertation is being prepared may conduct an evaluation of the candidate's implementation of the IRP and the curriculum at any stage of their education.

27. A negative evaluation of the procedure referred to in § 9, section 26 results in removal from the list of doctoral students.

§ 10. [Rights of the doctoral student]

1. A person admitted to a doctoral school acquires the rights of a doctoral student upon taking the oath.

2. A doctoral student receives a doctoral student record book, which lists the credits and exam results obtained, as well as other achievements.

3. A doctoral student receives a doctoral student ID card issued in accordance with applicable regulations.

4. A doctoral student who has obtained a doctoral degree as a result of graduating from a doctoral school has the period of study at that school, but no longer than 4 years, included in the period of employment on which employee rights depend.

5. A doctoral student who has not completed their education at a doctoral school due to:

a) taking up employment as an academic teacher or researcher;

b) ceasing to provide doctoral education in a given discipline; as long as they have obtained a doctoral degree, but no longer than 4 years, included in the period of work on which employee rights depend.

6. A doctoral student has the right to:

a) the academic supervision of a supervisor or supervisors, as well as an auxiliary supervisor, in the preparation of their doctoral dissertation;

b) submit an application to the head of the doctoral school for a change of supervisor or supervisors, as well as an auxiliary supervisor;

c) join doctoral student organizations at Częstochowa University of Technology;

d) receive a doctoral scholarship under the terms specified in the Act;

e) vacation breaks not exceeding 8 weeks per year;

f) apply for accommodation in the University's student dormitory under the terms specified in separate regulations;

g) apply for accommodation for a spouse or child in the University's student dormitory under the terms specified in separate regulations;

h) use laboratories, research equipment and apparatus, library collections and IT resources to the extent necessary to implement the educational program, the IRP, and prepare the doctoral dissertation, in accordance with the principles established in separate regulations;

j) undertake research internships;

k) apply for scholarships for outstanding young scientists pursuant to the terms established in separate regulations;

l) apply for an extension of the deadline for submitting a doctoral dissertation in justified cases;

m) suspend education at the doctoral school pursuant to the terms set forth in § 15 of these regulations.

7. Doctoral students of Częstochowa University of Technology constitute the University Doctoral Council. The structure and principles of operation of the University Doctoral Council are specified in its regulations.

§ 11.[Doctoral Student Obligations]

1. Doctoral students are obligated to comply with the regulations of the doctoral school, adhere to the ethical standards set forth in the doctoral student code of ethics, and comply with copyright and related rights, as well as industrial property law.

2. Doctoral students are obligated to complete the study program and the IRP, participate in teaching activities within the doctoral school, and complete professional internships.

3. Doctoral students are obligated to have an electronic researcher ID (ORCID) (Open Researcher and Contributor ID).

4. During their doctoral studies, doctoral students are obligated to submit at least one application for a research project to a domestic or foreign funding agency through a competitive process.

5. Doctoral students are obligated to participate in competitions supporting the domestic and international mobility of doctoral students.

6. The doctoral student is required to submit to the doctoral school office by September 15th their student record book, along with a list of the doctoral student's periodic achievements, an annual report, and an opinion from their supervisor(s) on the progress of their work as outlined in the IRP. A doctoral student admitted under the terms of § 7, section 2, item 2, submits a report for the duration of their education at the doctoral school.

7. The doctoral student is required to submit a declaration for the evaluation of the quality of their research activity.

8. The doctoral student is required to submit the data and information required for reporting in the Integrated Information System on Science and Higher Education "POL-on."

9. The doctoral student is required to immediately notify the head of the doctoral school of their scientific achievements.

10. The doctoral student is required to comply with the internal rules and regulations that apply to them, in particular those regarding fire safety and occupational health and safety.

11. A doctoral student is obligated to immediately notify the head of the doctoral school of:

1) a change in name and address, as well as any other information required by the University;

2) taking up employment as an academic teacher at another university and its scope;

3) obtaining a doctoral degree awarded by another authorized entity;

4) undertaking education at another doctoral school;

5) other circumstances that may affect their status or education at the doctoral school.

12. A person removed from the list of doctoral students is obligated to return their doctoral student ID card within 7 days of the date on which the decision to remove them from the list of doctoral students becomes final.

§ 12 [Thesis Supervisor and Assistant Supervisor]

1. Within one month of commencing their studies, the doctoral student shall submit an application to the head of the doctoral school for the appointment of a supervisor or supervisors under whose supervision they will implement the IRP and prepare their doctoral dissertation.

2. A doctoral student may simultaneously supervise a maximum of three doctoral students at the doctoral school.

3. The application referred to in paragraph 1 shall include:

1) the doctoral student's details: first name, last name, PESEL number, and, if not available, the number of a document confirming their identity;

2) a proposal of persons to serve as supervisor or supervisors, and, if applicable, an auxiliary supervisor;

3) the consent of the persons referred to in paragraph 2;

4) a justification.

4. The head of the doctoral school shall decide on the appointment of the supervisor or supervisors and is not bound by the doctoral student's request.

5. Upon the supervisor's request, the head of the doctoral school shall appoint an auxiliary supervisor. An assistant supervisor may be a person holding at least a doctoral degree.

6. A supervisor may be a person holding:

1) the academic title of professor, or

2) the academic degree of habilitated doctorate, or

3) a person without a doctoral degree or the title of professor who is an employee of a foreign university or scientific institution, if the scientific discipline board determines that this person has significant achievements in the scientific issues covered by the doctoral dissertation.

7. A supervisor may not be a person who, within the last 5 years:

1) has supervised 4 doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation, or

2) has supervised the preparation of a doctoral dissertation by at least 2 doctoral candidates who did not receive positive reviews.

8. A supervisor may also not be a person who has been subject to a disciplinary penalty of deprivation of the right to perform supervisory duties, as referred to in Article Article 276, paragraph 1, point 4 of the Act.

9. The supervisor's duties include:

1) supporting the doctoral student in their independent research;

2) establishing an IRP with the doctoral student and overseeing its implementation throughout the entire period of education at the doctoral school;

3) conducting a thematic doctoral seminar;

4) guiding the doctoral student's scientific development;

5) assessing the doctoral student's scientific development in the form of a written opinion submitted to the supervisor along with the doctoral student's annual report;

6) reviewing all doctoral student requests regarding the course of their education, including requests for research internships and conferences;

7) notifying the supervisor of any lack of progress in the IRP;

8) supervising the doctoral dissertation being prepared by the doctoral student;

9) verifying the doctoral student's scientific achievements at the end of their education at the doctoral school.

10. The supervisor, supervisors, and the assistant supervisor shall jointly and severally fulfill the obligations specified in paragraph 9.

11. In justified cases, the doctoral student may submit a request for a change of supervisor, supervisors, or assistant supervisor, along with a justification, to the head of the doctoral school.

12. In justified cases, the supervisor may submit a request for a change of supervisor, supervisors, or assistant supervisor, along with a justification, to the head of the doctoral school.

13. If the supervisor is on sabbatical or health leave, or an unexpected event prevents the proper supervision of the doctoral student, the supervisor shall request the head of the discipline to propose a second supervisor or assistant supervisor.

14. After consulting the doctoral school's scientific council, the supervisor may replace the supervisor, supervisors, or assistant supervisor.

§ 13 [Doctoral scholarship]

1. A doctoral student who does not hold a doctoral degree receives a doctoral scholarship subject to paragraph 2.
2. The total period of receiving a doctoral scholarship at doctoral schools may not exceed 4 years.
3. The period referred to in paragraph 2 does not include the period of suspension of education at the doctoral school or the period of education at the doctoral school in the case referred to in Article 206, paragraph 2 of the Act.
4. The amount of the monthly doctoral scholarship is at least:
1) 37% of the professor's salary – up to the month in which the mid-term evaluation was conducted,
2) 57% of the professor's salary – after the month in which the mid-term evaluation was conducted.
5. The scholarship is non-repayable and is paid in monthly installments at the end of the month to the bank account indicated by the doctoral student, for the duration of the academic year.
6. During the period of suspension of education, the provisions on determining maternity benefits shall apply accordingly to determining the amount of the doctoral scholarship, except that the basis for calculating the benefit shall be understood as the amount of the monthly doctoral scholarship referred to in paragraph 4, payable on the date of submission of the suspension application.
7. A doctoral student with a disability certificate, a disability degree certificate, or a certificate referred to in Articles 5 and 62 of the Act of August 27, 1997, on Vocational and Social Rehabilitation and Employment of Persons with Disabilities, shall receive a doctoral scholarship in the amount increased by 30% of the amount indicated in paragraph 4, item 1, upon presentation of the relevant certificate.
8. A doctoral student who submits their doctoral dissertation earlier than the completion date specified in the education program shall receive a doctoral scholarship until the completion date, but for no longer than 6 months.
9. Removal of a doctoral student from the list of doctoral students of the doctoral school results in the cessation of payment of the doctoral scholarship on the first day of the month following the month in which the decision on removal becomes final.

10. A doctoral student receiving a doctoral scholarship is covered by mandatory retirement, disability, and accident insurance, pursuant to separate provisions.

§ 14 [Removal from the list of doctoral students]

1. The head of the doctoral school removes a doctoral student from the list of doctoral students in the event of:
1) a negative mid-term evaluation;
2) failure to submit the doctoral dissertation by the deadline specified in the IRP;
3) withdrawal from education.
2. The head of the doctoral school may remove a doctoral student from the list of doctoral students in the event of:
1) failure to submit the IRP by the deadline;
2) unsatisfactory progress in the preparation of the doctoral dissertation, based on a justified request from the supervisor;
3) failure to fulfill obligations arising from the regulations of the doctoral school, the curriculum, and the IRP.
3. Removal from the list of doctoral students shall be effected by an administrative decision. 4
. The decision referred to in paragraphs 1 and 2 may be subject to a request for reconsideration.

§ 15 [Conditions for extending the deadline for submitting a doctoral dissertation]

1. At the request of the doctoral student, education is suspended for a period corresponding to the duration of maternity leave, leave on maternity leave terms, paternity leave, and parental leave, as defined in the Act of June 26, 1974 – the Labor Code.
2. At the request of the doctoral student, the head of the doctoral school may extend the deadline for submitting a doctoral dissertation, as determined in the IRP, by no longer than two years, only in justified cases, in particular:
1) the occurrence of unforeseeable fortuitous events;
2) temporary inability to continue education due to illness;
3) the need to provide personal care for a sick family member;
4) the need to provide personal care for a child under four years of age or a child with a certified disability.
3. A request for an extension of the deadline for submitting the doctoral dissertation should include:
1) the doctoral student's details: first name, last name, PESEL number, and, if there is no PESEL number, the number of the document confirming their identity, and the semester in which the doctoral student is pursuing their studies;
2) a justification, including the expected deadline for submitting the doctoral dissertation, confirmed by the supervisor.
4. The request must be accompanied by:
1) the opinion of the supervisor, supervisors, or the assistant supervisor;
2) documents justifying the extension of the deadline for submitting the doctoral dissertation.
5. The decision referred to in paragraph 2 may be appealed to the Vice-Rector for Research within 14 days of receipt of the decision.

§ 16 [Disciplinary liability of doctoral students]

1. A doctoral student is subject to disciplinary liability for violating the regulations in force at the University and for an act derogatory to the dignity of a doctoral student.
2. A doctoral student may not be punished simultaneously by the Rector and the Disciplinary Committee for the same act.
3. Disciplinary penalties include:
1) a warning;
2) a reprimand;
3) a reprimand with a warning;

4) suspension of certain doctoral student rights for a period of up to one year;
5) expulsion from the University.
4. The provisions of Article 307, paragraph 2, Articles 308-320 of the Act, and regulations issued pursuant to Article 321 of the Act shall apply accordingly to the disciplinary liability of doctoral students.

§ 17 [Method of documenting the course of study]

1. The doctoral school documents the course of study.
2. The documentation of the course of study at the doctoral school shall consist of:
1) the doctoral student's album;
2) the doctoral student's personal file.
3. The doctoral student's personal file contains:
1) an application for admission generated from the IRK system;
2) a certified copy of the diplomas of completion of first-cycle and second-cycle studies or long-cycle master's studies;
3) a statement of consent from the supervisor to perform the function;
4) consent to the processing of personal data for the recruitment process and for the education process at the doctoral school;
5) a personal questionnaire;
6) recruitment process documentation;
7) an oath signed by the doctoral student;
8) documents confirming scientific activity;
9) an IRP;
10) periodic achievement cards; 1
1) IRP implementation reports;
12) applications for an increase in the doctoral scholarship in connection with a disability certificate, along with attachments;
13) applications to appoint or change a supervisor, supervisors, or an assistant supervisor;
14) applications to suspend the doctoral school education process;
15) applications to extend the deadline for submitting a doctoral dissertation;
16) copies of civil registry records;
17) submitted ID cards after the completion of the education process, withdrawal, or removal from the list of doctoral students;
18) certificate of completion of the doctoral school;
19) information on withdrawal from the doctoral school education;
20) decisions regarding the course of study at the doctoral school;
21) confirmation of personal receipt of documents or their delivery in another form;
22) applications for reconsideration of administrative matters;
23) objections by the doctoral student to the decisions of the head of the doctoral school.
4. Documentation may be maintained in IT systems in accordance with separate regulations. 5. Documentation of the educational process is collected and stored at the doctoral school's office in accordance with applicable regulations.

§ 18 [Presumption of Competence]

In matters not regulated by the Act, the University Statute, or these regulations, the Rector shall decide.

§ 19 [Implementation Doctorate]

A person participating in the "Implementation Doctorate" program receives a doctoral scholarship as part of the program. Detailed criteria and procedures for awarding doctoral scholarships as part of the "Implementation Doctorate" program are regulated by separate regulations.

§ 20 [External Doctorate]

A person applying for a doctoral degree extramural shall submit an application to the scientific council of the discipline for the appointment of a supervisor or supervisors before initiating the procedure.

Resolution No. 194/2022/2023
of the Senate of Częstochowa University of Technology of May 24, 2023

regarding: the adoption of the Regulations of the Doctoral School of Częstochowa University of Technology

1. The Senate of Częstochowa University of Technology, pursuant to Article 205 section 2 of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2023, item 742, as amended) and § 22 section 1 item 2 of the Statute of Częstochowa University of Technology, in an open vote, adopted the Regulations of the Doctoral School of Częstochowa University of Technology, in accordance with the annex to this resolution.

2. Resolution No. 101/2021/2022 of the Senate of Częstochowa University of Technology dated March 30, 20122 on the adoption of the Regulations of the Doctoral School of Częstochowa University of Technology shall cease to apply.

2. This resolution comes into force on the date of its adoption, with effect from 1 October 2023.

Rector

Appendix
Resolution No. 194/2022/2023

of the Senate of Częstochowa University of Technology of May 24, 2023

Doctoral School Regulations Częstochowa University of Technology

§ 1. [Scope of the Regulations]

The Doctoral School Regulations define the organization of education at the Doctoral School in matters not regulated by the Act and the Statute, in particular:

1. the manner of operation of the Doctoral School;

2. the scope of responsibilities of the Head of the Doctoral School;

3. the scope of rights and obligations of the Doctoral Student;

4. the procedure for conducting the mid-term evaluation;

5. the procedure for appointing and changing the supervisor, supervisors, or auxiliary supervisor;

6. the conditions for extending the deadline for submitting a doctoral dissertation;

7. the procedure for documenting the course of education;

8. the principles for awarding doctoral scholarships.

§ 2. [Definitions]

The terms used in these Regulations mean:

1. doctoral student – a doctoral student studying at the Doctoral School;

2. IRP – individual research plan;

3. Head of Department – the head of the doctoral school;

4. Supervisor – the supervisor or supervisors if more than one supervisor is appointed;

5. Scientific Discipline Council – the council responsible for the discipline within which education is provided at the doctoral school;

6. Council – the scientific council of the doctoral school;

7. Regulations – these regulations;

8. Statute – the Statute of the Częstochowa University of Technology;

9. Detailed Recruitment Rules – adopted by the resolution of the Senate of the Częstochowa University of Technology on the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology;

10. Doctoral School – the doctoral school of the Częstochowa University of Technology for which these regulations have been adopted;

11. University or PCz – Częstochowa University of Technology;

12. Act – Act of July 20, 2018 – Law on Higher Education and Science .

§ 3. [General Provisions]

1. Doctoral education prepares students for the award of a doctoral degree.

2. No fees are charged for doctoral education at the doctoral school.

3. The academic year at the doctoral school runs from October 1 to September 30 and is divided into two semesters.

4. All decisions concerning doctoral students whose supervisor is the head of the doctoral school are made by the Vice-Rector for Research.

5. The doctoral school does not conduct teaching or research independently.

6. The direct supervisor of a doctoral student is the head of the scientific discipline in which the doctoral student is studying at the doctoral school.

7. If doctoral education in a given scientific discipline is discontinued, the University shall provide doctoral students preparing a doctoral dissertation in that scientific discipline with the opportunity to continue their education at another doctoral school in that scientific discipline.

8. If there is no doctoral school offering education in a given scientific discipline, the Częstochowa University of Technology shall cover the costs of the proceedings for the award of a doctoral degree extramural to those who have lost the opportunity to complete their education.

§ 4. [Establishment and Organization of the Doctoral School]

1. The doctoral school is established pursuant to a decree of the Rector.

2. The doctoral school provides education in disciplines in which the University has the authority to award doctoral degrees.

3. The Rector, after consulting the appropriate body of the doctoral student self-government, appoints a director who reports directly to the Vice-Rector for Research for the ongoing management of the doctoral school. The director represents one of the disciplines in which education is provided at the doctoral school.

4. The Rector appoints the doctoral school's scientific council, which serves as a consultative body for the head of the doctoral school.

5. The doctoral school has an administrative office ensuring its operation in the main building of the Częstochowa University of Technology.

§ 5. [Head of the Doctoral School]

1. The Head of the Doctoral School:

1) supervises the overall operation of the Doctoral School, including the proper and quality implementation of the educational process, academic supervision, and the procedure for conducting the mid-term evaluation;

2) performs organizational and administrative functions within the operation of the Doctoral School;

3) makes decisions on all matters concerning the Doctoral School and doctoral students studying at the Doctoral School, not reserved for the competence of the governing bodies and persons holding managerial positions at the University;

4) submits proposals to the appropriate individual and collegial bodies of the University on all matters concerning the Doctoral School;

5) performs other activities specified by law, the provisions of the University's statute, and resolutions and orders of the University's governing bodies;

6) makes decisions regarding the assets and financial management of the Doctoral School within the scope determined by the Rector under the power of attorney granted;

7) considers doctoral students' concerns in all matters concerning the doctoral school, not reserved for the authority of bodies or other persons holding managerial positions at the University;

8) considers applications from doctoral students in all matters concerning the doctoral school submitted to the Doctoral Student Ombudsman;

9) Issues administrative decisions in individual cases concerning candidates and doctoral students, including denial of admission to the doctoral school, removal from the list of doctoral students, and in cases regulated in these regulations or in separate provisions;

10) Develops a draft of the terms and conditions of admission to the Doctoral School and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;

11) Develops a draft curriculum and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;

12) Appoints a doctoral student's supervisor or supervisors after the Doctoral School Scientific Council has assessed the candidacy;

13) Collaborates with the vice-deans for science representing the relevant scientific disciplines in which education is offered at the doctoral school or with persons designated by them, in the following areas:

a) Ensures conditions for conducting education at the doctoral school, including professional internships in the form of teaching or participating in teaching, for a maximum of 60 teaching hours per year;

b) Ensures conditions for conducting research by doctoral students;

c) Enables doctoral students to undertake internships and conduct research at scientific institutions outside the University, including supporting grant-based activities and the domestic and international mobility of doctoral students;

d) Develops a draft doctoral school curriculum, including a professional internship program;

e) Collaborates with the socio-economic environment in the field of doctoral education;

f) Determines the staffing of classes within the curriculum;

14) Makes decisions on extending the deadline for submitting doctoral dissertations specified in the IRP;

15) Collaborates with the University's doctoral student council;

16) supervises the correct, reliable, and timely entry, updating, archiving, and deletion of data concerning the doctoral school in the Integrated Information System on Science and Higher Education "POL-on";

17) supervises the collection of documentation on the course of study;

18) supervises the preparation of materials for the evaluation of the doctoral school;

19) prepares an annual report on the functioning of the doctoral school and submits it to the Rector by November 30th;

20) considers doctoral students' concerns, including requests for reconsideration.

2. At the request of the Head of the Doctoral School, the Rector may appoint one deputy head of the doctoral school.

§ 6. [Doctoral School Scientific Council]

1. The Rector appoints the Doctoral School Scientific Council.

2. The Head of the Doctoral School determines the composition of the Doctoral School Scientific Council.

3. The doctoral school's scientific council consists of:

1) the head of the doctoral school, who serves as chairperson;

2) the heads of the academic disciplines in which the doctoral school is run, or one person designated by them, who holds at least a postdoctoral degree and current academic achievements in the academic discipline in which education is provided at the doctoral school;

3) a representative of doctoral students delegated by the university's doctoral student council.

4. The doctoral school's academic council serves as the advisory body for the head of the doctoral school.

5. The doctoral school's academic council is responsible, in particular, for evaluating the doctoral school's educational program.

6. The doctoral school's academic council's duties include:

1) annual review and review of changes to the educational programs;

2) reviewing changes to the doctoral school regulations;

3) reviewing changes to the detailed recruitment criteria;

4) reviewing the appointment/change of the doctoral supervisor(s);

5) expressing opinions on other matters presented by the head of the doctoral school.

7. The Doctoral School's Scientific Council meets at meetings convened by the Head of the Doctoral School.

8. The Doctoral School's Scientific Council presents its positions in resolutions adopted by a simple majority vote.

§ 7. [Recruitment to the Doctoral School]

1. Recruitment to the Doctoral School shall be conducted through an open competition, pursuant to the principles specified in the Senate's resolution on the terms and procedures for recruitment to the Doctoral School of the Częstochowa University of Technology.

2. Recruitment to the Doctoral School shall be conducted in the following manner:

a) regular, enabling the commencement of doctoral education on October 1st,

b) special, enabling the commencement of doctoral education twice a year outside the established dates, linked to the results of competitions for positions where the doctoral scholarship is financed from sources other than those specified in Article 409 of the Act.

3. The limit of places for the first year of doctoral education for regular recruitment shall be established by the Rector.

4. Doctoral students admitted through the special recruitment process referred to in paragraph 2, point 2, do not contribute to the admission limits established by the Rector, in accordance with paragraph 3.

5. A person holding a professional title of Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, paragraph 2 of the Act, may be admitted to the Doctoral School.

6. The director prepares a draft of the detailed recruitment rules, submits it to the council and the university doctoral student council for review, and is approved by the university senate.

7. The director, in consultation with the vice-deans for research representing the relevant scientific disciplines, appoints recruitment committees, separately for each scientific discipline within which recruitment to the doctoral school is conducted.

8. Each recruitment committee is composed of:

1) the Head of the Doctoral School, who serves as the Chairperson;

2) the vi-ce dean of the academic discipline in which the admissions process for the doctoral school is conducted;

3) two individuals holding the title of professor or at least the academic degree of habilitated doctorate, designated by the head/coordinator of the academic discipline in which the admissions process is conducted;

4) a representative of the doctoral student self-government;

5) a secretary, designated by the head of the doctoral school.

9. The admission rules, the deadline and place for submitting documents, and the date and place of the admissions process are publicly announced by the head of the doctoral school on the University's website and in the administrative office of the doctoral school.

10. Candidates with disabilities or chronic illnesses are provided with assistance and accommodations during the recruitment process, tailored to their individual needs. The Rector's Representative for Persons with Disabilities determines the form of assistance during the recruitment process individually for each candidate.

11. In the case of a person applying to the doctoral school who is an employee of the University, the Rector's consent is required.

12. A person employed by the University may be admitted to the doctoral school provided that their full-time position is reduced to 0.5 full-time equivalent (FTE) due to the need to carry out teaching and research.

13. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.

14. Refusal of admission to the doctoral school is made by an administrative decision. The decision may be subject to a request for reconsideration.

15. Admission results are public.

16. A doctoral student may only be enrolled in one doctoral school at a time.

17. A doctoral student who studied at another doctoral school may begin their studies at the Doctoral School of the Częstochowa University of Technology through transfer upon meeting the following conditions:

1) availability of places in the doctoral school;

2) convergence of the curriculum being pursued with the curriculum being pursued at the doctoral school within the scientific discipline in which the doctoral dissertation will be prepared;

3) completion of the grading period at the previous doctoral school and the opportunity to continue the research planned under the previous IRP at the University of Technology.

18. Approval for transfer, along with a determination of program differences by the Vice-Dean for Research representing the relevant academic discipline, is made by the Head of the Doctoral School after consulting and reviewing the documentation of the previous course of study and the progress of the IRP.

§ 8. [Doctoral School Education]

1. Doctoral school education prepares students for the award of a doctoral degree and is conducted on the basis of a curriculum and an individual research plan.

2. The curriculum is established by the University Senate at the request of the head of the doctoral school. Establishing the curriculum requires consultation with the doctoral school's scientific council and the university's doctoral student council. If the deadline specified in the statute is not met, the requirement to consult the university's doctoral student council is deemed fulfilled.

3. The curriculum is subject to annual evaluation by the doctoral school's scientific council. If changes to the curriculum are necessary, the head of the doctoral school prepares a new draft curriculum and, after receiving the opinion of the doctoral school's scientific council and the university's doctoral student council, submits it to the University Senate in time for its implementation on October 1st.

4. Doctoral school education lasts eight semesters.

5. The grading period is the academic year.

6. The head of the doctoral school assigns the head of the scientific discipline to organize classes for doctoral students.

7. The doctoral school curriculum specifies in particular:

a) compulsory subjects and their hours;

b) the semester or year in which the course is taught;

c) the number of internships that the doctoral student must complete or participate in.

8. The detailed scope of requirements for a given course, including the requirements for passing the course, is determined by the academic teacher teaching the course and announced at the first class.

9. Classes included in the curriculum, conducted in the form of didactic classes, may be taught by individuals with at least a doctoral degree or its equivalent, who have scientific achievements in the field represented over the last 5 years.

10. Credits or examinations in a subject included in the curriculum are held during the credit and examination session.

11. Classes and assessments/examinations may be conducted in a foreign language, particularly at the request of the instructor or doctoral students, to the extent and under the conditions specified by the supervisor.

12. The following grading scale is used for assessments and examinations:

a) very good (5);

b) good plus (4.5);

c) good (4); d) satisfactory plus (3.5);

e) satisfactory (3);

f) unsatisfactory (2).

13. A negative grade, indicating failure to pass a course, is a failing grade.

14. All forms of coursework undertaken by a doctoral student in a given course, as provided for in the curriculum, conclude with an examination or a graded assessment. A doctoral student may not take an examination in a course for which they have not previously obtained the required credit.

15. If the doctoral student receives an unsatisfactory grade in the examination, they are entitled to a resit examination, which should be conducted by September 15th of the given academic year.

16. The duration of the internship, including those conducted in the form of teaching classes at the University or participating in their teaching, cannot exceed 60 teaching hours per year. The detailed duration of the internship is specified in the curriculum.

17. To complete the year, the following is required: a) the student's record book and periodic achievement sheets containing positive grades in the subjects covered by the curriculum:

1) the doctoral student's student record book and periodic achievement sheets containing positive grades in the subjects covered by the curriculum;

2) the IRP approved by the supervisor for first-year doctoral students, or a progress report on the implementation of the IRP approved by the supervisor for other doctoral students.

18. The head of the doctoral school awards credit for the year based on the documentation referred to in § 8, section 17.

19. The curriculum and individual research plans should be aligned with the learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK).

20. Completion of doctoral education occurs upon submission of the doctoral dissertation, along with a positive opinion from the supervisor, to the doctoral school office.

21. Completion of doctoral education is conditional upon completion of the curriculum and the IRP.

22. A doctoral student who intends to submit their doctoral dissertation before the scheduled deadline is required to complete the missing learning outcomes for the qualification at level 8 of the Polish Qualifications Framework (PRK).

23. The director issues a certificate of completion of doctoral education.

24. The process for awarding a doctoral degree shall be initiated upon application to the appropriate scientific discipline council by a person meeting the requirements specified in Article 186, paragraph 1, points 1-3 or Article 186, paragraph 2 of the Act.

§ 9. [Individual Research Plan and Mid-Term Evaluation]

1. The doctoral student, in consultation with the supervisor, develops an IRP project.

2. The IRP must include a proposed research topic and schedule, along with a deadline for preparing the doctoral dissertation.

3. The IRP should specify, in particular, the deadlines for:

1) the doctoral student to prepare and submit for publication or accept for publication at least one scientific publication in a peer-reviewed scientific journal or at least one scientific monograph or a chapter in such a monograph, listed in the current list of publishers or in the peer-reviewed proceedings of at least one international scientific conference;

2) participation in at least one national or international conference;

3) preparation and submission of a grant application to a national or foreign agency funding research through a competitive process;

4) completion of individual tasks specified in the schedule referred to in point 2, necessary for the preparation of the doctoral dissertation;

5) submission of the doctoral dissertation.

4.The prepared grant application referred to in § 9 section 3 item 3 may be submitted to a domestic or foreign agency financing scientific activities in a competitive procedure after obtaining the approval of the Vice-Dean for Science representing the relevant scientific discipline.

5. After receiving an opinion from the supervisor(s) and the assistant supervisor on the IRP project, the doctoral student shall submit it to the head of the doctoral school in time to allow for its approval within 12 months of the commencement of studies.

6. Failure to submit the IRP project by the deadline may result in removal from the list of doctoral students.

7. Within 14 days of the doctoral student's submission of the IRP project, after consulting the doctoral school's scientific council, the head of the doctoral school may:

a) accept the IRP project;

b) return the IRP project to the doctoral student for corrections or supplementation.

7. Deadlines for the completion of individual research tasks should be specified in months from the commencement date of doctoral school education.

8. The implementation of the IRP is subject to a mandatory mid-term evaluation after the end of the fourth semester of study, but no later than three months after the beginning of the fifth semester.

9. Mid-term evaluations are conducted by mid-term evaluation committees, appointed by the head of the doctoral school at the beginning of each fourth semester of the study cycle, separately for each scientific discipline in which the doctoral school is run. More than one mid-term evaluation committee may be appointed in each scientific discipline.

10. Vice-Deans for Research representing the relevant scientific disciplines submit a proposal for the composition of the mid-term evaluation committee to the head of the doctoral school.

11. The mid-term evaluation committee shall consist of three persons, including at least one person holding a postdoctoral degree or a professorship in the scientific discipline in which the doctoral dissertation is being prepared and employed outside the University. The chairperson of each committee is the Vice-Dean for Science representing the relevant scientific discipline within which the mid-term evaluation is taking place. In justified cases, the Vice-Dean for Science representing the relevant scientific discipline may designate another person to serve as chairperson of the mid-term evaluation committee.

12. A member of the mid-term evaluation committee may not be a person who, within the last five years:

1) has supervised four doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation, or

2) has supervised the dissertation preparation of at least two doctoral candidates who did not receive positive reviews referred to in Article 191, Section 1 of the Act. 13. A member of the mid-term evaluation committee employed outside the University is entitled to remuneration equal to 20% of a professor's salary.

14. The supervisor, in consultation with the Vice-Deans for Research representing the relevant scientific disciplines, sets the dates for the mid-term evaluation committee meetings for all doctoral students representing the scientific discipline within which the mid-term evaluation is taking place.

15. A doctoral student's supervisor may not be a member of the committee conducting the mid-term evaluation of the doctoral student under their supervision.

16. The supervisor may participate in the mid-term evaluation committee meeting as an observer.

17. The mid-term evaluation is conducted based on:

1) documentation confirming the completion of the IRP;

2) the supervisor's opinion regarding the doctoral student's academic development;

3) the doctoral student's self-report on the progress of the IRP and a discussion during which the doctoral student is asked questions regarding the completion of the IRP.

18. The doctoral student must submit the documentation referred to in § 9, section 17, to the Vice-Dean for Research representing the appropriate academic discipline by September 30th.

19. The mid-term evaluation ends with a positive or negative result. The mid-term evaluation committee adopts the evaluation by a majority vote.

20. With the doctoral student's consent, the committee chairperson prepares an audio recording for the purpose of preparing the minutes of the committee meeting. This recording is deleted by the Head of the Doctoral School at the end of the month in which:

1) the mid-term evaluation was conducted (applies to a doctoral student who received a positive evaluation),

2) the decision to remove the candidate from the list of doctoral students became final (applies to a doctoral student who received a negative evaluation).

21. Within seven days of the evaluation, the chairperson of the mid-term evaluation committee shall submit to the head of the doctoral school the minutes with a justification containing the results of the mid-term evaluation and the documentation referred to in § 9, section 17, along with the audio recording of the committee meeting.

22. A positive evaluation allows for further education and an increase in the scholarship amount.

23. A negative result of the mid-term evaluation results in the removal of the candidate from the list of doctoral students by the head of the doctoral school.

24. A request for reconsideration of the decision to remove a doctoral student from the doctoral school may be filed against the decision to remove the doctoral student from the doctoral school.

25. At the request of the supervisor, an internal committee consisting of the doctoral school head, the head of the relevant academic discipline, and a person holding a postdoctoral degree or the title of professor in the

discipline in which the doctoral dissertation is being prepared may conduct an assessment of the doctoral student's implementation of the IRP and the doctoral program at any stage of their education.

26. A negative assessment of the procedure referred to in § 9, section 24 results in removal from the list of doctoral students.

§ 10. [Rights of the doctoral student]

1. A person admitted to a doctoral school acquires the rights of a doctoral student upon taking the oath.

2. A doctoral student receives a doctoral student ID card issued in accordance with applicable regulations.

3. A doctoral student who has obtained a doctoral degree as a result of graduating from a doctoral school has the period of study at that school, but no longer than 4 years, included in the period of employment on which employee rights depend.

4. A doctoral student who has not completed their education at a doctoral school due to:

1) taking up employment as an academic teacher or researcher;

2) ceasing to provide doctoral education in a given discipline; as long as they have obtained a doctoral degree, but no longer than 4 years, included in the period of work on which employee rights depend.

5. A doctoral student has the right to:

1) the supervisor's academic supervision in the preparation of the doctoral dissertation;

2) submitting a request to the head of the doctoral dissertation to change the supervisor;

3) joining doctoral student organizations at the University;

4) receiving a doctoral scholarship under the terms specified in the Act;

5) vacation breaks not exceeding 8 weeks per year;

6) applying for accommodation in the University's student dormitory under the terms specified in separate regulations;

7) applying for accommodation for a spouse or child in the University's student dormitory under the terms specified in separate regulations;

8) using laboratories, research equipment and apparatus, library collections, and IT resources to the extent necessary to implement the curriculum, the IRP, and prepare the doctoral dissertation, under the terms specified in separate regulations;

9) support in preparing grant applications from the University administration;

10) undertaking research internships;

11) apply for scholarships for outstanding young scientists under the terms specified in separate regulations;

12) in justified cases, apply for an extension of the deadline for submitting a doctoral dissertation;

13) suspend education at the doctoral school under the terms specified in § 15 of these regulations.

6. Doctoral students at the Częstochowa University of Technology constitute the doctoral student self-government. The structure and principles of operation of the university's doctoral student council are specified in its regulations.

§ 11. [Doctoral Student Obligations]

1. Doctoral students are obligated to comply with the regulations, adhere to the ethical standards set forth in the Code of Ethics for Doctoral Students, and comply with copyright and related rights, as well as industrial property law.

2. Doctoral students are obligated to complete the curriculum and the IRP, participate in teaching activities within the doctoral school, and complete professional internships.

3. Doctoral students are obligated to have an electronic researcher ID (ORCID).

4. During their doctoral studies, doctoral students are obligated to prepare at least one application for a research project to a funding agency through a competitive process.

5. Doctoral students are obligated to participate in competitions supporting the domestic and international mobility of doctoral students.

6. The doctoral student is required to submit to the doctoral school office by September 15th documentation confirming the course of study, a professional internship credit card, and an annual report, along with the supervisor's opinion on the progress of work included in the IRP. A doctoral student admitted under the terms of § 7, section 2, item 2, submits a report for the duration of their education at the doctoral school.

7. The doctoral student is required to submit a declaration for the evaluation of the quality of their research activity.

8. The doctoral student is required to submit the data and information required for reporting in the Integrated Information System on Science and Higher Education "POL-on," in particular, information regarding employment as an academic teacher or researcher for the purpose of carrying out a research project.

9. The doctoral student is required to immediately notify the supervisor of their scientific achievements.

10. The doctoral student is required to comply with the internal rules and regulations that apply to them, in particular those regarding fire safety and occupational health and safety.

11. A doctoral student is obligated to immediately notify the supervisor of:

1) a change in name and address, as well as any other information required by the University;

2) taking up employment as an academic teacher and its scope;

3) obtaining a doctoral degree awarded by another authorized entity;

4) undertaking education at another doctoral school;

5) other circumstances that may affect their status or education at the doctoral school.

§ 12 [Supervisor and Assistant Supervisor]

1. Within one month of commencing their studies, a doctoral student shall submit an application to the head of the program for the appointment of a supervisor under whose supervision they will implement the IRP and prepare their doctoral dissertation.

2. An academic teacher at the Ph.D. may simultaneously supervise a maximum of three doctoral students at the doctoral school. An academic teacher who closely collaborates with the business community may supervise up to five doctoral students, including those enrolled in the "Implementation Doctorate" program, after consultation with the head of the doctoral school and the head of the scientific discipline.

3. The application referred to in paragraph 1 shall include:

1) the doctoral student's details: first name, last name, PESEL number, and, if missing, the number of a document confirming their identity;

2) a proposal of persons to serve as supervisors;

3) the consent of the persons referred to in paragraph 2;

4) a justification.

4. The supervisor decides on the appointment of the supervisor and is not bound by the doctoral student's request.

5. The supervisor may be a person holding:

1) the academic title of professor, or

2) the academic degree of habilitated doctorate, or

3) a person without a habilitated doctorate or the title of professor who is an employee of a foreign university or research institution, provided the board determines that this person has significant achievements in the scientific issues covered by the doctoral dissertation.

6. At the supervisor's request, the supervisor appoints an assistant supervisor. The assistant supervisor may be a person holding at least a doctoral degree.

7. A person cannot be appointed as a supervisor if, within the last 5 years, they have:

1) supervised 4 doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation, or

2) supervised the preparation of a doctoral dissertation by at least 2 doctoral candidates who did not receive positive reviews.

8. A person who has been subjected to a disciplinary penalty of deprivation of the right to perform supervisory duties, as referred to in Article 276, Section 1, Item 4 of the Act, also cannot be appointed as a supervisor.

9. A supervisor is obligated to:

1) support the doctoral student in their independent research;

2) establish an IRP with the doctoral student and oversee its implementation throughout the entire period of study at the doctoral school;

3) conduct a thematic doctoral seminar; 4

) guide the doctoral student's scientific development;

5) assessing the doctoral student's academic development in the form of a written opinion submitted to the supervisor along with the doctoral student's annual report;

6) reviewing all doctoral student requests regarding the course of their education, including requests for research internships and conferences;

7) notifying the supervisor of any lack of progress in completing the IRP;

8) supervising the doctoral student's doctoral dissertation;

9) verifying the doctoral student's academic achievements at the end of their education at the doctoral school.

10. The supervisors jointly and severally fulfill the obligations listed in paragraph 9.

11. In justified cases, the doctoral student may request a change of supervisor, supervisors, or assistant supervisor, which they submit to the supervisor along with a justification.

12. In justified cases, the supervisor may request a change of supervisor, supervisors, or assistant supervisor, which they submit to the supervisor along with a justification.

13. If the supervisor is on sabbatical leave or health leave, or if an unexpected event prevents proper supervision of the doctoral student, the supervisor shall request the Vice-Dean for Research representing the appropriate academic discipline to propose a second supervisor or an assistant supervisor.

14. The supervisor, after consulting the council, may change the supervisor.

§ 13 [Doctoral Scholarship]

1. A doctoral student who does not hold a doctoral degree receives a doctoral scholarship subject to paragraph 2.

2. The total period of receiving a doctoral scholarship at doctoral schools may not exceed four years.

3. The period referred to in paragraph 2 does not include the period of suspension of education at the doctoral school or the period of education at the doctoral school in the case referred to in Article 206, paragraph 2 of the Act.

4. The amount of the monthly doctoral scholarship is at least:

1) 37% of the professor's salary – up to the month in which the mid-term evaluation was conducted,

2) 57% of the professor's salary – after the month in which the mid-term evaluation was conducted.

5. The scholarship is non-repayable and is paid in monthly installments at the end of the month to the bank account indicated by the doctoral student.

6. During the period of suspension of education, the provisions on determining maternity benefits shall apply accordingly to determining the amount of the doctoral scholarship, except that the basis for calculating the benefit shall be understood as the amount of the monthly doctoral scholarship referred to in paragraph 4, payable on the date of submission of the suspension application. 7

. A doctoral student with a disability certificate, a disability degree certificate, or a certificate referred to in Articles 5 and 62 of the Act of August 27, 1997, on Vocational and Social Rehabilitation and Employment of Persons with Disabilities shall receive a doctoral scholarship in the amount increased by 30% of the amount indicated in paragraph 4, item 1, upon presentation of the relevant certificate.

8. A doctoral student who submits their doctoral dissertation earlier than the completion date specified in the education program shall receive a doctoral scholarship until the completion date, but for no longer than 6 months.

9. Removal of a doctoral student from the list of doctoral students at a doctoral school results in the cessation of payment of the doctoral scholarship:

1) on the first day of the month following the month in which the decision to remove the student becomes final (applies to doctoral students whose scholarship is financed by a subsidy from the relevant ministry);

2) on the day on which the decision to remove the student becomes final (applies to winners of the "Implementation Doctorate" competition).

10. A doctoral student receiving a doctoral scholarship is covered by mandatory retirement, disability, and accident insurance, pursuant to the terms specified in separate regulations.

§ 14 [Removals from the list of doctoral students]

1. The Head of Doctoral Studies shall remove a doctoral student from the list of doctoral students in the event of:

1) a negative mid-term evaluation;

2) failure to submit a doctoral dissertation by the deadline specified in the IRP;

3) withdrawal from studies;

4) failure to resume studies;

5) violation of the prohibition on studying at more than one doctoral school; 6) disciplinary penalty of expulsion from the University.

2. The Head of Doctoral Studies may remove a doctoral student from the list of doctoral students in the event of:

1) failure to submit an IRP by the deadline;

2) unsatisfactory progress in preparing the doctoral dissertation, based on a reasoned request from the supervisor;

3) failure to fulfill obligations arising from the regulations, the curriculum, and the IRP.

3. Removal from the list of doctoral students shall be effected by an administrative decision.

4. The decision referred to in paragraph 3 may be appealed for reconsideration.

§ 15 [Conditions for extending the deadline for submitting a doctoral dissertation]

1. At the request of the doctoral student, education is suspended for a period corresponding to the duration of maternity leave, leave on maternity leave terms, paternity leave, and parental leave, as defined in the Act of 26 June 1974 – Labor Code.

2. The supervisor may, at the request of the doctoral student, extend the deadline for submitting the doctoral dissertation established in the Institute of Physics, but by no longer than two years.

3. A request to extend the deadline for submitting the doctoral dissertation should include:

1) the doctoral student's details: first name, last name, academic discipline in which the doctoral student is pursuing their education, semester of study, and student record book number;

2) a justification, specifying the expected deadline for submitting the doctoral dissertation and indicating the progress of work related to the preparation of the doctoral dissertation.

4. The request must be accompanied by:

1) the supervisor's opinion;

2) documents justifying the extension of the deadline for submitting the doctoral dissertation.

5. The decision referred to in paragraph 2 may be appealed to the Vice-Rector for Science within 14 days of receipt of the decision.

§ 16 [Disciplinary Liability of Doctoral Students]

1. A doctoral student is subject to disciplinary liability for violating the regulations in force at the University and for an act demeaning the dignity of a doctoral student.

2. A doctoral student may not be punished simultaneously by the Rector and the Disciplinary Committee for the same act. 3. Disciplinary penalties include:

1) a warning;

2) a reprimand;

3) a reprimand with a warning;

4) suspension of certain doctoral student rights for a period of up to one year;

5) expulsion from the University.

4. The provisions of Article 307, paragraph 2, Articles 308–320 of the Act, and regulations issued pursuant to Article 321 of the Act shall apply accordingly to the disciplinary liability of doctoral students.

§ 17 [Method of Documenting the Course of Study]

1. The doctoral school documents the course of study.

2. Documentation of the doctoral school education process consists of:

1) documentation of the education process maintained in the University's IT system and/or in the doctoral student's student record book;

2) the doctoral student's personal file.

3. The doctoral student's personal file contains:

1) application – a questionnaire for admission to the doctoral school generated from the IRK system;

2) certified copies of diplomas from first-cycle and second-cycle studies or long-cycle master's studies;

3) statements of consent from the supervisor to perform the function;

4) consent to the processing of personal data for the recruitment process and for the education process at the doctoral school;

5) recruitment documentation;

6) documentation of the mid-term evaluation;

7) oath signed by the doctoral student;

8) documents confirming scientific activity;

9) IRP;

10) periodic achievement cards;

11) IRP implementation reports;

12) applications for an increase in the doctoral scholarship due to a disability certificate, along with attachments;

13) applications for the appointment or change of a supervisor;

14) applications to suspend the doctoral school education process;

15) applications for an extension of the deadline for submitting the doctoral dissertation, along with attachments;

16) the doctoral dissertation submitted at the end of the doctoral school education, along with a positive opinion from the supervisor;

17) certificate of completion of the doctoral school;

18) information on withdrawal from the doctoral school education;

19) decisions regarding the course of study at the doctoral school;

20) confirmation of personal receipt of documents or their delivery in another form;

21) applications for reconsideration of administrative matters;

22) objections by the doctoral student to the director's decisions.

4. Documentation may be maintained in IT systems in accordance with separate regulations.

5. Documentation of the educational process is collected and stored at the doctoral school's office, in accordance with applicable regulations.

§ 18[Presumption of Competence]

In matters not regulated by the Act, the University Statute, or these regulations, the Rector shall decide.

§ 19 [Implementation Doctorate]

A person participating in the "Implementation Doctorate" program receives a doctoral scholarship as part of the program. Detailed criteria and procedures for awarding doctoral scholarships under the "Implementation Doctorate" program are regulated by separate regulations.

§ 20 [External Doctorate]

A person applying for a doctoral degree externally shall submit an application to the scientific discipline council for the appointment of a supervisor before initiating the proceedings.

RESOLUTION No. 252/2023/2024

of the Senate of Czestochowa University of Technology

of 20 March 2024

on: adoption of the Regulations of the Doctoral School of Czestochowa University of Technology

1. The Senate of Czestochowa University of Technology, on the basis of art. 205 sec. 2 of the Act of 20 July 2018 - Law on Higher Education and Science (consolidated text: Journal of Laws of 2023, item 742, as amended) and § 22 sec. 1 item 2 of the Statute of Czestochowa University of Technology, in an open vote, adopted the Regulations of the Doctoral School of Czestochowa University of Technology, in accordance with the annex to this resolution.

2. Resolution No. 194/2022/2023 of the Senate of the Czestochowa University of Technology of 24 May 2023 on the adoption of the Regulations of the Doctoral School of the Czestochowa University of Technology shall cease to apply.

3. The resolution shall enter into force on 1 October 2024.

Chairman of the Senate
of the Czestochowa University of Technology
Rector
Prof. dr hab. inż. Norbert Sczygiol

Appendix to RESOLUTION No. 252/2023/2024 of the Senate of the Czestochowa University of Technology

Regulations of the Doctoral School of the Czestochowa University of Technology

§ 1 [Scope of the regulations]

The Regulations of the Doctoral School of the Czestochowa University of Technology define the organization of education in the doctoral school in the scope not regulated in the Act and the statute, and in particular:
1) the manner of functioning of the doctoral school;
2) the scope of duties of the head of the doctoral school;
3) the scope of rights and obligations of the doctoral student;
4) the manner of conducting the mid-term evaluation;
5) the manner of appointing and changing the supervisor, supervisors and auxiliary supervisor;
6) the conditions for extending the deadline for submitting a doctoral dissertation;
7) the manner of documenting the course of education;
8) the principles for granting doctoral scholarships.

§ 2
[Definitions]

The terms used in these regulations mean:
1) PhD student – PhD student studying at the Czestochowa University of Technology Doctoral School;
2) IRP – individual research plan;
3) director – director of the doctoral school;
4) supervisor – supervisor, supervisors or supervisor and auxiliary supervisor;
5) scientific discipline council – council appropriate for the scientific discipline within which education is conducted at the doctoral school;
6) council – scientific council of the doctoral school;
7) regulations – Regulations of the Czestochowa University of Technology Doctoral School;
8) statute – Statute of the Czestochowa University of Technology;
9) detailed recruitment rules – conditions and procedure of recruitment to the Czestochowa University of Technology Doctoral School, adopted by resolution of the Czestochowa University of Technology Senate;
10) doctoral school – the Czestochowa University of Technology Doctoral School for which these regulations have been adopted;
11) University or CUT – Czestochowa University of Technology;
12) Act – Act of 20 July 2018 – Law on Higher Education and Science.

§ 3
[General provisions]

1. Doctoral education prepares for obtaining a doctoral degree.
2. No fees are charged for doctoral education at the doctoral school.
3. The academic year at the doctoral school lasts from 1 October to 30 September and is divided into 2 semesters.
4. In the scope of all decisions concerning a doctoral student whose supervisor is the head, decisions are made by the vice-rector for science.
5. The doctoral school does not conduct teaching or research independently.

6. The direct superior of the doctoral student is the head of the scientific discipline within which the doctoral student is educated at the doctoral school.
7. In the event of discontinuation of doctoral education in a given scientific discipline, the University shall provide doctoral students preparing a doctoral dissertation in that scientific discipline with the opportunity to continue their education at another doctoral school in that scientific discipline, and in the event that the doctoral student is unable to undertake education – it shall cover the costs of the proceedings for awarding the doctoral degree in extramural mode

§ 4
[Establishment and organization of the doctoral school]

1. The doctoral school is established on the basis of the rector's order.
2. The doctoral school provides education in the scientific disciplines in which the University has the right to award the academic degree of doctor.
3. The rector, after seeking the opinion of the appropriate body of the doctoral student self-government, appoints a director who is directly responsible to the vice-rector for science for the current management of the doctoral school. The director represents one of the scientific disciplines in which education is conducted at the doctoral school.
4. The rector appoints a council, which is a consultative body for the director.
5. The doctoral school has an administrative office ensuring its functioning in the main building of the University.

§ 5
[Head of the doctoral school]

1. The head of the doctoral school:
1) supervises the entire functioning of the doctoral school, including the correctness and quality of the education process and scientific supervision and the method of conducting the mid-term evaluation;
2) performs organizational and administrative functions in the scope of the functioning of the doctoral school;
3) makes decisions in all matters concerning the doctoral school and doctoral students studying at the doctoral school, not reserved for the competences of the bodies and persons holding managerial positions at the University;
4) applies to the appropriate single-person and collegial bodies of the University with applications in all matters concerning the doctoral school;
5) performs other activities provided for by law, provisions of the University's statute and resolutions and orders of the University's bodies;
6) makes decisions on the property and financial management of the doctoral school to the extent determined by the rector within the framework of the power of attorney granted;
7) considers doctoral students' objections in all matters concerning the doctoral school, not reserved for the competence of bodies or other persons performing managerial functions at the University;
8) considers applications for doctoral students in all matters concerning the doctoral school submitted to the Doctoral Student Ombudsman;
9) issues administrative decisions in individual cases of candidates and doctoral students, including refusal of admission to the doctoral school, removal from the list of doctoral students and in cases regulated in these regulations or in separate provisions;
10) prepares a draft of specific recruitment rules and submits it for opinion to the council and the university doctoral student council;
11) prepares a draft of the education program and submits it for opinion to the council and the university doctoral student council;

12) appoints a doctoral student's supervisor after the council has issued an opinion on the candidacy;
13) cooperates with the heads of the scientific disciplines in which education is provided at the doctoral school or with persons indicated by them, in the scope of:
a) ensuring conditions for conducting education at the doctoral school, including professional internships in the form of conducting classes or participating in their conducting, in the amount not exceeding 60 teaching hours per year,
b) ensuring conditions for conducting scientific activity by doctoral students,
c) conducting internships and research by doctoral students in scientific institutions outside the University, including supporting grant activity and domestic and international mobility of doctoral students,
d) developing a draft curriculum for the doctoral school,
e) cooperation with the socio-economic environment in the scope of doctoral student education,
f) determining the staffing of classes as part of the curriculum;
14) decides to extend the deadline for submitting the doctoral dissertation specified in the IRP;
15) cooperates with the university doctoral student council;
16) supervises the correct, reliable and timely entry, updating, archiving and deletion of data concerning the doctoral school in the Integrated Information System on Science and Higher Education "POL-on";
17) supervises the collection of documentation of the course of education;
18) supervises the preparation of materials for the purposes of evaluating the doctoral school;
19) prepares an annual report on the functioning of the doctoral school and submits it to the rector by 30 November;
20) considers doctoral students' objections, including applications for reconsideration of the case;

2. At the request of the head, the rector may appoint one deputy head, whose scope of duties and competences is determined by the rector.

§ 6
[Scientific council of the doctoral school]

1. The council is appointed by the rector.
2. The council is established by the head.
3. The council is composed of:
1) the head, acting as chairman;
2) heads of scientific disciplines in which the doctoral school is run or one person indicated by them who has at least the academic degree of a postdoctoral degree and current scientific achievements in the scientific discipline within which education is conducted at the doctoral school;
3) a representative of doctoral students delegated by the university doctoral council;
4) a secretary indicated by the head, without the right to vote.
4. The council constitutes an advisory body for the head.
5. The council is in particular responsible for the evaluation of the education program at the doctoral school.
6. The council's tasks include:
1) annual review and issuing opinions on changes to education programs;
2) issuing opinions on changes to the regulations;
3) issuing opinions on changes in detailed recruitment criteria;
4) issuing opinions on the appointment/change of the supervisor;
5) expressing opinions on other matters presented by the head.

7. The council deliberates at meetings convened by the head.
8. The head decides on the method and procedure of the council meetings.

9. The Council presents its positions in the form of resolutions adopted by a simple majority vote.

§ 7
[Recruitment to the doctoral school]

1. Recruitment to the doctoral school shall be conducted through an open competition on the principles specified in the resolution of the Senate on the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology.
2. Recruitment to the doctoral school shall be conducted in the following manner:
1) regular, enabling the commencement of education in the doctoral school on 1 October;
2) special, enabling the commencement of education in the doctoral school twice a year outside the established dates, related to the results of competitions for places in which the doctoral scholarship is financed from sources other than those originating from the funds indicated in art. 409 of the Act.
3. The limit of places for the first year of education in the doctoral school for regular recruitment shall be established by the rector.
4. Doctoral students admitted under the special recruitment referred to in par. 2 item 2 shall not be charged to the admission limits established by the rector in accordance with par. 3.
5. A person who holds a professional title of Master of Science, Master of Science in Engineering or equivalent, or a person referred to in art. 186 sec. 2 of the Act, may be admitted to a doctoral school.
6. The draft of detailed recruitment rules shall be prepared by the director, submitted for opinion to the council and the university doctoral student council, and approved by the Senate of the University.
7. The director, in consultation with the directors of scientific disciplines, shall appoint recruitment committees, separately for each of the scientific disciplines within which recruitment to the doctoral school is conducted.
8. Each recruitment committee shall consist of:
1) the director, acting as the chairman;
2) the director of the scientific discipline in which the recruitment procedure to the doctoral school is conducted or a person indicated by him;
3) two persons holding the title of professor or at least the academic degree of a postdoctoral degree indicated by the director of the scientific discipline within which recruitment is conducted;
4) a representative of the doctoral student self-government;
5) secretary, indicated by the manager.

9. The recruitment rules, the deadline and place for submitting documents, and the deadline and place for conducting the recruitment procedure are made public by the manager on the University's website and in the administrative office of the doctoral school.
10. Candidates with disabilities or chronic diseases are provided with assistance and facilities in the recruitment process according to their individual needs. The Rector's Representative for People with Disabilities determines the form of assistance in the recruitment process individually for each candidate.
11. In the case of a person applying to the doctoral school who is an employee of the University, the consent of the Rector is required.
12. A person employed at the University may be admitted to the doctoral school provided that the number of full-time positions is reduced to 0.5 resulting from the need to carry out education and conduct scientific research.
13. A doctoral student is admitted to the doctoral school by entering them on the list of doctoral students by the manager.
14. Refusal of admission to the doctoral school is made by way of an administrative decision. The decision may be appealed for reconsideration.
15. The recruitment results are public.
16. A doctoral student may only be a doctoral student at one doctoral school at a time.

17. A doctoral student who studied at another doctoral school may begin education at the Doctoral School of the Czestochowa University of Technology by transfer after meeting the following conditions:
1) vacancies;
2) convergence of the education program he/she is pursuing with the program implemented at the doctoral school within the scientific discipline in which the doctoral dissertation will be prepared;
3) possibility of implementing the research topic based on the University's staff resources and research equipment;
4) completion of the settlement period at the previous doctoral school and the possibility of continuing the research provided for in the previous IRP at CUT.

18. The consent to transfer, together with the specification of program differences, is made by the head after seeking the opinion of the head of the scientific discipline and after familiarizing himself/herself with the documentation of the previous course of education and the advancement of the IRP implementation.

§ 8
[Education at the doctoral school]

1. Doctoral education at the doctoral school prepares for obtaining the doctoral degree and is conducted on the basis of the education program and the IRP.
2. The education program is established by the Senate of the University at the request of the director. The establishment of the education program requires seeking the opinion of the council and the university doctoral council. In the event of an ineffective expiry of the period specified in the statute, the requirement to seek the opinion of the university doctoral council is considered to have been met.
3. The education program is subject to annual evaluation by the council. If changes to the education programs are necessary, the director prepares a new draft of the education program and, after receiving the opinion of the council and the university doctoral council, submits it to the Senate of the University, in a time that allows it to begin to be in force from 1 October.
4. Doctoral education at the doctoral school lasts 8 semesters.
5. The settlement period is the academic year.
6. The director assigns the head of the scientific discipline to organize classes for doctoral students.
7. The doctoral school education program specifies in particular:
1) compulsory subjects and their number of hours;
2) semester or year in which the subject is taught; 3) number of internships that the doctoral student should complete or participate in.
8. The detailed scope of requirements for a given subject, including the conditions for passing the subject, is determined by the academic teacher conducting the classes and announced at the first class.
9. Classes covered by the education program carried out in the form of didactic classes conducted on-site or using distance learning techniques may be conducted by persons with at least a doctoral degree or equivalent, with scientific achievements in the field of the represented scientific discipline for the last 5 years.
10. Credits or exams in the subject provided for in the education program take place during the credit and examination session.
11. Classes and credits/exams may be conducted in a foreign language, in particular at the request of the teacher conducting the classes or doctoral students, to the extent and on the terms specified by the head of the program.
12. The following grading scale is used for credits and exams:
1) very good (5);
2) good plus (4.5);

3) good (4);
4) satisfactory plus (3.5);
5) satisfactory (3);
6) unsatisfactory (2).
13. A negative grade indicating failure to pass a subject is an unsatisfactory grade.
14. All forms of classes in a given subject implemented by the doctoral student, provided for in the education program, end with an exam or a graded credit. The doctoral student may not take an exam in a subject in which he or she did not previously obtain the required credit.
15. In the event of obtaining an unsatisfactory grade in the exam, the doctoral student is entitled to a repeat exam, which should be conducted by September 15 of the given academic year.
16. The amount of professional practice, including those implemented in the form of conducting didactic classes at the University or participating in conducting them, may not exceed 60 teaching hours per year.
17. The condition for crediting the year is to submit to the director by 15 September of the given academic year:
1) documentation confirming the course of education, a professional internship credit card;
2) IRP with a positive opinion from the supervisor for first-year doctoral students or a progress report on the implementation of the IRP with a positive opinion from the supervisor for other doctoral students. 1
8. The director credits the year based on the documentation referred to in § 8 section 17 and the credit reports generated in the university student service system (USSS) provided by the teachers.
19. The education program and IRP should be adequate to the learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PQF).
20. The completion of education at the doctoral school takes place at the time of submitting the doctoral dissertation together with a positive opinion from the supervisor to the doctoral school office.
21. The condition for completing education at the doctoral school is the completion of the education program and IRP.
22. A doctoral student who intends to submit a doctoral dissertation before the planned deadline is required to supplement the missing learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PQF).
23. The director issues a certificate of completion of education at the doctoral school.
24. The procedure for awarding the academic degree of doctor shall be initiated upon the application of a person meeting the requirements specified in art. 186 sec. 1 items 1-3 or art. 186 sec. 2 of the Act addressed to the appropriate scientific discipline council.

§ 9
[Individual research plan and mid-term evaluation]

1. The doctoral student, in consultation with the supervisor, prepares an IRP project.
2. The IRP must include a proposed topic and schedule for conducting research together with the deadline for submitting the doctoral dissertation at the end of education at the doctoral school.
3. The IRP should specify in particular the deadlines for:
1) the preparation by the doctoral student and sending or accepting for printing at least one scientific publication in a peer-reviewed scientific journal or at least one scientific monograph or a chapter in such a monograph, listed in the current list of publishers or in peer-reviewed materials from at least one international scientific conference;
2) participation in at least one national or international conference;
3) preparation of a grant application to the agency financing scientific activity in a competition;
4) implementation of individual tasks provided for in the schedule referred to in par. 2, necessary to prepare the doctoral dissertation;
5) submission of the doctoral dissertation.

4. The prepared grant application referred to in § 9 par. 3 item 3 may be submitted to a domestic or foreign agency financing scientific activity in a competition after obtaining the approval of the head of the relevant scientific discipline.
5. After receiving the opinion of the supervisor on the IRP project, the doctoral student shall submit it to the supervisor in a timely manner that will allow for its acceptance before the expiry of 12 months from the commencement of education.
6. Failure to submit the IRP project on time may result in removal from the list of doctoral students.
7. The deadlines for the implementation of individual research tasks should be specified in months from the date of commencement of education at the doctoral school.
8. The implementation of the IRP is subject to a mandatory mid-term evaluation after the end of the fourth semester of education, but no later than 3 months from the commencement of the fifth semester.
9. The mid-term evaluation is conducted by mid-term evaluation committees, appointed by the supervisor at the beginning of each fourth semester of the education cycle, separately for each of the scientific disciplines in which the doctoral school is conducted. More than one mid-term evaluation committee may be appointed in each scientific discipline.
10. The heads of scientific disciplines submit to the supervisor a proposal for the composition of the mid-term evaluation committee.
11. The mid-term evaluation committee shall consist of 3 persons, including at least 1 person holding the title of habilitated doctor or professor in the scientific discipline in which the doctoral dissertation is being prepared, employed outside the University. The chairperson of each committee shall be the head of the scientific discipline within which the mid-term evaluation takes place. In justified cases, the head of the scientific discipline may designate another person to act as the chairperson of the mid-term evaluation committee.
12. A person who, within the last 5 years:
1) was the supervisor of 4 doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation result or
2) supervised the preparation of a dissertation by at least 2 persons applying for the degree of doctor who did not receive positive reviews referred to in art. 191 sec. 1 of the Act cannot be a member of the mid-term evaluation committee.
13. A person who is a member of the mid-term evaluation committee and is employed outside the University is entitled to remuneration in the amount of 20% of the professor's remuneration.
14. In consultation with the heads of scientific disciplines, the director sets the dates of the mid-term evaluation committee meetings for all doctoral students representing the scientific discipline within which the mid-term evaluation is taking place.
15. The doctoral student's supervisor cannot be a member of the committee conducting the mid-term evaluation of the doctoral student they supervise.
16. The director may participate in the mid-term evaluation committee meeting as an observer.
17. The mid-term evaluation is carried out on the basis of:
1) documentation confirming the implementation of the IRP;
2) the supervisor's opinion on the doctoral student's scientific development;
3) the doctoral student's self-report on the progress of the IRP implementation and the discussion, during which the doctoral student is asked questions regarding the implementation of the IRP.
18. The documentation referred to in § 9 sec. 17 the doctoral student shall submit to the head of the relevant scientific discipline by 30 September.
19. The mid-term evaluation ends with a positive or negative result. The mid-term evaluation committee adopts the evaluation by a majority vote.
20. With the doctoral student's consent, the chair of the mid-term evaluation committee shall prepare an audio recording in order to prepare the minutes of the committee meeting.
21. Within 7 days of conducting the evaluation, the chair of the mid-term evaluation committee shall submit to the head the minutes together with the justification containing the results of the mid-

term evaluation and the documentation referred to in § 9 sec. 17 together with the audio recording of the committee meeting.
22. This recording shall be deleted by the head at the end of the month in which:
1) a mid-term evaluation has been conducted (applies to a doctoral student who received a positive evaluation);
2) the decision to strike off has become final (applies to a doctoral student who received a negative evaluation).
23. A positive evaluation enables further education and an increase in the amount of the scholarship.
24. A negative result of the mid-term evaluation results in striking off the list of doctoral students by the supervisor.
25. A request for reconsideration of the decision to strike off issued by the supervisor may be filed.
26. At the supervisor's request, an internal committee consisting of the supervisor, the supervisor of the relevant scientific discipline and a person with the degree of habilitated doctor or the title of professor in the discipline in which the doctoral dissertation is being prepared may conduct an evaluation of the implementation of the IRP and the education program by the doctoral student at any stage of education.
27. A negative evaluation of the procedure referred to in § 9 section 24 results in striking off from the list of doctoral students.

§ 10
[Rights of doctoral students]

1. A person admitted to a doctoral school acquires the rights of a doctoral student upon taking the oath.
2. A doctoral student receives a doctoral student ID card issued in accordance with applicable regulations.
3. A doctoral student who has obtained a doctoral degree as a result of completing a doctoral school has the period of education at that school, however not longer than 4 years, included in the period of work on which employee rights depend.
4. A doctoral student who has not completed education at a doctoral school due to:
1) taking up employment as an academic teacher or researcher;
2) ceasing to educate doctoral students in a given scientific discipline; the period of education at the doctoral school, however not longer than 4 years, included in the period of work on which employee rights depend, provided that they have obtained a doctoral degree.
5. A doctoral student has the right to:
1) scientific supervision by a supervisor in the scope of preparing a doctoral dissertation;
2) submitting an application to the head of the doctoral school to change the supervisor;
3) association in PhD student organizations at the Czestochowa University of Technology;
4) receiving a PhD scholarship on the principles specified in the Act;
5) vacation breaks not exceeding 8 weeks per year;
6) applying for accommodation in the University's student dormitory on the terms specified in separate regulations;
7) applying for accommodation for a spouse or child in the University's student dormitory on the terms specified in separate regulations;
8) use of laboratories, scientific and research equipment and apparatus, as well as library collections and IT resources to the extent necessary to implement the education program, IRP and prepare a doctoral dissertation, on the principles established in separate regulations;
9) support in preparing grant applications from the University's administration;
10) undertaking scientific internships;
11) applying for a scholarship for outstanding young scientists on the principles specified in separate regulations;

12) in justified cases, applying for an extension of the deadline for submitting a doctoral dissertation;
13) suspension of education in the doctoral school on the principles specified in § 15 of these regulations. 6. Doctoral students of the Czestochowa University of Technology form the university doctoral council. The structure and principles of operation of the university doctoral council are specified in its regulations.

§ 11
[Obligations of doctoral students]

1. The doctoral student is obliged to act in accordance with the regulations, observe ethical standards included in the doctoral student code of ethics and observe copyright and related rights, as well as industrial property law. 2.
The doctoral student is obliged to complete the education program and IRP, participate in didactic classes conducted as part of the doctoral school and complete professional internships.
3. The doctoral student is obliged to have an electronic researcher identifier ORCID (Open Researcher and Contributor ID).
4. During education at the doctoral school, the doctoral student is obliged to prepare at least one application for the implementation of a research project to the agency financing scientific activity through a competition.
5. The doctoral student is obliged to participate in competitions supporting domestic and international mobility of doctoral students.
6. The doctoral student is obliged to submit to the doctoral school office by September 15 documentation confirming the course of education, a professional internship credit card and an annual report together with the supervisor's opinion on the progress of work included in the IRP. a doctoral student accepted under the principles set out in § 7 sec. 2 item 2 shall submit a report for the period of education at the doctoral school.
7. The doctoral student is obliged to submit a declaration for the purposes of evaluating the quality of scientific activity.
8. The doctoral student is obliged to submit data and information necessary for reporting in the Integrated Information System on Science and Higher Education "POL-on", and in particular about employment as an academic teacher or researcher for the purpose of carrying out a research project.
9. The doctoral student is obliged to immediately notify the supervisor of his/her scientific achievements.
10. The doctoral student is obliged to comply with the internal rules and regulations that apply to him/her, in particular fire protection and occupational health and safety.
11. The doctoral student is obliged to immediately notify the supervisor of:
1) change of name and address, as well as change of other data required by the University;
2) taking up employment as an academic teacher at another university and its scope;
3) obtaining a doctoral degree awarded by another authorized entity;
4) undertaking education at another doctoral school;
5) other circumstances that may affect their status or education at the doctoral school.

§ 12
[Supervisor and auxiliary supervisor]

1. Within 2 months of undertaking education, the doctoral student shall submit to the head an application for the appointment of a supervisor under whose supervision they will implement the IRP and prepare the doctoral dissertation.
2. An academic teacher of the CUT may simultaneously be the supervisor of a maximum of 3 doctoral students at the doctoral school. In the case of an academic teacher who closely cooperates with the economic environment, it is permissible to act as a supervisor for 5 doctoral students,

including those implemented as part of the "Implementation Doctorate" program, after consultation with the head and head of the scientific discipline.
3. The application referred to in paragraph 1, includes:
1) data of the doctoral student: first name, last name, PESEL number, and in the absence thereof – the number of the document confirming the identity;
2) proposal of persons to perform the function of the supervisor;
3) consent of persons referred to in point 2;
4) justification.

4. The director makes the decision on appointing the supervisor and is not obliged by the doctoral student's application.
5. The supervisor may be a person with:
1) the academic title of professor or
2) the academic degree of habilitated doctor or
3) a person who does not have the degree of habilitated doctor or the title of professor, who is an employee of a foreign university or scientific institution, if the scientific discipline council considers that this person has significant achievements in the scope of scientific issues covered by the doctoral dissertation.

6. At the request of the supervisor, the director appoints an auxiliary supervisor. The auxiliary supervisor may be a person with at least the academic degree of doctor.
7. A person cannot be appointed as a supervisor if, within the last 5 years:
1) he/she was the supervisor of 4 doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation result, or
2) he/she supervised the preparation of a doctoral dissertation by at least 2 persons applying for a doctoral degree who did not receive positive reviews.

8. A person who has been punished with a disciplinary penalty of deprivation of the right to perform the tasks of a supervisor, referred to in art. 276 sec. 1 item 4 of the Act, cannot be appointed as a supervisor either.
9. The supervisor is obliged to:
1) support the doctoral student in independent research work;
2) establish an IRP with the doctoral student and supervise its implementation throughout the period of education at the doctoral school;
3) conduct a thematic doctoral seminar;
4) guiding the scientific development of the doctoral student;
5) assessing the scientific development of the doctoral student in the form of a written opinion submitted to the supervisor together with the doctoral student's annual report;
6) giving opinions on all applications of the doctoral student concerning the course of education, including applications for research internships, conferences;
7) notifying the supervisor of the lack of progress in the implementation of the IRP
8) supervising the doctoral dissertation prepared by the doctoral student;
9) verifying the doctoral student's scientific achievements at the stage of completing education at the doctoral school.

10. Supervisors jointly and severally fulfill the obligations specified in par. 9.
11. In justified cases, the doctoral student may apply for a change of supervisor, supervisors or auxiliary supervisor, which he/she submits together with a justification to the supervisor.
12. In justified cases, the supervisor may apply for a change of supervisor, supervisors or auxiliary supervisor, which he/she submits together with a justification to the supervisor.
13. In the event that the supervisor is on academic leave or health leave, or an unforeseen circumstance occurs that prevents proper supervision of the doctoral student, the supervisor shall

request the head of the scientific discipline to indicate a proposal for a second supervisor or an auxiliary supervisor.
14. After seeking the opinion of the council, the supervisor may change the supervisor.

§ 13
[Doctoral scholarship]

1. A doctoral student who does not hold an academic doctoral degree shall receive a doctoral scholarship subject to par. 2.
2. The total period of receiving a doctoral scholarship in doctoral schools may not exceed 4 years.
3. The period referred to in par. 2 does not include the period of suspension of education in the doctoral school and the period of education in the doctoral school in the case referred to in art. 206 par. 2 of the Act.
4. The amount of the monthly doctoral scholarship is at least:
1) 37% of the professor's salary - until the month in which the mid-term evaluation was conducted,
2) 57% of the professor's salary - after the month in which the mid-term evaluation was conducted.
5. The scholarship is non-refundable and is paid in monthly installments at the end of the month to the bank account indicated by the doctoral student, for the duration of the academic year.
6. During the period of suspension of education, the provisions on determining the maternity benefit shall apply accordingly to determine the amount of the doctoral scholarship, with the provision that the basis for calculating the benefit shall be understood as the amount of the monthly doctoral scholarship referred to in par. 4, due on the day of submitting the application for suspension.
7. A doctoral student who has a certificate of disability, a certificate of the degree of disability or a certificate referred to in art. 5 and art. 62 of the Act of 27 August 1997 on vocational and social rehabilitation and employment of disabled persons, receives a doctoral scholarship in the amount increased by 30% of the amount indicated in paragraph 4, point 1, after submitting an appropriate decision.
8. A doctoral student who submitted a doctoral dissertation earlier than the date of completion of education provided for in the education program receives a doctoral scholarship until the day on which the deadline for completion of education expires, but no longer than for 6 months.
9. Removing a doctoral student from the list of doctoral students of a doctoral school results in the cessation of payment of the doctoral scholarship:
1) on the first day of the month following the month in which the decision on removal became final (applies to doctoral students whose scholarship is financed from a subsidy from the relevant ministry);
2) on the day on which the decision on removal became final (applies to winners of the "Implementation doctorate" competition).
10. A doctoral student receiving a doctoral scholarship is covered by mandatory retirement and disability insurance and accident insurance, on the principles specified in separate regulations.
11. A doctoral scholarship is not available to a doctoral student whose education at a doctoral school involves the obligation to be employed by the entity running the doctoral school:
1) on the basis of an employment contract;;
2) with a salary that exceeds the salary of a professor.

§ 14
[Deleting from the list of doctoral students]

1. The head of the doctoral school deletes a doctoral student from the list of doctoral students in the event of:
1) a negative result of the mid-term evaluation;
2) failure to submit a doctoral dissertation by the deadline specified in the IRP;
3) withdrawal from education;

4) failure to start education;
5) violating the ban on education at more than one doctoral school;
6) being punished with a disciplinary penalty of expulsion from the doctoral school.

2. The Director may remove a doctoral student from the list of doctoral students in the event of:
1) failure to submit the IRP within the specified deadline;
2) unsatisfactory progress in preparing the doctoral dissertation, based on a justified request from the supervisor;
3) failure to comply with the obligations resulting from the regulations, the education program and the IRP.

3. Removal from the list of doctoral students shall be effected by means of an administrative decision.
4. A request for reconsideration of the case may be filed against the decision referred to in paragraph 3.

§ 15
[Conditions for extending the deadline for submitting a doctoral dissertation]

1. Education, at the request of the doctoral student, shall be suspended for a period corresponding to the duration of maternity leave, leave on maternity leave conditions, paternity leave and parental leave, specified in the Act of 26 June 1974 - the Labor Code.
2. The director may, at the request of the doctoral student, extend the deadline for submitting a doctoral dissertation set in the IRP, but no longer than by 2 years.
3. The application for extension of the deadline for submission of the doctoral dissertation should include:
1) the doctoral student's data: first name, last name, PESEL number, and in the absence thereof, the number of the document confirming the identity, the semester in which the doctoral student is undergoing education and the album number;
2) justification together with the specification of the expected deadline for submission of the doctoral dissertation and an indication of the level of advancement of work related to the preparation of the doctoral dissertation.
4. The application shall be accompanied by:
1) the supervisor's opinion;
2) documents justifying the extension of the deadline for submission of the doctoral dissertation. 5. The decision referred to in par. 2 may be appealed to the Vice-Rector for Science within 14 days from the date of receipt of the decision.

§ 16
[Disciplinary liability of doctoral students]

1. A doctoral student is subject to disciplinary liability for violating the regulations in force at the University and for an act detrimental to the dignity of a doctoral student.
2. A doctoral student cannot be punished simultaneously by the rector and the disciplinary committee for the same act.
3. Disciplinary penalties include:
1) admonition;
2) reprimand;
3) reprimand with warning;
4) suspension of specific doctoral student rights for a period of up to 1 year;
5) expulsion from the University.

4. The provisions of Art. 307 sec. 2, Art. 308-320 of the Act and the provisions issued pursuant to Art. 321 of the Act shall apply accordingly to the disciplinary liability of doctoral students.

§ 17
[Method of documenting the course of education]

1. The doctoral school documents the course of education.
2. The documentation of the course of education at the doctoral school consists of:
1) documentation of the course of education kept in the University's computer system and/or in the doctoral student's index;
2) the doctoral student's personal file.

3. The doctoral student's personal file contains:
1) application - questionnaire for admission to the doctoral school generated from the IRK system;
2) copy of diplomas of completion of first and second cycle studies or uniform master's studies, certified as true copies;
3) statements of the supervisor expressing consent to perform the function;
4) consent to the processing of personal data for the recruitment process and for the education process at the doctoral school;
5) recruitment procedure documentation;
6) documentation from the mid-term evaluation;
7) oath certificate signed by the doctoral student;
8) documents confirming scientific activity;
9) IRP;
10) periodic achievement cards;
11) reports on the implementation of the IRP;
12) applications for an increase in the doctoral scholarship in connection with a disability certificate, together with attachments;
13) applications for the appointment or change of a supervisor;
14) applications for the suspension of the doctoral school education process;
15) applications for an extension of the deadline for submitting a doctoral dissertation, together with attachments;
16) a doctoral dissertation submitted at the end of doctoral school education, together with a positive opinion from the supervisor;
17) a certificate of completion of doctoral school;
18) information on withdrawal from doctoral school education;
19) decisions regarding the course of education at the doctoral school;
20) confirmation of personal receipt of documents or their delivery in another form;
21) applications for reconsideration of administrative matters;
22) objections of the doctoral student to the decisions of the head of the doctoral school.
4. Documentation may be kept in IT systems according to separate regulations.
5. Documentation of the education process is collected and stored at the seat of the doctoral school, in accordance with applicable regulations.

§ 18
[Presumption of competence]

In matters not regulated by the Act, the University Statute or these regulations, the Rector shall decide.

§ 19
[Implementation doctorate]

A person participating in the "Implementation doctorate" program receives a doctoral scholarship as part of the program. Detailed criteria and procedure for awarding a doctoral scholarship as part of the "Implementation doctorate" program are regulated by separate regulations.

§ 20
[External doctorate]

A person applying for an academic doctorate in external mode shall, before initiating the proceedings, submit an application to the scientific council of the discipline for the appointment of a supervisor.

Resolution No. 25/2025
of the Senate of Częstochowa University of Technology of March 19, 2025

regarding: the adoption of the Regulations of the Doctoral School of Częstochowa University of Technology

1. The Senate of Częstochowa University of Technology, pursuant to Article 205 section 2 of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2024, item 1571, as amended) and § 22 section 1 item 2 of the Statute of Częstochowa University of Technology, in an open vote, adopted the Regulations of the Doctoral School of Częstochowa University of Technology, in accordance with the annex to this resolution.

2. Resolution No. 252/2023/2024 of the Senate of Częstochowa University of Technology dated June 26, 2019 on the adoption of the Regulations of the Doctoral School of Częstochowa University of Technology shall cease to apply.

2. This resolution comes into force on the date of its adoption, with effect from 1 October 2021.

Rector

Appendix
Resolution No. 25/2025 of the Senate of Częstochowa University of Technology

Doctoral School Regulations Częstochowa University of Technology

§ 1. [Scope of the Regulations]

The Doctoral School Regulations define the organization of education at the Doctoral School in matters not regulated by the Act and the Statute, in particular:

1. the manner of operation of the Doctoral School;

2. the scope of responsibilities of the Head of the Doctoral School;

3. the scope of rights and obligations of the Doctoral Student;

4. the procedure for conducting the mid-term evaluation;

5. the procedure for appointing and changing the supervisor, supervisors, or auxiliary supervisor;

6. the conditions for extending the deadline for submitting a doctoral dissertation;

7. the procedure for documenting the course of education;

8. the principles for awarding doctoral scholarships.

§ 2. [Definitions]

The terms used in these Regulations mean:

1. doctoral student – a doctoral student studying at the Doctoral School;

2. IRP – individual research plan;

3. Head of Department – the head of the doctoral school;

4. Supervisor – the supervisor or supervisors if more than one supervisor is appointed;

5. Scientific Discipline Council – the council responsible for the discipline within which education is provided at the doctoral school;

6. Council – the scientific council of the doctoral school;

7. Regulations – these regulations;

8. Statute – the Statute of the Częstochowa University of Technology;

9. Detailed Recruitment Rules – adopted by the resolution of the Senate of the Częstochowa University of Technology on the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology;

10. Doctoral School – the doctoral school of the Częstochowa University of Technology for which these regulations have been adopted;

11. University or PCz – Częstochowa University of Technology;

12. Act – Act of July 20, 2018 – Law on Higher Education and Science .

§ 3. [General Provisions]

1. Doctoral education prepares students for the award of a doctoral degree.

2. No fees are charged for doctoral education at the doctoral school.

3. The academic year at the doctoral school runs from October 1 to September 30 and is divided into two semesters.

4. All decisions concerning doctoral students whose supervisor is the head of the doctoral school are made by the Vice-Rector for Research.

5. The doctoral school does not conduct teaching or research independently.

6. In the event of discontinuation of doctoral education in a given scientific discipline, the University shall provide doctoral students preparing a doctoral dissertation in this scientific discipline with the opportunity to continue their education at another doctoral school in this scientific discipline, and if the doctoral student is unable to continue their education, it shall cover the costs of the proceedings for awarding the doctoral degree in extramural mode.

§ 4. [Establishment and Organization of the Doctoral School]

1. The doctoral school is established pursuant to a decree of the Rector.

2. The doctoral school provides education in disciplines in which the University has the authority to award doctoral degrees.

3. The Rector, after consulting the appropriate body of the doctoral student self-government, appoints a director who reports directly to the Vice-Rector for Research for the ongoing management of the doctoral school. The director represents one of the disciplines in which education is provided at the doctoral school.

4. The Rector appoints the doctoral school's scientific council, which serves as a consultative body for the head of the doctoral school.

5. The doctoral school has an administrative office ensuring its operation in the main building of the Częstochowa University of Technology.

§ 5. [Head of the Doctoral School]

1. The Head of the Doctoral School:

1) supervises the overall operation of the Doctoral School, including the proper and quality implementation of the educational process, academic supervision, and the procedure for conducting the mid-term evaluation;

2) performs organizational and administrative functions within the operation of the Doctoral School;

3) makes decisions on all matters concerning the Doctoral School and doctoral students studying at the Doctoral School, not reserved for the competence of the governing bodies and persons holding managerial positions at the University;

4) submits proposals to the appropriate individual and collegial bodies of the University on all matters concerning the Doctoral School;

5) performs other activities specified by law, the provisions of the University's statute, and resolutions and orders of the University's governing bodies;

6) makes decisions regarding the assets and financial management of the Doctoral School within the scope determined by the Rector under the power of attorney granted;

7) considers doctoral students' concerns in all matters concerning the doctoral school, not reserved for the authority of bodies or other persons holding managerial positions at the University;

8) considers applications from doctoral students in all matters concerning the doctoral school submitted to the Doctoral Student Ombudsman;

9) Issues administrative decisions in individual cases concerning candidates and doctoral students, including denial of admission to the doctoral school, removal from the list of doctoral students, and in cases regulated in these regulations or in separate provisions;

10) Develops a draft of the terms and conditions of admission to the Doctoral School and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;

11) Develops a draft curriculum and submits it for review to the Doctoral School Scientific Council and the University Doctoral Student Council;

12) Appoints a doctoral student's supervisor or supervisors after the Doctoral School Scientific Council has assessed the candidacy;

13) Collaborates with the vice-deans for science representing the relevant scientific disciplines in which education is offered at the doctoral school or with persons designated by them, in the following areas:

a) Ensures conditions for conducting education at the doctoral school, including professional internships in the form of teaching or participating in teaching, for a maximum of 60 teaching hours per year;

b) Ensures conditions for conducting research by doctoral students;

c) Enables doctoral students to undertake internships and conduct research at scientific institutions outside the University, including supporting grant-based activities and the domestic and international mobility of doctoral students;

d) Develops a draft doctoral school curriculum, including a professional internship program;

e) Collaborates with the socio-economic environment in the field of doctoral education;

f) Determines the staffing of classes within the curriculum;

14) Makes decisions on extending the deadline for submitting doctoral dissertations specified in the IRP;

15) Collaborates with the University's doctoral student council;

16) supervises the correct, reliable, and timely entry, updating, archiving, and deletion of data concerning the doctoral school in the Integrated Information System on Science and Higher Education "POL-on";

17) supervises the collection of documentation on the course of study;

18) supervises the preparation of materials for the evaluation of the doctoral school;

19) prepares an annual report on the functioning of the doctoral school and submits it to the Rector by November 30th;

20) considers doctoral students' concerns, including requests for reconsideration.

2. At the request of the Head of the Doctoral School, the Rector may appoint one deputy head of the doctoral school.

§ 6. [Doctoral School Scientific Council]

1. The Rector appoints the Doctoral School Scientific Council.

2. The Head of the Doctoral School determines the composition of the Doctoral School Scientific Council.

3. The doctoral school's scientific council consists of:

a) the head of the doctoral school, who serves as chairperson;

b) the heads of the academic disciplines in which the doctoral school is run, or one person designated by them, who holds at least a postdoctoral degree and current academic achievements in the academic discipline in which education is provided at the doctoral school;

c) a representative of doctoral students delegated by the university's doctoral student council.

4. The doctoral school's academic council serves as the advisory body for the head of the doctoral school.

5. The doctoral school's academic council is responsible, in particular, for evaluating the doctoral school's educational program.

6. The doctoral school's academic council's duties include:

1) annual review and review of changes to the educational programs;

2) reviewing changes to the doctoral school regulations;

3) reviewing changes to the detailed recruitment criteria;

4) reviewing the appointment/change of the doctoral supervisor(s);

5) expressing opinions on other matters presented by the head of the doctoral school.

7. The Doctoral School's Scientific Council meets at meetings convened by the Head of the Doctoral School.

8. The head of doctoral school decides on the manner and procedure of council meetings.

9. The Doctoral School's Scientific Council presents its positions in resolutions adopted by a simple majority vote.

§ 7. [Recruitment to the Doctoral School]

1. Recruitment to the Doctoral School shall be conducted through an open competition, pursuant to the principles specified in the Senate's resolution on the terms and procedures for recruitment to the Doctoral School of the Częstochowa University of Technology.

2. Recruitment to the Doctoral School shall be conducted in the following manner:

a) regular, enabling the commencement of doctoral education on October 1st,

b) special, enabling the commencement of doctoral education twice a year outside the established dates, linked to the results of competitions for positions where the doctoral scholarship is financed from sources other than those specified in Article 409 of the Act.

3. The limit of places for the first year of doctoral education for regular recruitment shall be established by the Rector.

4. Doctoral students admitted through the special recruitment process referred to in paragraph 2, point 2, do not contribute to the admission limits established by the Rector, in accordance with paragraph 3.

5. A person holding a professional title of Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, paragraph 2 of the Act, may be admitted to the Doctoral School.

6. The director prepares a draft of the detailed recruitment rules, submits it to the council and the university doctoral student council for review, and is approved by the university senate.

7. The director, in consultation with the vice-deans for research representing the relevant scientific disciplines, appoints recruitment committees, separately for each scientific discipline within which recruitment to the doctoral school is conducted.

8. Each recruitment committee is composed of:

1) the Head of the Doctoral School, who serves as the Chairperson;

2) the vi-ce dean of the academic discipline in which the admissions process for the doctoral school is conducted;

3) two individuals holding the title of professor or at least the academic degree of habilitated doctorate, designated by the head/coordinator of the academic discipline in which the admissions process is conducted;

4) a representative of the doctoral student self-government;

5) a secretary, designated by the head of the doctoral school.

9. The admission rules, the deadline and place for submitting documents, and the date and place of the admissions process are publicly announced by the head of the doctoral school on the University's website and in the administrative office of the doctoral school.

10. Candidates with disabilities or chronic illnesses are provided with assistance and accommodations during the recruitment process, tailored to their individual needs. The Rector's Representative for Persons with Disabilities determines the form of assistance during the recruitment process individually for each candidate.

11. In the case of a person applying to the doctoral school who is an employee of the University, the Rector's consent is required.

12. A person employed by the University may be admitted to the doctoral school provided that their full-time position is reduced to 0.5 full-time equivalent (FTE) due to the need to carry out teaching and research.

13. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.

14. Refusal of admission to the doctoral school is made by an administrative decision. The decision may be subject to a request for reconsideration.

15. Admission results are public.

16. A doctoral student may only be enrolled in one doctoral school at a time.

17. A doctoral student who studied at another doctoral school may begin their studies at the Doctoral School of the Częstochowa University of Technology through transfer upon meeting the following conditions:

1) availability of available places;

2) convergence of their curriculum with the curriculum being pursued at the doctoral school within the academic discipline in which the doctoral dissertation will be prepared;

3) the ability to pursue the research topic based on the University's human resources and research equipment;

4) completion of the grading period at the previous doctoral school and the ability to continue research at the Częstochowa University of Technology as planned in the previous IRP.

18. Approval for transfer, along with a determination of program differences by the Vice-Dean for Research representing the relevant academic discipline, is made by the Head of the Doctoral School after consulting and reviewing the documentation of the previous course of study and the progress of the IRP.

§ 8. [Doctoral School Education]

1. Doctoral school education prepares students for the award of a doctoral degree and is conducted on the basis of a curriculum and an individual research plan.

2. The curriculum is established by the University Senate at the request of the head of the doctoral school. Establishing the curriculum requires consultation with the doctoral school's scientific council and the university's doctoral student council. If the deadline specified in the statute is not met, the requirement to consult the university's doctoral student council is deemed fulfilled.

3. The curriculum is subject to annual evaluation by the doctoral school's scientific council. If changes to the curriculum are necessary, the head of the doctoral school prepares a new draft curriculum and, after receiving the opinion of the doctoral school's scientific council and the university's doctoral student council, submits it to the University Senate in time for its implementation on October 1st.

4. Doctoral school education lasts eight semesters.

5. The grading period is the academic year.

6. The head of the doctoral school assigns the head of the scientific discipline to organize classes for doctoral students.

7. The doctoral school curriculum specifies in particular:

a) compulsory subjects and their hours;

b) the semester or year in which the course is taught;

c) the number of internships that the doctoral student must complete or participate in. 8. The detailed scope of requirements for a given course, including the requirements for passing the course, is determined by the academic teacher teaching the course and announced at the first class.

9. Classes included in the curriculum, conducted in the form of didactic classes, may be taught by individuals with at least a doctoral degree or its equivalent, who have scientific achievements in the field represented over the last 5 years.

10. Credits or examinations in a subject included in the curriculum are held during the credit and examination session.

11. Classes and assessments/examinations may be conducted in a foreign language, particularly at the request of the instructor or doctoral students, to the extent and under the conditions specified by the supervisor.

12. The following grading scale is used for assessments and examinations:

a) very good (5);

b) good plus (4.5);

c) good (4); d) satisfactory plus (3.5);

e) satisfactory (3);

f) unsatisfactory (2).

13. A negative grade, indicating failure to pass a course, is a failing grade.

14. All forms of coursework undertaken by a doctoral student in a given course, as provided for in the curriculum, conclude with an examination or a graded assessment. A doctoral student may not take an examination in a course for which they have not previously obtained the required credit.

15. If the doctoral student receives an unsatisfactory grade in the examination, they are entitled to a resit examination, which should be conducted by September 15th of the given academic year.

16. The duration of the internship, including those conducted in the form of teaching classes at the University or participating in their teaching, cannot exceed 60 teaching hours per year. The detailed duration of the internship is specified in the curriculum.

17. To complete the year, the following is required: a) the student's record book and periodic achievement sheets containing positive grades in the subjects covered by the curriculum:

a) the doctoral student's student record book and periodic achievement sheets containing positive grades in the subjects covered by the curriculum;

b) the IRP approved by the supervisor for first-year doctoral students, or a progress report on the implementation of the IRP approved by the supervisor for other doctoral students.

18. The head of the doctoral school awards credit for the year based on the documentation referred to in § 8, section 17.

19. The curriculum and individual research plans should be aligned with the learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK).

20. Completion of doctoral education occurs upon submission of the doctoral dissertation, along with a positive opinion from the supervisor, to the doctoral school office.

21. Completion of doctoral education is conditional upon completion of the curriculum and the IRP.

22. A doctoral student who intends to submit their doctoral dissertation before the scheduled deadline is required to complete the missing learning outcomes for the qualification at level 8 of the Polish Qualifications Framework (PRK).

23. The director issues a certificate of completion of doctoral education.

24. The process for awarding a doctoral degree shall be initiated upon application to the appropriate scientific discipline council by a person meeting the requirements specified in Article 186, paragraph 1, points 1-3 or Article 186, paragraph 2 of the Act.

§ 9. [Individual Research Plan and Mid-Term Evaluation]

1. The doctoral student, in consultation with the supervisor, develops an IRP project.

2. The IRP must include a proposed research topic and schedule, along with a deadline for preparing the doctoral dissertation.

3. The IRP should specify, in particular, the deadlines for:

1) the doctoral student to prepare and submit for publication or accept for publication at least one scientific publication in a peer-reviewed scientific journal or at least one scientific monograph or a chapter in such a monograph, listed in the current list of publishers or in the peer-reviewed proceedings of at least one international scientific conference;

2) participation in at least one national or international conference;

3) preparation and submission of a grant application to a national or foreign agency funding research through a competitive process;

4) completion of individual tasks specified in the schedule referred to in point 2, necessary for the preparation of the doctoral dissertation;

5) submission of the doctoral dissertation.

4.The prepared grant application referred to in § 9 section 3 item 3 may be submitted to a domestic or foreign agency financing scientific activities in a competitive procedure after obtaining the approval of the Vice-Dean for Science representing the relevant scientific discipline.

5. After receiving an opinion from the supervisor(s) and the assistant supervisor on the IRP project, the doctoral student shall submit it to the head of the doctoral school in time to allow for its approval within 12 months of the commencement of studies.

6. Failure to submit the IRP project by the deadline may result in removal from the list of doctoral students.

7. Within 14 days of the doctoral student's submission of the IRP project, after consulting the doctoral school's scientific council, the head of the doctoral school may:

a) accept the IRP project;

b) return the IRP project to the doctoral student for corrections or supplementation.

7. Deadlines for the completion of individual research tasks should be specified in months from the commencement date of doctoral school education.

8. The implementation of the IRP is subject to a mandatory mid-term evaluation after the end of the fourth semester of study, but no later than three months after the beginning of the fifth semester.

9. Mid-term evaluations are conducted by mid-term evaluation committees, appointed by the head of the doctoral school at the beginning of each fourth semester of the study cycle, separately for each scientific discipline in which the doctoral school is run. More than one mid-term evaluation committee may be appointed in each scientific discipline.

10. Vice-Deans for Research representing the relevant scientific disciplines submit a proposal for the composition of the mid-term evaluation committee to the head of the doctoral school.

11. The mid-term evaluation committee shall consist of three persons, including at least one person holding a postdoctoral degree or a professorship in the scientific discipline in which the doctoral dissertation is being prepared and employed outside the University. The chairperson of each committee is the Vice-Dean for Science representing the relevant scientific discipline within which the mid-term evaluation is taking place. In justified cases, the Vice-Dean for Science representing the relevant scientific discipline may designate another person to serve as chairperson of the mid-term evaluation committee.

12. A member of the mid-term evaluation committee may not be a person who, within the last five years:

1) has supervised four doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation, or

2) has supervised the dissertation preparation of at least two doctoral candidates who did not receive positive reviews referred to in Article 191, Section 1 of the Act. 13. A member of the mid-term evaluation committee employed outside the University is entitled to remuneration equal to 20% of a professor's salary.

14. The supervisor, in consultation with the Vice-Deans for Research representing the relevant scientific disciplines, sets the dates for the mid-term evaluation committee meetings for all doctoral students representing the scientific discipline within which the mid-term evaluation is taking place.

15. A doctoral student's supervisor may not be a member of the committee conducting the mid-term evaluation of the doctoral student under their supervision.

16. The supervisor may participate in the mid-term evaluation committee meeting as an observer.

17. The mid-term evaluation is conducted based on:

1) documentation confirming the completion of the IRP;

2) the supervisor's opinion regarding the doctoral student's academic development;

3) the doctoral student's self-report on the progress of the IRP and a discussion during which the doctoral student is asked questions regarding the completion of the IRP.

18. The doctoral student must submit the documentation referred to in § 9, section 17, to the Vice-Dean for Research representing the appropriate academic discipline by September 30th. 1

9. The mid-term evaluation ends with a positive or negative result. The mid-term evaluation committee adopts the evaluation by a majority vote.

20. With the doctoral student's consent, the chair of the mid-term evaluation committee prepares an audio recording for the purpose of preparing the minutes of the committee meeting.

21. Within 7 days of the evaluation, the chair of the mid-term evaluation committee shall submit to the supervisor the minutes along with a justification containing the results of the mid-term evaluation and the documentation referred to in § 9, section 17, along with the audio recording of the committee meeting.

22. This recording is deleted by the supervisor at the end of the month in which:

1) the mid-term evaluation was conducted (applies to a doctoral student who received a positive evaluation);

2) the decision to remove the candidate from the list of doctoral students has become final (applies to a doctoral student who received a negative assessment).

23. A positive assessment allows for further study and an increase in the scholarship amount.

24. A negative result of the mid-term assessment results in removal from the list of doctoral students by the supervisor.

25. A request for reconsideration may be filed against the removal decision issued by the supervisor.

26. At the supervisor's request, an internal committee consisting of the supervisor, the Vice-Dean for Research representing the relevant scientific discipline, and a person holding a postdoctoral degree or the title of professor in the discipline in which the doctoral dissertation is being prepared, may conduct an assessment of the candidate's implementation of the IRP and the curriculum at any stage of their education.

27. A negative assessment of the procedure referred to in § 9, section 24 results in removal from the list of doctoral students.

§ 10. [Rights of the doctoral student]

1. A person admitted to a doctoral school acquires the rights of a doctoral student upon taking the oath.

2. A doctoral student receives a doctoral student ID card issued in accordance with applicable regulations.

3. A doctoral student who has obtained a doctoral degree as a result of graduating from a doctoral school has the period of study at that school, but no longer than 4 years, included in the period of employment on which employee rights depend.

4. A doctoral student who has not completed their education at a doctoral school due to:

a) taking up employment as an academic teacher or researcher;

b) ceasing to provide doctoral education in a given discipline; as long as they have obtained a doctoral degree, but no longer than 4 years, included in the period of work on which employee rights depend.

5. A doctoral student has the right to:

1) the supervisor's academic supervision in the preparation of the doctoral dissertation;

2) submitting a request to the head of the doctoral dissertation to change the supervisor;

3) joining doctoral student organizations at the University;

4) receiving a doctoral scholarship under the terms specified in the Act;

5) vacation breaks not exceeding 8 weeks per year;

6) applying for accommodation in the University's student dormitory under the terms specified in separate regulations;

7) applying for accommodation for a spouse or child in the University's student dormitory under the terms specified in separate regulations;

8) using laboratories, research equipment and apparatus, library collections, and IT resources to the extent necessary to implement the curriculum, the IRP, and prepare the doctoral dissertation, under the terms specified in separate regulations;

9) support in preparing grant applications from the University administration;

10) undertaking research internships;

11) apply for scholarships for outstanding young scientists under the terms specified in separate regulations;

12) in justified cases, apply for an extension of the deadline for submitting a doctoral dissertation;

13) suspend education at the doctoral school under the terms specified in § 15 of these regulations.

6. Doctoral students at the Częstochowa University of Technology constitute the doctoral student self-government. The structure and principles of operation of the university's doctoral student council are specified in its regulations.

§ 11. [Doctoral Student Obligations]

1. Doctoral students are obligated to comply with the regulations, adhere to the ethical standards set forth in the Code of Ethics for Doctoral Students, and comply with copyright and related rights, as well as industrial property law.

2. Doctoral students are obligated to complete the curriculum and the IRP, participate in teaching activities within the doctoral school, and complete professional internships.

3. Doctoral students are obligated to have an electronic researcher ID (ORCID).

4. During their doctoral studies, doctoral students are obligated to prepare at least one application for a research project to a funding agency through a competitive process.

5. Doctoral students are obligated to participate in competitions supporting the domestic and international mobility of doctoral students.

6. The doctoral student is required to submit to the doctoral school office by September 15th documentation confirming the course of study, a professional internship credit card, and an annual report, along with the supervisor's opinion on the progress of work included in the IRP. A doctoral student admitted under the terms of § 7, section 2, item 2, submits a report for the duration of their education at the doctoral school.

7. The doctoral student is required to submit a declaration for the evaluation of the quality of their research activity.

8. The doctoral student is required to submit the data and information required for reporting in the Integrated Information System on Science and Higher Education "POL-on," in particular, information regarding employment as an academic teacher or researcher for the purpose of carrying out a research project.

9. The doctoral student is required to immediately notify the supervisor of their scientific achievements.

10. The doctoral student is required to comply with the internal rules and regulations that apply to them, in particular those regarding fire safety and occupational health and safety.

11. A doctoral student is obligated to immediately notify the supervisor of:

1) a change in name and address, as well as any other information required by the University;

2) taking up employment as an academic teacher and its scope;

3) obtaining a doctoral degree awarded by another authorized entity;

4) undertaking education at another doctoral school;

5) other circumstances that may affect their status or education at the doctoral school.

§ 12 [Supervisor and Assistant Supervisor]

1. Within two months of commencing their studies, a doctoral student shall submit an application to the head of the program for the appointment of a supervisor under whose supervision they will implement the IRP and prepare their doctoral dissertation.

2. An academic teacher at the Ph.D. may simultaneously supervise a maximum of three doctoral students at the doctoral school. An academic teacher who closely collaborates with the business community may supervise up to five doctoral students, including those enrolled in the "Implementation Doctorate" program, after consultation with the head of the program and the Vice-Dean for Research representing the relevant academic discipline.

3. The application referred to in paragraph 1 shall include:

1) the doctoral student's details: first name, last name, PESEL number, and, if missing, the number of a document confirming their identity;

2) a proposal of persons to serve as supervisors;

3) the consent of the persons referred to in paragraph 2;

4) a justification.

4. The supervisor decides on the appointment of the supervisor and is not bound by the doctoral student's request.

5. The supervisor may be a person holding:

1) the academic title of professor, or

2) the academic degree of habilitated doctorate, or

3) a person without a habilitated doctorate or the title of professor who is an employee of a foreign university or research institution, provided the board determines that this person has significant achievements in the scientific issues covered by the doctoral dissertation.

6. At the supervisor's request, the supervisor appoints an assistant supervisor. The assistant supervisor may be a person holding at least a doctoral degree.

7. A person cannot be appointed as a supervisor if, within the last 5 years, they have:

1) supervised 4 doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation, or

2) supervised the preparation of a doctoral dissertation by at least 2 doctoral candidates who did not receive positive reviews.

8. A person who has been subjected to a disciplinary penalty of deprivation of the right to perform supervisory duties, as referred to in Article 276, Section 1, Item 4 of the Act, also cannot be appointed as a supervisor.

9. A supervisor is obligated to:

1) support the doctoral student in their independent research;

2) establish an IRP with the doctoral student and oversee its implementation throughout the entire period of study at the doctoral school;

3) conduct a thematic doctoral seminar; 4

) guide the doctoral student's scientific development;

5) assessing the doctoral student's academic development in the form of a written opinion submitted to the supervisor along with the doctoral student's annual report;

6) reviewing all doctoral student requests regarding the course of their education, including requests for research internships and conferences;

7) notifying the supervisor of any lack of progress in completing the IRP;

8) supervising the doctoral student's doctoral dissertation;

9) verifying the doctoral student's academic achievements at the end of their education at the doctoral school.

10. The supervisors jointly and severally fulfill the obligations listed in paragraph 9.

11. In justified cases, the doctoral student may request a change of supervisor, supervisors, or assistant supervisor, which they submit to the supervisor along with a justification.

12. In justified cases, the supervisor may request a change of supervisor, supervisors, or assistant supervisor, which they submit to the supervisor along with a justification.

13. If the supervisor is on sabbatical leave or health leave, or if an unexpected event prevents proper supervision of the doctoral student, the supervisor shall request the Vice-Dean for Research representing the appropriate academic discipline to propose a second supervisor or an assistant supervisor.

14. The supervisor, after consulting the council, may change the supervisor.

§ 13 [Doctoral Scholarship]

1. A doctoral student who does not hold a doctoral degree receives a doctoral scholarship subject to paragraph 2.

2. The total period of receiving a doctoral scholarship at doctoral schools may not exceed four years.

3. The period referred to in paragraph 2 does not include the period of suspension of education at the doctoral school or the period of education at the doctoral school in the case referred to in Article 206, paragraph 2 of the Act.

4. The amount of the monthly doctoral scholarship is at least:

1) 37% of the professor's salary – up to the month in which the mid-term evaluation was conducted,

2) 57% of the professor's salary – after the month in which the mid-term evaluation was conducted.

5. The scholarship is non-repayable and is paid in monthly installments at the end of the month to the bank account indicated by the doctoral student.

6. During the period of suspension of education, the provisions on determining maternity benefits shall apply accordingly to determining the amount of the doctoral scholarship, except that the basis for calculating the benefit shall be understood as the amount of the monthly doctoral scholarship referred to in paragraph 4, payable on the date of submission of the suspension application. 7

. A doctoral student with a disability certificate, a disability degree certificate, or a certificate referred to in Articles 5 and 62 of the Act of August 27, 1997, on Vocational and Social Rehabilitation and Employment of Persons with Disabilities shall receive a doctoral scholarship in the amount increased by 30% of the amount indicated in paragraph 4, item 1, upon presentation of the relevant certificate.

8. A doctoral student who submits their doctoral dissertation earlier than the completion date specified in the education program shall receive a doctoral scholarship until the completion date, but for no longer than 6 months.

9. Removal of a doctoral student from the list of doctoral students at a doctoral school results in the cessation of payment of the doctoral scholarship:

1) on the first day of the month following the month in which the decision to remove the student becomes final (applies to doctoral students whose scholarship is financed by a subsidy from the relevant ministry);

2) on the day on which the decision to remove the student becomes final (applies to winners of the "Implementation Doctorate" competition).

10. A doctoral student receiving a doctoral scholarship is covered by mandatory retirement, disability, and accident insurance, pursuant to the terms specified in separate regulations.

11. A doctoral scholarship is not available to a doctoral student whose education at a doctoral school requires employment at the entity operating the doctoral school:

1) under an employment contract;

2) with a salary exceeding the salary of a professor.

§ 14 [Removals from the list of doctoral students]

1. The Head of Doctoral Studies shall remove a doctoral student from the list of doctoral students in the event of:

1) a negative mid-term evaluation;

2) failure to submit a doctoral dissertation by the deadline specified in the IRP;

3) withdrawal from studies;

4) failure to resume studies;

5) violation of the prohibition on studying at more than one doctoral school; 6) disciplinary penalty of expulsion from the University.

2. The Head of Doctoral Studies may remove a doctoral student from the list of doctoral students in the event of:

1) failure to submit an IRP by the deadline;

2) unsatisfactory progress in preparing the doctoral dissertation, based on a reasoned request from the supervisor;

3) failure to fulfill obligations arising from the regulations, the curriculum, and the IRP.

3. Removal from the list of doctoral students shall be effected by an administrative decision.

4. The decision referred to in paragraph 3 may be appealed for reconsideration.

§ 15 [Conditions for extending the deadline for submitting a doctoral dissertation]

1. At the request of the doctoral student, education is suspended for a period corresponding to the duration of maternity leave, leave on maternity leave terms, paternity leave, and parental leave, as defined in the Act of 26 June 1974 – Labor Code.

2. The supervisor may, at the request of the doctoral student, extend the deadline for submitting the doctoral dissertation established in the Institute of Physics, but by no longer than two years.

3. A request to extend the deadline for submitting the doctoral dissertation should include:

1) the doctoral student's details: first name, last name, academic discipline in which the doctoral student is pursuing their education, semester of study, and student record book number;

2) a justification, specifying the expected deadline for submitting the doctoral dissertation and indicating the progress of work related to the preparation of the doctoral dissertation.

4. The request must be accompanied by:

1) the supervisor's opinion;

2) documents justifying the extension of the deadline for submitting the doctoral dissertation.

5. The decision referred to in paragraph 2 may be appealed to the Vice-Rector for Academic Affairs within 14 days of receipt of the decision.

§ 16 [Disciplinary Liability of Doctoral Students]

1. A doctoral student is subject to disciplinary liability for violating the regulations in force at the University and for an act demeaning the dignity of a doctoral student.

2. A doctoral student may not be punished simultaneously by the Rector and the Disciplinary Committee for the same act. 3. Disciplinary penalties include:

1) a warning;

2) a reprimand;

3) a reprimand with a warning;

4) suspension of certain doctoral student rights for a period of up to one year;

5) expulsion from the University.

4. The provisions of Article 307, paragraph 2, Articles 308–320 of the Act, and regulations issued pursuant to Article 321 of the Act shall apply accordingly to the disciplinary liability of doctoral students.

§ 17 [Method of Documenting the Course of Study]

1. The doctoral school documents the course of study.

2. Documentation of the doctoral school education process consists of:

1) documentation of the education process maintained in the University's IT system and/or in the doctoral student's student record book;

2) the doctoral student's personal file.

3. The doctoral student's personal file contains:

1) application – a questionnaire for admission to the doctoral school generated from the IRK system;

2) certified copies of diplomas from first-cycle and second-cycle studies or long-cycle master's studies;

3) statements of consent from the supervisor to perform the function;

4) consent to the processing of personal data for the recruitment process and for the education process at the doctoral school;

5) recruitment documentation;

6) documentation of the mid-term evaluation;

7) oath signed by the doctoral student;

8) documents confirming scientific activity;

9) IRP;

10) periodic achievement cards;

11) IRP implementation reports;

12) applications for an increase in the doctoral scholarship due to a disability certificate, along with attachments;

13) applications for the appointment or change of a supervisor;

14) applications to suspend the doctoral school education process;

15) applications for an extension of the deadline for submitting the doctoral dissertation, along with attachments;

16) the doctoral dissertation submitted at the end of the doctoral school education, along with a positive opinion from the supervisor;

17) certificate of completion of the doctoral school;

18) information on withdrawal from the doctoral school education;

19) decisions regarding the course of study at the doctoral school;

20) confirmation of personal receipt of documents or their delivery in another form;

21) applications for reconsideration of administrative matters;

22) objections by the doctoral student to the director's decisions.

4. Documentation may be maintained in IT systems in accordance with separate regulations.

5. Documentation of the educational process is collected and stored at the doctoral school's office, in accordance with applicable regulations.

§ 18[Presumption of Competence]

In matters not regulated by the Act, the University Statute, or these regulations, the Rector shall decide.

§ 19 [Implementation Doctorate]

A person participating in the "Implementation Doctorate" program receives a doctoral scholarship as part of the program. Detailed criteria and procedures for awarding doctoral scholarships under the "Implementation Doctorate" program are regulated by separate regulations.

§ 20 [External Doctorate]

A person applying for a doctoral degree externally shall submit an application to the scientific discipline council for the appointment of a supervisor before initiating the proceedings.

Order No. 220/2019
of the Rector of Częstochowa University of Technology
of July 15, 2019

regarding the appointment of recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2019/2020 academic year for individual disciplines

§ 1

Pursuant to § 3 section 1 of Resolution No. 281/2018/2019 of the Senate of Częstochowa University of Technology of May 29, 2019, on the conditions and procedure for recruitment to the Doctoral School of Częstochowa University of Technology conducted in the 2019/2020 academic year, I hereby appoint the following compositions of the recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2019/2020 academic year for individual disciplines:

1. Environmental Engineering, Mining, and Energy:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Małgorzata Kacprzak,
Prof. Izabela Majchrzak-Kucęba,
Prof. Eng, Lidia Dąbrowska,
PhD Wioletta Kuśmierska-Matyszczak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

2. Automation, Electronics, and Electrical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Katarzyna Oźga,
Prof. Waldemar Minkina,
Prof. Paweł Jabłoński,
PhD Wioletta Kuśmierska-Matyszczak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

3. Technical Information Technology and Telecommunications:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Robert Nowicki,
Prof. Krystian Łapa,
Prof. Łukasz Szustak,
PhD Wioletta Kuśmierska-Matyszczak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

4. Materials Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Marcin Knapiński,
Prof. Michał Szota,
Prof. Tomasz Wylecie,
PhD Wioletta Kuśmierska-Matyszczak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

5. Mechanical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,

Prof. Małgorzata Klimek,
Prof. Andrzej Bogusławski,
Prof. Wojciech Sochacki,
PhD Wioletta Kuśmierska-Matyszczak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

6. Management and Quality Sciences:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Dorota Jelonek, PhD,
Prof. Prof. Agata Mesjasz-Lech,
Prof. Paweł Nowodziński,
PhD Wioletta Kuśmierska-Matyszczak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

§ 2

The deadlines for the recruitment process in individual disciplines are specified in § 5 of the Annex to Resolution No. 281/2018/2019 of the Senate of the Czestochowa University of Technology of May 29, 2019, regarding the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology conducted in the 2019/2020 academic year.

§ 3

This regulation comes into effect on the date of its issuance.

Rrector

Order No. 353/2020
of the Rector of Częstochowa University of Technology
of June 9, 2020

regarding the appointment of recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2020/2021 academic year for individual disciplines

§ 1

Pursuant to § 3 section 1 of Annex to Resolution No. 285/2019/2020 of the Senate of Częstochowa University of Technology of February 12, 2020, on the conditions and procedure for recruitment to the Doctoral School of Częstochowa University of Technology conducted in the 2020/2021 academic year, I hereby appoint the following compositions of the recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2021/2022 academic year for individual disciplines:

1. Environmental Engineering, Mining, and Energy:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Izabela Majchrzak-Kucęba,
Prof. Małgorzata Kacprzak,
Prof. Iwona Zawieja,
PhD Jesica Biś, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

2. Automation, Electronics, and Electrical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Marek Lis,
Prof. Waldemar Minkina,
Prof. Paweł Jabłoński,
PhD Jesica Biś, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

3. Technical Information Technology and Telecommunications:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Robert Nowicki,
Prof. Krystian Łapa,
Prof. Łukasz Szustak,
PhD Jesica Biś, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

4. Materials Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Agata Dudek,
Prof. Rafał Prusak,
Prof. Józef Iwaszko,
PhD Jesica Biś, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

5. Mechanical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Janusz Szmidla,
Prof. Maciej Marek,
Prof. Arkadiusz Szarek,
PhD Jesica Biś, Representative of the University's Doctoral Student Council ,

MSc, Eng. Magdalena Grajcar, – secretary.

6. Management and Quality Sciences:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Prof. Agata Mesjasz-Lech,
Prof. Sebastian Kot,
Prof.Anna Korombel,
PhD Jesica Biś, Representative of the University's Doctoral Student Council ,
MSc, Eng. Magdalena Grajcar, – secretary.

§ 2

The deadlines for the recruitment process in individual disciplines are specified in § 5 of the Annex to Resolution No. 385/2019/2020 of the Senate of the Czestochowa University of Technology of February 12, 2020, regarding the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology conducted in the 2020/2021 academic year.

§ 3

This regulation comes into effect on the date of its issuance.

Rrector

Order No. 149/2021
of the Rector of Częstochowa University of Technology
of July 25, 2021

regarding the appointment of recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2021/2022 academic year for individual disciplines

§ 1

Pursuant to § 3 section 1 of Resolution No. 21/2020/2021 of the Senate of Częstochowa University of Technology of February 24, 2021, on the conditions and procedure for recruitment to the Doctoral School of Częstochowa University of Technology conducted in the 2021/2022 academic year, I hereby appoint the following compositions of the recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2021/2022 academic year for individual disciplines:

1. Environmental Engineering, Mining, and Energy:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Izabela Majchrzak-Kucęba,
Prof. Iwona Zawieja,
Prof. Mariusz Kowalczyk.
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

2. Automation, Electronics, and Electrical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Marek Lis,
Prof. Waldemar Minkina,
Prof. Paweł Jabłoński,
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

3. Technical Information Technology and Telecommunications:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Robert Nowicki,
Prof. Łukasz Szustak,
Prof. Krystian Łapa,
PPhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

4. Materials Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Rafał Prusak,
Prof. Michał Szota,
Prof. Piotr Szota,
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

5. Mechanical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Janusz Szmidla,
Prof. Maciej Marek,
Prof. Przemysław Postawa,
PPhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,

MSc, Eng. Anna Skrońska, – secretary.

6. Management and Quality Sciences:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Prof. Agata Mesjasz-Lech,
Prof.Anna Korombel,
Prof. Sebastian Kot,
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

§ 2

The deadlines for the recruitment process in individual disciplines are specified in § 5 of the Annex to Resolution No. 21/2020/2021 of the Senate of the Czestochowa University of Technology of February 24, 2021, regarding the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology conducted in the 2021/2022 academic year.

§ 3

This regulation comes into effect on the date of its issuance.

Rrector

Order No. 273/2022
of the Rector of Częstochowa University of Technology
of May 25, 2022

regarding the appointment of recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2022/2023 academic year for individual disciplines

§ 1

Pursuant to § 3 section 1 of Resolution No. 98/2021/2022 of the Senate of Częstochowa University of Technology of February 8, 2022, on the conditions and procedure for recruitment to the Doctoral School of Częstochowa University of Technology conducted in the 2022/2023 academic year, I hereby appoint the following compositions of the recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2022/2023 academic year for individual disciplines:

1. Environmental Engineering, Mining, and Energy:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Izabela Majchrzak-Kucęba,
Prof. Iwona Zawieja,
Prof. Mariusz Kowalczyk.
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

2. Automation, Electronics, and Electrical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Krzysztof Chwastek,
Prof. Mariusz Najgebauer,
Prof. Mirosław Kornatka,
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

3. Technical Information Technology and Telecommunications:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Robert Nowicki,
Prof. Łukasz Szustak,
Prof. Marcin Zalasiński,
PPhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

4. Materials Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Rafał Prusak,
Prof. Agata Dudek,
Prof. Sebastian Mróz,
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

5. Mechanical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Janusz Szmidla,
Prof. Piotr Pełka,
Prof. Jerzy Winczek,
PPhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,

MSc, Eng. Anna Skrońska, – secretary.

6. Management and Quality Sciences:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Anna Korombel,
Prof. Sylwia Łęgowik – Świącik,
Prof. Marek Szajt,
PhD Aleksandra Kucharczyk, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

§ 2

The deadlines for the recruitment process in individual disciplines are specified in § 5 of the Annex to Resolution No. 98/2021/2022 of the Senate of the Czestochowa University of Technology of February 8, 2022, regarding the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology conducted in the 2022/2023 academic year.

§ 3

This regulation comes into effect on the date of its issuance.

Rrector

Order No. 384/2023
of the Rector of Częstochowa University of Technology
of May 10, 2023

regarding the appointment of recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2023/2024 academic year for individual disciplines

§ 1

Pursuant to § 3 section 1 of Resolution No. 169/2022/2023 of the Senate of Częstochowa University of Technology of February 22, 2023, on the conditions and procedure for recruitment to the Doctoral School of Częstochowa University of Technology conducted in the 2023/2024 academic year, I hereby appoint the following compositions of the recruitment committees for the Doctoral School of Częstochowa University of Technology for the 2023/2024 academic year for individual disciplines:

1. Environmental Engineering, Mining, and Energy:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Izabela Majchrzak-Kucęba,
Prof. Iwona Zawieja,
Prof. Mariusz Kowalczyk.
PhD Justyna Garus, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

2. Automation, Electronics, and Electrical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Krzysztof Chwastek,
Prof. Mariusz Najgebauer,
Prof. Mirosław Kornatka,
PhD Justyna Garus, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

3. Technical Information Technology and Telecommunications:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Robert Nowicki,
Prof. Łukasz Szustak,
Prof. Marcin Zalasiński,
PPhD Justyna Garus, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

4. Materials Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Rafał Prusak,
Prof. Agata Dudek,
Prof. Sebastian Mróz,
PhD Justyna Garus, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

5. Mechanical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Janusz Szmidla,
Prof. Agnieszka Kijo-Kleczkowska,
Prof. Adam Gnatowski,
PPhD Justyna Garus, Representative of the University's Doctoral Student Council ,

MSc, Eng. Anna Skrońska, – secretary.

6. Management and Quality Sciences:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Sebastian Kot,
Prof. Anna Lemańska-Majdzik,
Prof. Marek Szajt,
PhD Justyna Garus, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

§ 2

The deadlines for the recruitment process in individual disciplines are specified in § 5 of the Annex to Resolution No. 169/2022/2023 of the Senate of the Czestochowa University of Technology of February 22, 2023, regarding the conditions and procedure for recruitment to the Doctoral School of the Czestochowa University of Technology conducted in the 2023/2024 academic year.

§ 3

ORDER No. 273/2022 of the Rector of the Częstochowa University of Technology of 25 May 2022 on the appointment of recruitment committees of the Doctoral School of the Częstochowa University of Technology in the academic year 2022/2023 for individual scientific disciplines shall cease to apply.

§ 4

This regulation comes into effect on the date of its issuance.

Rrector

Częstochowa,
June 25, 2024

RN-SD.5011.1.2024

Pursuant to § 3, sections 1 and 2 of the Annex to Resolution No. 253/2023/2024 of the Senate of the Częstochowa University of Technology of March 20, 2024, on the conditions and procedure for admission to the Doctoral School of the Częstochowa University of Technology in the 2024/2025 academic year, I hereby appoint admission committees to the Doctoral School of the Częstochowa University of Technology for the 2024/2025 academic year for individual scientific disciplines, with the following composition:

1. Automation, Electronics, Electrical Engineering, and Space Technologies:
Head of the Doctoral School – Chairman,
Head of the Scientific Discipline of Automation, Electronics, Electrical Engineering, and Space Technologies
Prof. Paweł Jabłoński,
Prof. Mariusz Najgebauer,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

2. Technical Information Technology and Telecommunications:
Head of the Doctoral School – Chairman
Head of the Scientific Discipline: Technical Information Technology and Telecommunications
Prof. Krystian Łapa,
Prof. Marcin Zalasiński,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

3. Management and Quality Sciences:
Head of the Doctoral School – Chairman
Prof. Bogusława Ziółkowska,
Prof. Waldemar Jędrzejczyk,
Prof. Marek Szajt,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

4. Mechanical Engineering:
Head of the Doctoral School – Chairman
Head of the Scientific Discipline: Mechanical Engineering
Prof. Agnieszka Kijo-Kleczkowska,
Prof. Adam Gnatowski,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

5. Environmental, Mining, and Energy Engineering:
Head of the Doctoral School – Chairman
Head of the Scientific Discipline: Environmental, Mining, and Energy Engineering
Prof. Izabela Majchrzak-Kucęba,
Prof. Iwona Zawieja,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

6. Materials Engineering:
Head of the Doctoral School – Chairman
Head of the Materials Engineering Discipline
Prof. Monika Gwoździk,
Prof. Sebastian Mróz,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

Recruitment procedures in individual scientific disciplines will be conducted according to the schedule contained in § 5 of the Annex to Resolution No. 253/2023/2024 of the Senate of the Częstochowa University of Technology of March 20, 2024 on the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology in the 2024/2025 academic year.

Head of the Doctoral School

Częstochowa,
June 10, 2025

RN-SD.5011.1.2025

Pursuant to § 3, sections 1 and 2 of the Annex to Resolution No. 262025 of the Senate of the Częstochowa University of Technology of March 19, 2025, on the conditions and procedure for admission to the Doctoral School of the Częstochowa University of Technology in the 2025/2026 academic year, I hereby appoint admission committees to the Doctoral School of the Częstochowa University of Technology for the 2025/2026 academic year for individual scientific disciplines, with the following composition:

1. Automation, Electronics, Electrical Engineering, and Space Technologies:
Prof. Bartosz Koczurkiewicz – Chairman,
Prof. Krzysztof Chwastek,
Prof. Marek Lis,
Prof. Tomasz Kulej,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

2. Technical Information Technology and Telecommunications:
Prof. Bartosz Koczurkiewicz – Chairman
Prof. Adam Kulawik,
Prof. Janusz Bobulski,
Prof. Piotr Duda,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

3. Materials Engineering:
Prof. Bartosz Koczurkiewicz – Chairman
Prof. Rafał Prusak,
Prof. Sebastian Mróz,
Prof. Jerzy Gęga,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

4. Mechanical Engineering:
Prof. Bartosz Koczurkiewicz – Chairman
Prof. Janusz Szmidla
Prof. Agnieszka Kijo-Kleczkowska,
Prof. Rafał Gołębski,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

5. Environmental, Mining, and Energy Engineering:
Prof. Bartosz Koczurkiewicz – Chairman
Prof. Paweł Mirek,
Prof. Maria Włodarczyk – Makuła ,
Prof. Robert Sekret,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

6. Management and Quality Sciences:

Prof. Bartosz Koczurkiewicz – Chairman
Prof. Agata Mesjasz – Lech,
Prof. Klaudia Smoląg,
Prof. Sebastian Kot,
PhD Anna Nowak, Representative of the University's Doctoral Student Council ,
MSc, Eng. Anna Skrońska, – secretary.

Recruitment procedures in individual scientific disciplines will be conducted according to the schedule contained in § 5 of the Annex to Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025 on the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology in the 2025/2026 academic year.

Head of the Doctoral School

Resolution No. 281/2018/2019
of the Senate of the Częstochowa University of Technology
of May 29, 2019

regarding: the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology conducted in the 2019/2020 academic year

1. The Senate of the Częstochowa University of Technology, pursuant to Article 200, paragraph 2 of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended), in conjunction with Article Article 291 of the Act of July 3, 2018 - Provisions implementing the Act - Law on Higher Education and Science (Journal of Laws of 2018, item 1669, as amended), in an open vote, determined the terms and procedure for admission to the Doctoral School of the Częstochowa University of Technology for the 2019/2020 academic year, in accordance with the Annex to this Resolution.

2. This Resolution comes into effect on the date of its adoption.

Rector

Appendix
to the Resolution No. 281/2018/2019 of the Senate of the Częstochowa University of Technology of May 29, 2019

Rules for Admission
to the Doctoral School of the Częstochowa University of Technology
in the 2019/2020 academic year

§ 1

1. The admission requirements for the Doctoral School of the Częstochowa University of Technology, hereinafter referred to as the Doctoral School, are specified in the following scientific fields/disciplines: dyscyplinach naukowych:

field of science	**Discipline**
Engineering and technical sciences	- Automation, electronics, and electrical engineering - Technical computer science and telecommunications - Materials engineering - Mechanical engineering - Environmental engineering, mining, and energy
Social sciences	- Management and quality sciences

2. A person holding a professional title of: Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, Section 2, of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended), hereinafter referred to as the Act, may be admitted to the doctoral school.

3. Recruitment to the doctoral school is conducted through a competition:

a) regular, enabling the commencement of education at the doctoral school on October 1,

b) special, enabling the commencement of education at the doctoral school twice a year outside the established dates, linked to the results of competitions for places in which the doctoral scholarship is financed from sources other than the funds indicated in Article 409 of the Act.

4. The limit of places for the first year of education at the doctoral school for regular recruitment is established by the Rector.

5. Doctoral students admitted through special recruitment do not count against the admission limits established by the Rector.

6. At the request of the Head of the Doctoral School, the Rector may approve the announcement of supplementary recruitment.

7. Foreigners may undertake studies at the Doctoral School based on currently applicable regulations.

8. Foreigners who possess sufficient Polish language proficiency to undertake studies in this language may apply for admission to the Doctoral School.

9. Foreigners are required to submit a certificate confirming knowledge of the Polish language at least at level B1, issued by the State Commission for the Certification of Proficiency in Polish as a Foreign Language, or a certificate confirming completion of a preparatory course for studies in Polish at an institution designated by the Minister of Science and Higher Education, or a certificate issued by the Częstochowa University of Technology confirming that their level of Polish language proficiency allows them to undertake studies in this language.

10. If a person applying for admission to the doctoral school has been subject to a disciplinary penalty or has been convicted by a final judgment for an intentional offence or an intentional tax offence, that person is obliged to inform the head of the doctoral school thereof in writing.

§ 2

1. Registration of candidates for the doctoral school is conducted in the IRK system from July 22, 2019, from 8:00 AM to September 5, 2019, at 11:59 PM.

2. The Częstochowa University of Technology is not responsible for the inability to register or make changes due to network outages beyond the University's control or periodic overloads of the University's servers.

3. Online registration is considered successful if all required data is entered by the candidate.

4. The candidate is obligated to keep the password to their personal registration account confidential. The University is not responsible for the consequences of sharing this password with third parties, in particular for changes to entries authorized by this password.

5. After registering in the IRK system, the candidate must submit the following documents to the doctoral school's administrative office between August 12th and September 6th, 2019:

a) an application for admission to the doctoral school generated from the IRK system;

b) a summary of the candidate's professional experience (maximum 4 A4 pages, Times New Roman 12 font, 1.5 line spacing) containing, among other things:

• a description of the specific research topic, taking into account the criteria contained in Annex 2a to these regulations;

• a description of the topic of the doctoral dissertation in the case of a candidate participating in doctoral studies at the Częstochowa University of Technology, other than the topic of the research topic proposed for implementation as part of the doctoral school education;

• a description of research activity, including, among other things, scientific publications, participation in scientific conferences and research projects;

• information on completed courses and certificates;

c) Graduates of foreign universities must submit their original higher education diploma, and in the case of a diploma that, in accordance with applicable legal regulations, is subject to recognition through the nostrification process, a certificate issued by the entity performing the nostrification confirming the equivalence of the diploma obtained abroad with a higher education diploma obtained in Poland;

d) an opinion from the head of the discipline regarding the feasibility of implementing the proposed research topic;

e) an identity document (e.g., ID card, passport, Polish Card) – original available for inspection;

f) a certified copy of the diplomas of completion of first- and second-cycle studies or long-cycle master's studies;

g) a copy of a document confirming a change of name (applies to individuals with a diploma issued in a name different from the one on the application for admission to doctoral school) – original available for inspection;

h) three photographs, against a light background, without headgear (45 mm x 65 mm);

i) copies of certificates confirming knowledge of foreign languages and specialized computer programs, completed postgraduate studies, and courses related to the discipline in which recruitment to the doctoral school is conducted (certified as true copies of the original) – if the candidate has them;

j) declaration of not holding a doctoral degree (Annex 3 to these rules);

k) declaration of employment as an academic teacher or researcher under the terms specified in Art. 209, Section 10 of the Act (Annex 4 to these rules);

l) declaration of commencement of education at one doctoral school in accordance with Art. 200, Section 7 of the Law on Higher Education and Science (Annex 5 to these rules); m) consent to the processing of personal data for the purposes of the recruitment process and education at the doctoral school, in accordance with the form generated by the system during registration.

§ 3

1. At the request of the head of the doctoral school, the Rector shall appoint recruitment committees, separately for each discipline within which recruitment to the doctoral school is conducted.

2. Each recruitment committee shall consist of:

a) the head of the doctoral school, who shall serve as the chairperson;

b) the head/coordinator of the academic discipline in which the recruitment process to the doctoral school is conducted;

c) two individuals holding the title of professor or at least the academic degree of doktor habilitowany, designated by the head of the discipline within which recruitment is conducted;

d) a representative of the doctoral student self-government;

e) a secretary, designated by the head of the doctoral school.

3. Recruitment committees are appointed for an academic year.

4. The head of the doctoral school directs the work of the recruitment committees.

5. The responsibilities of the recruitment committees include:

a) conducting the recruitment process;

b) preparing ranking lists of candidates for the doctoral school within the disciplines in which the admissions process is conducted;

c) reviewing applications for reconsideration of a case regarding a refusal to admit to the doctoral school.

6. During the meeting of the admissions committee, only committee members may be present in the meeting room.

7. The head of the doctoral school may invite other persons to the meeting of the admissions committee. The presence of persons other than committee members and candidates is recorded in the minutes referred to in § 13.

8. Members of the admissions committee are obligated to maintain impartiality and objectivity in assessing candidates for the doctoral school.

9. A member of the admissions committee shall inform the other members of the admissions committee of any circumstances that may affect their impartiality and objectivity in assessing a candidate for the doctoral school.

10. The admissions committee may decide to exclude a committee member from the evaluation process for a given candidate if their participation in the process could raise reasonable doubts.

11. Members of the selection committee, with the exception of the secretary, have equal voting rights.

12. Resolutions of the selection committee are adopted by a simple majority vote, with at least half of the selection committee members present. In the event of an equal number of votes for and against, the chairperson has the casting vote. 1

3. Minutes of selection committee meetings are kept, and the minutes are signed by the chairperson and the committee members who participated in the meeting.

§ 4

1. The recruitment process is conducted by recruitment committees separately for each discipline in which recruitment to the doctoral school takes place.

2. The purpose of the recruitment process is to select the best candidates for the doctoral school based on a description of the proposed research topic, an interview, and an assessment of the candidates' previous experience and scientific achievements, in accordance with the criteria presented in Annex 1.

3. The recruitment process is conducted in two stages:

a) Stage I consists of verifying the completeness of the documents referred to in § 2, section 5 and § 1, section 10, as well as assessing the description of the specified research topic;

b) Stage II consists of assessing the candidate's experience and scientific achievements based on the interview.

4. During the process, members of the recruitment committees individually evaluate the criteria presented in Table 1 for each candidate, in accordance with Annexes 2a and 2b to these rules.

5. The elements specified in Annex 2a to these rules are subject to evaluation in Stage I.

6. The conditions for qualifying a candidate for Stage II of the recruitment process are:

a) completeness of the documents referred to in § 2, Section 5 and § 1, Section 10,

b) obtaining a minimum of 30 points in Stage I of the recruitment process.

7. During the interview, the candidate is required to present documents confirming their previous scientific activity, in particular: scientific publications, participation in conferences, and research projects.

8. The interview will be conducted in Polish.

9. Only the candidate's scientific activity from the period from October 1, 2014 inclusive may be taken into account in the recruitment process.

10. The number of points obtained by the candidate in Stage I and Stage II of the recruitment process is the arithmetic average of the individual ratings of the members of the selection committee.

11. Individual evaluations by individual members of the admissions committee are anonymous.

12. After completing the admissions process, admissions committees prepare ranking lists for each discipline and submit them in writing to the head of the doctoral school no later than September 18th.

13. The ranking list for a given discipline includes the candidate's first and last name and the number of points awarded during the admissions process.

14. The maximum number of points a candidate can obtain in the admissions process is 80.

15. The condition for a candidate to be included on the list of doctoral students by the head of the doctoral school is that they obtain at least 60 points during the admissions process and do not exceed the quota of places established by the rector.

16. A candidate who obtains the minimum or higher number of points during the admissions process but exceeds the quota of places will be placed on a reserve list and may be admitted provided that places become available by October 15th.

17. A candidate on the reserve list will be added to the doctoral student list if there are any available places, in the order of points obtained.

18. For candidates applying for a place at a doctoral school in the same discipline and with the same number of points obtained in the admissions process, the grade on the diploma of the second-cycle or long-cycle master's degree program is considered. In the case of identical grades, the grade point average obtained during the studies, calculated to two decimal places, indicating the grading scale used by the university. In the aforementioned case, the higher grade determines admission to the doctoral school.

19. Ranking lists within the disciplines in which the admissions process is conducted are signed by all members of the admissions committee in the given discipline.

§ 5

The recruitment deadlines for individual disciplines are presented in the table:

Discipline	**Deadline for the recruitment procedure**	**Place of conducting the recruitment procedure**
Technical computer science and telecommunications	11.09.2019 r., at 10:00	The location of the recruitment process will be announced on the doctoral school website and at the doctoral school administrative office.
materials engineering	12.09.2019 r., at 10:00	
mechanical engineering	13.09.2019 r., at 10:00	
environmental engineering, mining and energy	16.09.2019 r., at 10:00	
automation, electronics and electrical engineering	17.09.2019 r., at 10:00	
management science and quality	10.09.2019 r., at 10:00	

The results of the recruitment process will be announced on September 23, 2019 and made available via the IRK system and at the administrative office of the doctoral school.

§ 6

1. The competition results are public.
2. The basis for the preparation by the head of the doctoral school of the list of doctoral students admitted to the doctoral school is the ranking lists submitted by the recruitment committees for each discipline within which recruitment to the doctoral school takes place.
3. The candidate's position on the ranking list within a given discipline and the quota of places established by the rector for each discipline constitute the basis for admission to the doctoral school.
4. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.
5. Refusal of admission to the doctoral school is made by way of an administrative decision.
6. The decision refusing admission to the doctoral school is signed by the head of the doctoral school.
7. The candidate has the right to request a reconsideration of the decision refusing admission to the doctoral school within 14 days of its receipt.
8. A request for reconsideration may only be based on a violation of the doctoral school's admissions conditions and procedures. The request should specify the specific provisions specifying the doctoral school's admissions conditions and procedures that, in the applicant's opinion, were violated.

§ 7

1. All personal data provided by candidates is processed and stored for registration purposes in accordance with applicable regulations and is subject to protection.
2. The University is not responsible for the consequences of a candidate's failure to review the messages posted in their personal registration account.

Appendix No. 1
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2019/2020 academic year (Resolution No. 281/2018/2019 of the Senate of the Częstochowa University of Technology of May 29, 2019)

Table 1. Criteria for assessing the candidate's achievements in the recruitment process

No..	Criteria	Number of points	Maximum number of points	Notes
stage I				
1.	Specified research problem	0÷30	30	The following will be assessed: • the ability to define the research question and indicate its intended purpose, • the consistency of the proposed question with the research issues within the scientific discipline in which recruitment is being conducted, • the originality of the proposed question.
2.	Opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic or, in his absence, the opinion of the recruitment committee for the relevant discipline	0 or 10	10	positive – 10 negative – 0
stage II				
3.	An interview on issues related to the scientific discipline in which the recruitment takes place	0÷20	20	When determining the outcome of the interview, the following are taken into account: • understanding of the issues addressed, substantive knowledge, linguistic accuracy, and the ability to use scientific language appropriate to the scientific discipline in which the training will take place: Very good - 20 Good plus - 15 Good - 10 Satisfactory plus - 8 Satisfactory - 5 Unsatisfactory - 0
4.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	5	0 - none 3 - related discipline 5 - discipline in which recruitment takes place
5.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1, or 3, or 4	4	Very good - 4 Good plus - 3 Good – 1 <Good – 0
6.	Scientific activity in the field for which recruitment is	0÷3	3	

	being conducted: - scientific publications, - conference participation - etc.			0,5 for activity
7.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	3	0,5 for activity
8.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	5	B2 and higher – 5 B1 – 3 other – 1 none - 0
Maximum number of points that can be obtained : 80				

Appendix No. 2a
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2019/2020 academic year (Resolution No. 281/2018/2019 of the Senate of the Częstochowa University of Technology of May 29, 2019)

Stage I

Table 2a. Assessment of Candidate Performance in the Recruitment Process

Candidates' Name and Surname: : ……...

Discipline: ……

Criterion for assessing a specific research issue	Number of points possible to obtain	Number of points obtained by a candidate
The ability to define a research problem and indicate the intended goal	10	
Compatibility of the proposed issue with the research issues within the scientific discipline in which recruitment is conducted	10	
The originality of the proposed problem	10	
Opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic or, in his absence, the opinion of the recruitment committee for the relevant discipline	10	
Total number of points obtained by a candidate		

Appendix No. 2b
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2019/2020 academic year (Resolution No. 281/2018/2019 of the Senate of the Częstochowa University of Technology of May 29, 2019)

Stage II

Table 2a. Assessment of Candidate Performance in the Recruitment Process

Candidates' Name and Surname: : ……...

Discipline: ……

No.	Kryterium	Number of points possible to obtain	Number of points obtained by the candidate
1.	An interview on issues related to the scientific discipline in which the recruitment takes place	0÷20	
2.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	
3.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1, or 3, or 4	
4.	Scientific activity in the field for which recruitment is being conducted: - scientific publications, - conference participation - etc.	0÷3	
5.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	
6.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	
Total number of points obtained by the candidate			

Appendix No. 3
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2019/2020 academic year (Resolution No. 281/2018/2019 of the Senate of the Częstochowa University of Technology of May 29, 2019)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration
I declare that I do not hold* a doctoral degree.

..……..……
date and signature of the candidate

* delete what is unnecessary

Appendix No. 4
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2019/2020 academic year (Resolution No. 281/2018/2019 of the Senate of the Częstochowa University of Technology of May 29, 2019)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am/am not* employed as an academic teacher or researcher under the conditions specified in art. 209 section 10 of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended).

..……
date and signature of the candidate

* * delete what is unnecessary

Appendix No. 5
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2019/2020 academic year (Resolution No. 281/2018/2019 of the Senate of the Częstochowa University of Technology of May 29, 2019)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am starting my education at one doctoral school and that it is the Doctoral School of the Czestochowa University of Technology.

..……
date and signature of the candidate

* * delete what is unnecessary

Resolution No. 385/2019/2020
of the Senate of the Częstochowa University of Technology
of February 12, 2020

regarding: the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology conducted in the 2019/2020 academic year

1. The Senate of the Częstochowa University of Technology, pursuant to Article 200, paragraph 2 of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2020, item 85, as amended) in an open vote, determined the terms and procedure for admission to the Doctoral School of the Częstochowa University of Technology for the 2020/2021 academic year, in accordance with the Annex to this Resolution.

2. This Resolution comes into effect on the date of its adoption.

Rector

Appendix
to the (Resolution No. 385/2019/2020 of the Senate of the Częstochowa University of Technology of February 12, 2020)

Rules for Admission
to the Doctoral School of the Częstochowa University of Technology
in the 2020/2021 academic year

§ 1

1. The admission requirements for the Doctoral School of the Częstochowa University of Technology, hereinafter referred to as the Doctoral School, are specified in the following scientific fields/disciplines: dyscyplinach naukowych:

field of science	**Discipline**
Engineering and technical sciences	- Automation, electronics, and electrical engineering - Technical computer science and telecommunications - Materials engineering - Mechanical engineering - Environmental engineering, mining, and energy
Social sciences	- Management and quality sciences

2. By participating in the recruitment process, the Candidate accepts the regulations of the Doctoral School of the Częstochowa University of Technology and the Rules of Admission to the Doctoral School of the Częstochowa University of Technology.

3. A person holding a professional title of: Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, Section 2, of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2020, item 85, as amended), hereinafter referred to as the Act, may be admitted to the doctoral school.

4. Recruitment to the doctoral school is conducted through a competition:

a) regular, enabling the commencement of education at the doctoral school on October 1,

b) special, enabling the commencement of education at the doctoral school twice a year outside the established dates, linked to the results of competitions for places in which the doctoral scholarship is financed from sources other than the funds indicated in Article 409 of the Act.

5. The limit of places for the first year of education at the doctoral school for regular recruitment is established by the Rector.

6. Doctoral students admitted through special recruitment do not count against the admission limits established by the Rector.

7. At the request of the Head of the Doctoral School, the Rector may approve the announcement of supplementary recruitment.

8. Foreigners may undertake studies at the Doctoral School based on currently applicable regulations.

9. Foreigners who possess sufficient Polish language proficiency to undertake studies in this language may apply for admission to the Doctoral School.

10. Foreigners are required to submit a certificate confirming knowledge of the Polish language at least at level B1, issued by the State Commission for the Certification of Proficiency in Polish as a Foreign Language, or a certificate confirming completion of a preparatory course for studies in Polish at an institution designated by the Minister of Science and Higher Education, or a certificate issued by the Częstochowa University of Technology confirming that their level of Polish language proficiency allows them to undertake studies in this language.

11. If a person applying for admission to the doctoral school has been subject to a disciplinary penalty or has been convicted by a final judgment for an intentional offence or an intentional tax offence, that person is obliged to inform the head of the doctoral school thereof in writing.

§ 2

1. Registration of candidates for the doctoral school is conducted in the IRK system from August 10, 2020, from 8:00 AM to September 30, 2020, at 11:59 PM.

2. The Częstochowa University of Technology is not responsible for the inability to register or make changes due to network outages beyond the University's control or periodic overloads of the University's servers.

3. Online registration is considered successful if all required data is entered by the candidate.

4. The candidate is obligated to keep the password to their personal registration account confidential. The University is not responsible for the consequences of sharing this password with third parties, in particular for changes to entries authorized by this password.

5. After registering in the IRK system, the candidate must submit the following documents to the doctoral school's administrative office between August 17 th and 31th, 2020:

a) an application for admission to the doctoral school generated from the IRK system;

b) original confirmation of payment of the recruitment fee;

c) a summary of the candidate's professional experience (maximum 4 A4 pages, Times New Roman 12 font, 1.5 line spacing) containing, among other things:

• a description of the specific research topic, taking into account the criteria contained in Annex 2a to these regulations;

• a description of the topic of the doctoral dissertation in the case of a candidate participating in doctoral studies at the Częstochowa University of Technology, other than the topic of the research topic proposed for implementation as part of the doctoral school education;

• a description of research activity, including, among other things, scientific publications, participation in scientific conferences and research projects;

• information on completed courses and certificates;

d) Graduates of foreign universities must submit their original higher education diploma, and in the case of a diploma that, in accordance with applicable legal regulations, is subject to recognition through the nostrification process, a certificate issued by the entity performing the nostrification confirming the equivalence of the diploma obtained abroad with a higher education diploma obtained in Poland;

e) an opinion from the head of the discipline regarding the feasibility of implementing the proposed research topic;

f) an identity document (e.g., ID card, passport, Polish Card) – original available for inspection;

d) a certified copy of the diplomas of completion of first- and second-cycle studies or long-cycle master's studies;

h) a copy of a document confirming a change of name (applies to individuals with a diploma issued in a name different from the one on the application for admission to doctoral school) – original available for inspection;

i) three photographs, against a light background, without headgear (45 mm x 65 mm);

j) copies of certificates confirming knowledge of foreign languages;

k)copies of certificates confirming knowledge of foreign languages and specialized computer programs, completed postgraduate studies, and courses related to the discipline in which recruitment to the doctoral school is conducted (certified as true copies of the original) – if the candidate has them;

l) declaration of not holding a doctoral degree (Annex 3 to these rules);

m) declaration of employment as an academic teacher or researcher under the terms specified in Art. 209, Section 10 of the Act (Annex 4 to these rules);

n) declaration of commencement of education at one doctoral school in accordance with Art. 200, Section 7 of the Law on Higher Education and Science (Annex 5 to these rules);

o) consent to the processing of personal data for the purposes of the recruitment process and education at the doctoral school, in accordance with the form generated by the system during registration.

§ 3

1. At the request of the head of the doctoral school, the Rector shall appoint recruitment committees, separately for each discipline within which recruitment to the doctoral school is conducted.

2. Each recruitment committee shall consist of:

a) the head of the doctoral school, who shall serve as the chairperson;

b) the head/coordinator of the academic discipline in which the recruitment process to the doctoral school is conducted;

c) two individuals holding the title of professor or at least the academic degree of doktor habilitowany, designated by the head of the discipline within which recruitment is conducted;

d) a representative of the doctoral student self-government;

e) a secretary, designated by the head of the doctoral school.

3. Recruitment committees are appointed for an academic year.

4. The head of the doctoral school directs the work of the recruitment committees.

5. The responsibilities of the recruitment committees include:

a) conducting the recruitment process;

b) preparing ranking lists of candidates for the doctoral school within the disciplines in which the admissions process is conducted;

c) reviewing applications for reconsideration of a case regarding a refusal to admit to the doctoral school.

6. During the meeting of the admissions committee, only committee members may be present in the meeting room.

7. The head of the doctoral school may invite other persons to the meeting of the admissions committee. The presence of persons other than committee members and candidates is recorded in the minutes referred to in § 13.

8. Members of the admissions committee are obligated to maintain impartiality and objectivity in assessing candidates for the doctoral school.

9. A member of the admissions committee shall inform the other members of the admissions committee of any circumstances that may affect their impartiality and objectivity in assessing a candidate for the doctoral school.

10. The admissions committee may decide to exclude a committee member from the evaluation process for a given candidate if their participation in the process could raise reasonable doubts.

11. Members of the selection committee, with the exception of the secretary, have equal voting rights.

12. Resolutions of the selection committee are adopted by a simple majority vote, with at least half of the selection committee members present. In the event of an equal number of votes for and against, the chairperson has the casting vote. 1

13. Minutes of selection committee meetings are kept, and the minutes are signed by the chairperson and the committee members who participated in the meeting.

§ 4

1. The recruitment process is conducted by recruitment committees separately for each discipline in which recruitment to the doctoral school takes place.

2. The purpose of the recruitment process is to select the best candidates for the doctoral school based on a description of the proposed research topic, an interview, and an assessment of the candidates' previous experience and scientific achievements, in accordance with the criteria presented in Annex 1.

3. The recruitment process is conducted in two stages:

a) Stage I consists of verifying the completeness of the documents referred to in § 2, section 5 and § 1, section 11, as well as assessing the description of the specified research topic and the opinions of the heads of the discipline regarding the possibility of its implementation;

b) Stage II consists of assessing the candidate's experience and scientific achievements based on the interview.

4. During the process, members of the recruitment committees individually evaluate the criteria presented in Table 1 for each candidate, in accordance with Annexes 2a and 2b to these rules.

5. The elements specified in Annex 2a to these rules are subject to evaluation in Stage I.

6. The conditions for qualifying a candidate for Stage II of the recruitment process are:

a) completeness of the documents referred to in § 2, Section 5 and § 1, Section 11,

b) obtaining a minimum of 30 points in Stage I of the recruitment process.

7. During the interview, the candidate is required to present documents confirming their previous scientific activity, in particular: scientific publications, participation in conferences, and research projects.

8. The interview will be conducted in Polish.

9. Only the candidate's scientific activity from the period from October 1, 2015 inclusive may be taken into account in the recruitment process.

10. The number of points obtained by the candidate in Stage I and Stage II of the recruitment process is the arithmetic average of the individual ratings of the members of the selection committee.

11. Individual evaluations by individual members of the admissions committee are anonymous.

12. After completing the admissions process, admissions committees prepare ranking lists for each discipline and submit them in writing to the head of the doctoral school no later than September 15th.

13. The ranking list for a given discipline includes the candidate's first and last name and the number of points awarded during the admissions process.

14. The maximum number of points a candidate can obtain in the admissions process is 80.

15. The condition for a candidate to be included on the list of doctoral students by the head of the doctoral school is that they obtain at least 60 points during the admissions process and do not exceed the quota of places established by the rector.

16. A candidate who obtains the minimum or higher number of points during the admissions process but exceeds the quota of places will be placed on a reserve list and may be admitted provided that places become available by October 15th.

17. A candidate on the reserve list will be added to the doctoral student list if there are any available places, in the order of points obtained.

18. For candidates applying for a place at a doctoral school in the same discipline and with the same number of points obtained in the admissions process, the grade on the diploma of the second-cycle or long-cycle master's degree program is considered. In the case of identical grades, the grade point average obtained during the studies, calculated to two decimal places, indicating the grading scale used by the university. In the aforementioned case, the higher grade determines admission to the doctoral school.

19. Ranking lists within the disciplines in which the admissions process is conducted are signed by all members of the admissions committee in the given discipline.

§ 5

The recruitment deadlines for individual disciplines are presented in the table:

Discipline	**Deadline for the recruitment procedure**	**Place of conducting the recruitment procedure**
Technical computer science and telecommunications	3.09.2020 r., at 10:00	The location of the recruitment process will be announced on the doctoral school website and at the doctoral school administrative office.
management science and quality	4.09.2020 r., at 10:00	
mechanical engineering	7.09.2020 r., at 10:00	

environmental engineering, mining and energy	8.09.2020 r., at 10:00
materials engineering	9.09.2020 r., at 10:00
automation, electronics and electrical engineering	10.09.2020 r., at 10:00

The results of the recruitment process will be announced on September 19, 2020 and made available via the IRK system and at the administrative office of the doctoral school.

§ 6

1. The competition results are public.
2. The basis for the preparation by the head of the doctoral school of the list of doctoral students admitted to the doctoral school is the ranking lists submitted by the recruitment committees for each discipline within which recruitment to the doctoral school takes place.
3. The candidate's position on the ranking list within a given discipline and the quota of places established by the rector for each discipline constitute the basis for admission to the doctoral school.
4. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.
5. Refusal of admission to the doctoral school is made by way of an administrative decision.
6. The decision refusing admission to the doctoral school is signed by the head of the doctoral school.
7. The candidate has the right to request a reconsideration of the decision refusing admission to the doctoral school within 14 days of its receipt.
8. A request for reconsideration may only be based on a violation of the doctoral school's admissions conditions and procedures. The request should specify the specific provisions specifying the doctoral school's admissions conditions and procedures that, in the applicant's opinion, were violated.

§ 7

1. All personal data provided by candidates is processed and stored for registration purposes in accordance with applicable regulations and is subject to protection.
2. The University is not responsible for the consequences of a candidate's failure to review the messages posted in their personal registration account.

Appendix No. 1
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2020/2021 academic year (Resolution No.385/2019/2020 of the Senate of the Częstochowa University of Technology of february 12, 2020)

Table 1. Criteria for assessing the candidate's achievements in the recruitment process

No..	Criteria	Number of points	Maximum number of points	Notes
stage I				
1.	Specified research problem	0÷30	30	The following will be assessed: • the ability to define the research question and indicate its intended purpose, • the consistency of the proposed question with the research issues within the scientific discipline in which recruitment is being conducted, • the originality of the proposed question.
2.	Opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic or, in his absence, the opinion of the recruitment committee for the relevant discipline	0 or 10	10	positive – 10 negative – 0
stage II				
3.	An interview on issues related to the scientific discipline in which the recruitment takes place	0÷20	20	When determining the outcome of the interview, the following are taken into account: • understanding of the issues addressed, substantive knowledge, linguistic accuracy, and the ability to use scientific language appropriate to the scientific discipline in which the training will take place: Very good - 20 Good plus - 15 Good - 10 Satisfactory plus - 8 Satisfactory - 5 Unsatisfactory - 0
4.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	5	0 - none 3 - related discipline 5 - discipline in which recruitment takes place
5.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1, or 3, or 4	4	Very good - 4 Good plus - 3 Good – 1 <Good – 0
6.	Scientific activity in the field for which recruitment is	0÷3	3	

	being conducted: - scientific publications, - conference participation - etc.			0,5 for activity
7.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	3	0,5 for activity
8.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	5	B2 and higher – 5 B1 – 3 other – 1 none - 0
Maximum number of points that can be obtained : 80				

Appendix No. 2a
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2020/2021 academic year (Resolution No. 385/2019/2020 of the Senate of the Częstochowa University of Technology of February 12, 2020)

Stage I

Table 2a. Assessment of Candidate Performance in the Recruitment Process

Candidates' Name and Surname: : ……...

Discipline: ……

Criterion for assessing a specific research issue	Number of points possible to obtain	Number of points obtained by a candidate
The ability to define a research problem and indicate the intended goal	10	
Compatibility of the proposed issue with the research issues within the scientific discipline in which recruitment is conducted	10	
The originality of the proposed problem	10	
Opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic or, in his absence, the opinion of the recruitment committee for the relevant discipline	10	
Total number of points obtained by a candidate		

Appendix No. 2b
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2020/2021 academic year (Resolution No. 385/2019/2020 of the Senate of the Częstochowa University of Technology of february 12, 2020)

Stage II

Table 2a. Assessment of Candidate Performance in the Recruitment Process

Candidates' Name and Surname: : ……...

Discipline: ……

No.	Kryterium	Number of points possible to obtain	Number of points obtained by the candidate
1.	An interview on issues related to the scientific discipline in which the recruitment takes place	0÷20	
2.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	
3.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies or first degree for persons referred to in Article 186 paragraph 2 of the Act	0 or 1, or 3, or 4	
4.	Scientific activity in the field for which recruitment is being conducted: - scientific publications, - conference participation - etc.	0÷3	
5.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	
6.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	
Total number of points obtained by the candidate			

Appendix No. 3
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2020/2021 academic year (Resolution No. 385/2019/2020 of the Senate of the Częstochowa University of Technology of February 12, 2020)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration
I declare that I do not hold* a doctoral degree.

..……..……
date and signature of the candidate

* delete what is unnecessary

Appendix No. 4
t to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2020/2021 academic year (Resolution No. 385/2019/2020 of the Senate of the Częstochowa University of Technology of February 12, 2020)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am/am not* employed as an academic teacher or researcher under the conditions specified in art. 209 section 10 of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2020, item 85, as amended).

..……
date and signature of the candidate

* * delete what is unnecessary

Appendix No. 5
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2020/2021 academic year (Resolution No. 385/2019/2020 of the Senate of the Częstochowa University of Technology of February 12, 2020)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am starting my education at one doctoral school and that it is the Doctoral School of the Czestochowa University of Technology.

..……
date and signature of the candidate

* * delete what is unnecessary

Resolution No. 21/2020/2021
of the Senate of the Częstochowa University of Technology
of February 24, 2021

regarding: the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology conducted in the 2021/2022 academic year

1. The Senate of the Częstochowa University of Technology, pursuant to Article 200 paragraph 2 of the Act of 20 July 2018 - Law on Higher Education and Science (consolidated text: Journal of Laws of 2020, item 85, as amended), in an open vote, determined the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology in the academic year 2021/2022, in accordance with the annex to this resolution.

2. This Resolution comes into effect on the date of its adoption.

Rector

Appendix
to the Resolution No. 21/2020/2021 of the Senate of the Częstochowa University of Technology

of February 24, 2021

Rules for Admission
to the Doctoral School of the Częstochowa University of Technology
in the 2021/2022 academic year

§ 1

1. The admission requirements for the Doctoral School of the Częstochowa University of Technology, hereinafter referred to as the Doctoral School, are specified in the following scientific fields/disciplines:
dyscyplinach naukowych:

field of science	**Discipline**
Engineering and technical sciences	- Automation, electronics, and electrical engineering - Technical computer science and telecommunications - Materials engineering - Mechanical engineering - Environmental engineering, mining, and energy
Social sciences	- Management and quality sciences

2. By participating in the recruitment process, the Candidate accepts the regulations of the Doctoral School of the Częstochowa University of Technology and the Rules of Admission to the Doctoral School of the Częstochowa University of Technology.

3. A person holding a professional title of: Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, Section 2, of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2020, item 85, as amended), hereinafter referred to as the Act, may be admitted to the doctoral school.

4. Recruitment to the doctoral school is conducted through a competition:

a) regular, enabling the commencement of education at the doctoral school on October 1,

b) special, enabling the commencement of education at the doctoral school twice a year outside the established dates, linked to the results of competitions for places in which the doctoral scholarship is financed from sources other than the funds indicated in Article 409 of the Act.

5. The limit of places for the first year of education at the doctoral school for regular recruitment is established by the Rector.

6. Doctoral students admitted through special recruitment do not count against the admission limits established by the Rector.

7. At the request of the Head of the Doctoral School, the Rector may approve the announcement of supplementary recruitment.

8. Candidates with disabilities or chronic illnesses are provided with assistance and facilities during the recruitment process tailored to their individual needs. The Rector's Representative for Persons with Disabilities determines the form of assistance during the recruitment process individually for each candidate with a disability or chronic illness based on an analysis of the submitted medical documentation.

9. Foreigners may undertake studies at the Doctoral School based on currently applicable regulations.

10. Foreigners who possess sufficient Polish language proficiency to undertake studies in this language may apply for admission to the Doctoral School.

11. Foreigners are required to submit a certificate confirming knowledge of the Polish language at least at level B1, issued by the State Commission for the Certification of Proficiency in Polish as a Foreign Language, or a certificate confirming completion of a preparatory course for studies in Polish at an institution designated by the Minister of Science and Higher Education, or a certificate issued by the Częstochowa University of Technology confirming that their level of Polish language proficiency allows them to undertake studies in this language.

12. If a person applying for admission to the doctoral school has been subject to a disciplinary penalty or has been convicted by a final judgment for an intentional offence or an intentional tax offence, that person is obliged to inform the head of the doctoral school thereof in writing.

§ 2

1. Registration of candidates for the doctoral school is conducted in the IRK system from August 9, 2021, from 8:00 AM to September 27, 2021, at 11:59 PM.

2. The Częstochowa University of Technology is not responsible for the inability to register or make changes due to network outages beyond the University's control or periodic overloads of the University's servers.

3. Online registration is considered successful if all required data is entered by the candidate.

4. The candidate is obligated to keep the password to their personal registration account confidential. The University is not responsible for the consequences of sharing this password with third parties, in particular for changes to entries authorized by this password.

5. After registering in the IRK system and paying the PLN 150 application fee to the account number provided in the system, the candidate must submit the following documents to the doctoral school's administrative office between August 17 and August 31, 2021:

a) an application for admission to the doctoral school generated from the IRK system;

b) the original confirmation of payment of the application fee;

c) the Rector's consent to undertake studies at the doctoral school (applies to individuals who are employees of the University); d) a self-report signed by the candidate (maximum 4 A4 pages, Times New Roman 12 font, 1.5 line spacing) containing, among other things:

• a description of the specific research topic, taking into account the criteria contained in Annex 2a to these rules,

• a description of the topic of the doctoral dissertation in the case of a candidate participating in doctoral studies at Częstochowa University of Technology, other than the topic of the research topic proposed for implementation as part of the doctoral school education,

• a description of research activity, including, among other things, scientific publications, participation in scientific conferences and research projects,

• information on completed courses and certificates obtained;

e) graduates of foreign universities must submit the original of their higher education diploma, and in the case of a diploma that, in accordance with applicable legal provisions, is subject to recognition through nostrification, also a certificate issued by the entity performing the nostrification confirming the equivalence of the diploma obtained abroad with a higher education diploma obtained in Poland;

f) the opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic;

g) an identity document (e.g., ID card, passport, Polish Citizen's Card) – original available for inspection;

h) a certified true copy of the diplomas of first- and second-cycle studies or long-cycle master's studies;

i) a copy of a document confirming a change of name (applies to individuals with a diploma issued in a name different from the one on the application for admission to the doctoral school) – original available for inspection;

j) three photographs, against a light background, without headgear (45 mm x 65 mm);

k) copies of certificates confirming knowledge of foreign languages;

l) copies of up to six certificates confirming knowledge of specialized computer programs, completed postgraduate studies, and courses related to the discipline within which the doctoral school is recruiting (certified true copies) – if the candidate has them;

m) a declaration of not holding a doctoral degree (Appendix 3 to these rules);

n) declaration of employment as an academic teacher or researcher under the terms specified in Article 209, Section 10 of the Act (Annex 4 to these rules);

o) declaration of commencement of education at one doctoral school in accordance with Article 200, Section 7 of the Act on Higher Education and Science (Annex 5 to these rules);

p) application for support in the recruitment process (applies to individuals with disabilities or chronic illnesses);

q) consent to the processing of personal data for the purposes of the recruitment process and education at the doctoral school, in accordance with the form generated by the system during registration.

§ 3

1. At the request of the head of the doctoral school, the Rector shall appoint recruitment committees, separately for each discipline within which recruitment to the doctoral school is conducted.

2. Each recruitment committee shall consist of:

a) the head of the doctoral school, who shall serve as the chairperson;

b) the head/coordinator of the academic discipline in which the recruitment process to the doctoral school is conducted;

c) two individuals holding the title of professor or at least the academic degree of doktor habilitowany, designated by the head of the discipline within which recruitment is conducted;

d) a representative of the doctoral student self-government;

e) a secretary, designated by the head of the doctoral school.

3. Recruitment committees are appointed for an academic year.

4. The head of the doctoral school directs the work of the recruitment committees.

5. The responsibilities of the recruitment committees include:

a) conducting the recruitment process;

b) preparing ranking lists of candidates for the doctoral school within the disciplines in which the admissions process is conducted;

c) reviewing applications for reconsideration of a case regarding a refusal to admit to the doctoral school.

6. During the meeting of the admissions committee, only committee members may be present in the meeting room.

7. The head of the doctoral school may invite other persons to the meeting of the admissions committee. The presence of persons other than committee members and candidates is recorded in the minutes referred to in § 13.

8. Members of the admissions committee are obligated to maintain impartiality and objectivity in assessing candidates for the doctoral school.

9. A member of the admissions committee shall inform the other members of the admissions committee of any circumstances that may affect their impartiality and objectivity in assessing a candidate for the doctoral school.

10. The admissions committee may decide to exclude a committee member from the evaluation process for a given candidate if their participation in the process could raise reasonable doubts.

11. Members of the selection committee, with the exception of the secretary, have equal voting rights.

12. Resolutions of the selection committee are adopted by a simple majority vote, with at least half of the selection committee members present. In the event of an equal number of votes for and against, the chairperson has the casting vote. 1

13. Minutes of selection committee meetings are kept, and the minutes are signed by the chairperson and the committee members who participated in the meeting.

§ 4

1. The recruitment process is conducted by recruitment committees separately for each discipline in which recruitment to the doctoral school takes place.

2. The purpose of the recruitment process is to select the best candidates for the doctoral school based on a description of the proposed research topic, an interview, and an assessment of the candidates' previous experience and scientific achievements, in accordance with the criteria presented in Annex 1.

3. The recruitment process is conducted in two stages:

a) Stage I consists of verifying the completeness of the documents referred to in § 2, section 5 and § 1, section 11, as well as assessing the description of the specified research topic and the opinions of the heads of the discipline regarding the possibility of its implementation;

b) Stage II consists of assessing the candidate's experience and scientific achievements based on the interview.

4. During the process, members of the recruitment committees individually evaluate the criteria presented in Table 1 for each candidate, in accordance with Annexes 2a and 2b to these rules.

5. The elements specified in Annex 2a to these rules are subject to evaluation in Stage I.

6. The conditions for qualifying a candidate for Stage II of the recruitment process are:

a) completeness of the documents referred to in § 2, Section 5 and § 1, Section 11,

b) obtaining a minimum of 30 points in Stage I of the recruitment process.

7. During the interview, the candidate is required to present documents confirming their previous scientific activity, in particular: scientific publications, participation in conferences, and research projects.

8. The interview will be conducted in Polish.

9. Only the candidate's scientific activity from the period from October 1, 2016 inclusive may be taken into account in the recruitment process.

10. The number of points obtained by the candidate in Stage I and Stage II of the recruitment process is the arithmetic average of the individual ratings of the members of the selection committee.

11. Individual evaluations by individual members of the admissions committee are anonymous.

12. After completing the admissions process, admissions committees prepare ranking lists for each discipline and submit them in writing to the head of the doctoral school no later than September 15th.

13. The ranking list for a given discipline includes the candidate's first and last name and the number of points awarded during the admissions process.

14. The maximum number of points a candidate can obtain in the admissions process is 80.

15. The condition for a candidate to be included on the list of doctoral students by the head of the doctoral school is that they obtain at least 60 points during the admissions process and do not exceed the quota of places established by the rector.

16. A candidate who obtains the minimum or higher number of points during the admissions process but exceeds the quota of places will be placed on a reserve list and may be admitted provided that places become available by October 15th.

17. A candidate on the reserve list will be added to the doctoral student list if there are any available places, in the order of points obtained.

18. For candidates applying for a place at a doctoral school in the same discipline and with the same number of points obtained in the admissions process, the grade on the diploma of the second-cycle or long-cycle

master's degree program is considered. In the case of identical grades, the grade point average obtained during the studies, calculated to two decimal places, indicating the grading scale used by the university. In the aforementioned case, the higher grade determines admission to the doctoral school.

19. Ranking lists within the disciplines in which the admissions process is conducted are signed by all members of the admissions committee in the given discipline.

§ 5

The recruitment deadlines for individual disciplines are presented in the table:

Discipline	**Deadline for the recruitment procedure**	**Place of conducting the recruitment procedure**
Technical computer science and telecommunications	6.09.2021 , at 10:00	The location of the recruitment process will be announced on the doctoral school website and at the doctoral school administrative office.
management science and quality	7.09.2021 , at 10:00	
mechanical engineering	8.09.2021 , at 10:00	
environmental engineering, mining and energy	9.09.2021 r., at 10:00	
materials engineering	10.09.2021, at 10:00	
automation, electronics and electrical engineering	13.09.2021, at 10:00	

The results of the recruitment process will be announced on September 17, 2021 and made available via the IRK system and at the administrative office of the doctoral school.

§ 6

1. The competition results are public.
2. The basis for the preparation by the head of the doctoral school of the list of doctoral students admitted to the doctoral school is the ranking lists submitted by the recruitment committees for each discipline within which recruitment to the doctoral school takes place.
3. The candidate's position on the ranking list within a given discipline and the quota of places established by the rector for each discipline constitute the basis for admission to the doctoral school.
4. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.
5. Refusal of admission to the doctoral school is made by way of an administrative decision.
6. The decision refusing admission to the doctoral school is signed by the head of the doctoral school.
7. The candidate has the right to request a reconsideration of the decision refusing admission to the doctoral school within 14 days of its receipt.
8. A request for reconsideration may only be based on a violation of the doctoral school's admissions conditions and procedures. The request should specify the specific provisions specifying the doctoral school's admissions conditions and procedures that, in the applicant's opinion, were violated.

§ 7

1. All personal data provided by candidates is processed and stored for registration purposes in accordance with applicable regulations and is subject to protection.
2. The University is not responsible for the consequences of a candidate's failure to review the messages posted in their personal registration account.

Appendix No. 1
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2021/2022 academic year (Resolution No.321/2020/2021 of the Senate of the Częstochowa University of Technology of february 24, 2021)

Table 1. Criteria for assessing the candidate's achievements in the recruitment process

No..	Criteria	Number of points	Maximum number of points	Notes
stage I				
1.	Specified research problem	0÷30	30	The following will be assessed: • the ability to define the research question and indicate its intended purpose, • the consistency of the proposed question with the research issues within the scientific discipline in which recruitment is being conducted, • the originality of the proposed question.
2.	Opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic or, in his absence, the opinion of the recruitment committee for the relevant discipline	0 or 10	10	positive – 10 negative – 0
stage II				
3.	An interview on issues related to the scientific discipline in which the recruitment takes place	0÷20	20	When determining the outcome of the interview, the following are taken into account: • understanding of the issues addressed, substantive knowledge, linguistic accuracy, and the ability to use scientific language appropriate to the scientific discipline in which the training will take place: Very good - 20 Good plus - 15 Good - 10 Satisfactory plus - 8 Satisfactory - 5 Unsatisfactory - 0
4.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	5	0 - none 3 - related discipline 5 - discipline in which recruitment takes place
5.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1, or 3, or 4	4	Very good - 4 Good plus - 3 Good – 1 <Good – 0
6.	Scientific activity in the field for which recruitment is	0÷3	3	

	being conducted: - scientific publications, - conference participation - etc.			0,5 for activity
7.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	3	0,5 for activity
8.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	5	B2 and higher – 5 B1 – 3 other – 1 none - 0
Maximum number of points that can be obtained : 80				

Appendix No. 2a
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2021/2022 academic year (Resolution No.321/2020/2021 of the Senate of the Częstochowa University of Technology of february 24, 2021)

Stage I

Table 2a. Assessment of Candidate Performance in the Recruitment Process

Candidates' Name and Surname: : ……...

Discipline: ……

Criterion for assessing a specific research issue	Number of points possible to obtain	Number of points obtained by a candidate
The ability to define a research problem and indicate the intended goal	10	
Compatibility of the proposed issue with the research issues within the scientific discipline in which recruitment is conducted	10	
The originality of the proposed problem	10	
Opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic or, in his absence, the opinion of the recruitment committee for the relevant discipline	10	
Total number of points obtained by a candidate		

Appendix No. 2b
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2021/2022 academic year (Resolution No.321/2020/2021 of the Senate of the Częstochowa University of Technology of february 24, 2021)

Stage II

Table 2a. Assessment of Candidate Performance in the Recruitment Process

Candidates' Name and Surname: : ……...

Discipline: ……

No.	Kryterium	Number of points possible to obtain	Number of points obtained by the candidate
1.	An interview on issues related to the scientific discipline in which the recruitment takes place	0÷20	
2.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	
3.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies or first degree for persons referred to in Article 186 paragraph 2 of the Act	0 or 1, or 3, or 4	
4.	Scientific activity in the field for which recruitment is being conducted: - scientific publications, - conference participation - etc.	0÷3	
5.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	
6.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	
Total number of points obtained by the candidate			

Appendix No. 3
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2021/2022 academic year (Resolution No.321/2020/2021 of the Senate of the Częstochowa University of Technology of february 24, 2021)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration
I declare that I do not hold* a doctoral degree.

..……..……
date and signature of the candidate

* delete what is unnecessary

Appendix No. 4
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2021/2022 academic year (Resolution No.321/2020/2021 of the Senate of the Częstochowa University of Technology of february 24, 2021)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am/am not* employed as an academic teacher or researcher under the conditions specified in art. 209 section 10 of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2020, item 85, as amended).

..……
date and signature of the candidate

* delete what is unnecessary

Appendix No. 5
to the Rules for Admission to the Doctoral School of the Częstochowa University of Technology in the 2021/2022 academic year (Resolution No.321/2020/2021 of the Senate of the Częstochowa University of Technology of february 24, 2021)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am starting my education at one doctoral school and that it is the Doctoral School of the Czestochowa University of Technology.

..……
date and signature of the candidate

* delete what is unnecessary

RESOLUTION No. 98/2021/2022

of the Senate of Czestochowa University of Technology

of 8 February 2022

on: conditions and procedure for recruitment to the Doctoral School of Czestochowa University of Technology in the academic year 2022/2023

1. The Senate of Czestochowa University of Technology, based on art. 200 section 2 of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2021, item 478, as amended), in an open vote, determined the conditions and procedure for recruitment to the Doctoral School of Czestochowa University of Technology in the academic year 2022/2023, in accordance with the annex to this resolution.

2. The resolution enters into force on the date of its adoption.

Chairman of the Senate
of the Czestochowa University of Technology
Rector
Prof. dr hab. inż. Norbert Sczygiol

Appendix to RESOLUTION No. 98/2021/2022

Recruitment rules for the Doctoral School of the Częstochowa University of Technology in the academic year 2022/2023

§ 1

1. The recruitment conditions specify the rules for admission to the Doctoral School of the Częstochowa University of Technology, hereinafter referred to as the doctoral school, in the following fields of science/scientific disciplines:

Field of science	**Scientific discipline**
Engineering and technical sciences	– automation, electronics, electrical engineering and space technologies – technical computer science and telecommunications – materials engineering – mechanical engineering – environmental engineering, mining and energy
Social science	– management and quality sciences

2. Joining the recruitment process means that the candidate accepts the Regulations of the Doctoral School of the Częstochowa University of Technology and the Principles of Recruitment to the Doctoral School of the Częstochowa University of Technology.

3. A person who holds a professional title of Master of Science, Master of Science in Engineering or equivalent, or a person referred to in art. 186 section 2 of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2021, item 478, as amended), hereinafter referred to as the "Act" may be admitted to the doctoral school.

4. Recruitment to the doctoral school takes place through a competition:

1) regular, enabling the start of education in the doctoral school on 1 October;

2) special, enabling the commencement of education at the doctoral school twice a year outside the established dates, related to the results of competitions for places in which the doctoral scholarship is financed from sources other than those originating from the funds indicated in art. 409 of the Act.

5. The limit of places for the first year of education at the doctoral school for regular recruitment is set by the rector.

6. Doctoral students admitted under special recruitment do not encumber the admission limits set by the rector.

7. At the request of the head of the doctoral school, the rector may consent to the announcement of supplementary recruitment.

8. Candidates with disabilities or chronic diseases are provided with assistance and facilities in the recruitment process according to their individual needs. The Rector's Representative for People with Disabilities determines the form of assistance in the recruitment process individually for each candidate with a disability or chronic diseases based on an analysis of the documentation provided by the candidate.

9. Foreigners may undertake education at the doctoral school based on the currently applicable regulations.

10. A foreigner who speaks Polish to a degree that allows them to undertake education in that language may apply for admission to the doctoral school.

11. A foreigner is required to submit a certificate confirming knowledge of the Polish language at least at B1 level, issued by the State Commission for the Certification of Proficiency in Polish as a Foreign Language, or a certificate confirming completion of a preparatory course for taking up education in Polish at a unit designated by the relevant ministry, or a certificate issued by the Częstochowa University of Technology confirming that their level of knowledge of the Polish language allows them to take up education in this language, or that they have completed higher education studies conducted in Polish.

12. A candidate for a doctoral school cannot start the recruitment process in a scientific discipline in which they have an open doctoral procedure or have initiated promotion proceedings.

13. If a person applying for admission to a doctoral school has been subject to a disciplinary penalty or has been convicted by a final judgment for an intentional offence or an intentional fiscal offence, or such proceedings are pending against them, that person is required to inform the head of the doctoral school in writing.

§ 2

1. Registration of candidates for the doctoral school is conducted in the IRK system from August 8, 2022, from 8:00 a.m. to August 26, 2022, until 11:59 p.m.

2. Częstochowa University of Technology is not responsible for the inability to register or make changes caused by network failures beyond the University's control or periodic overloads of the University's servers.

3. Online registration is considered to be completed correctly if all necessary data is entered by the candidate.

4. The candidate is obliged to keep the password to access their personal registration account secret. The University is not responsible for the consequences of making this password available to third parties, in particular for changes to the records authorized by this password.

5. After registering in the IRK system and paying the recruitment fee of PLN 150 to the account number indicated in the system, the candidate shall submit by 26 August 2022:

1) an application for admission to the doctoral school, generated from the IRK system;

2) original confirmation of payment of the application fee;

3) the Rector's consent to undertake studies at the doctoral school (applies to individuals who are employees of the University; Appendix 7 to these regulations);

4) a self-report signed by the candidate (maximum 4 A4 pages, Arial 12 font, 1.5 line spacing) containing, among other things:

a) a description of the specific research topic, taking into account the criteria contained in Appendix 1 to these regulations;

b) a description of the doctoral dissertation topic in the case of a candidate participating in doctoral studies at Częstochowa University of Technology, other than the topic of the research topic proposed for implementation as part of the doctoral school education;

c) a description of research activity, including, among other things, scientific publications, participation in scientific conferences, and research projects; d) information on completed courses and certificates;

5) Graduates of foreign universities must submit their original higher education diploma and, in the case of a diploma that, in accordance with applicable legal regulations, is subject to recognition through nostrification, a certificate issued by the entity performing the nostrification, confirming the equivalence of the diploma obtained abroad with a higher education diploma obtained in Poland;

6) an opinion from the head of the discipline regarding the feasibility of implementing the proposed research topic;

7) an identity document (e.g., ID card, passport, Polish Card) – original available for inspection;

8) diplomas of completion of first-cycle and second-cycle studies or long-cycle master's studies;

9) a copy of a document confirming a change of name (applies to individuals with a diploma issued in a name different from the one on the application for admission to doctoral school) – original available for inspection;

10) three photographs, against a light background, without headgear (45 mm x 65 mm);

11) certificates confirming knowledge of foreign languages;

12) a maximum of 6 certificates confirming knowledge of specialized computer programs, completed postgraduate studies, and courses related to the discipline in which recruitment to the doctoral school is conducted – if the candidate has them;

13) declaration of not holding a doctoral degree (Appendix 3 to these rules);

14) declaration of employment as an academic teacher or researcher under the terms specified in Article 209, Section 10 of the Act (Appendix 4 to these rules);

15) declaration of commencement of education at one doctoral school in accordance with Article 200, Section 7 of the Act on Higher Education and Science (Appendix 5 to these rules);

16) application for support in the recruitment process (applies to individuals with a disability or chronic illness (Appendix 6 to these rules).

§ 3

1. At the request of the head of the doctoral school, the rector appoints recruitment committees, separately for each of the disciplines within which recruitment to the doctoral school is conducted.

2. Each recruitment committee is composed of:

1) the head of the doctoral school, acting as the chairperson;

2) the head of the scientific discipline in which the recruitment procedure to the doctoral school is conducted or a person indicated by him;

3) two persons holding the title of professor or at least the academic degree of doctor habilitated, indicated by the head of the scientific discipline within which recruitment is conducted;

4) a representative of the doctoral student self-government;

5) a secretary, indicated by the head of the doctoral school.

3. Recruitment committees are appointed for an academic year.

4. The work of the recruitment committees is directed by the head of the doctoral school.

5. The tasks of the recruitment committee include:

1) conducting the recruitment procedure;

2) preparation of ranking lists of candidates for the doctoral school within the scientific disciplines in which the recruitment procedure is conducted.

6. Only members of the committee may be present during the meeting of the recruitment committee.

7. At the candidate's written request, the head of the doctoral school may invite other persons to the interview. The presence of persons other than members of the committee and candidates is recorded in the minutes referred to in § 3 sec. 13.

8. Members of the recruitment committee are obliged to maintain impartiality and objectivity in assessing candidates for the doctoral school.

9. A member of the recruitment committee shall inform the other members of the recruitment committee of any circumstances that may affect his impartiality and objectivity in assessing a candidate for the doctoral school.

10. The recruitment committee may decide to exclude a member of the committee from the assessment procedure of a given candidate if his participation in the procedure could raise justified doubts.

11. Members of the recruitment committee, with the exception of the secretary, have equal voting rights.

12. The decisions of the recruitment committee are made by a simple majority of votes, in the presence of at least half of the members of the recruitment committee. In the event of an equal number of votes for and against, the vote of the chairman is decisive.

13. The meetings of the recruitment committees are recorded in minutes, and the minutes are signed by the chairman and the members of the committee who participated in the meeting.

§ 4

1. The recruitment process is conducted by recruitment committees separately for each scientific discipline in which recruitment to the doctoral school takes place.

2. The purpose of the recruitment process is to select the best candidates for the doctoral school based on the description of the proposed research topic, the interview and the assessment of the candidates' previous scientific experience and achievements, in accordance with the criteria presented in Annexes 1.

3. The condition for qualifying a candidate for the recruitment process is the completeness of the documents submitted to the head of the scientific discipline and to the administrative office of the doctoral school, referred to in § 2 sec. 5 and in § 1 sec. 11.

4. The recruitment process is conducted based on an assessment of the description of the specified research topic, the candidate's experience and achievements, and the opinion of the head of the discipline regarding its feasibility.

5. During the interview, the candidate is required to present documents confirming their previous research activity, in particular: scientific publications, participation in conferences, and research projects.

6. The interview will be conducted in Polish.

7. Only the candidate's research activity from the period from October 1, 2017 inclusive may be taken into account in the recruitment process.

8. The number of points obtained by the candidate in the recruitment process is the arithmetic mean of the individual ratings given by the members of the recruitment committee, in accordance with Annex 2 to these rules.

9. Individual ratings given by individual members of the recruitment committee are anonymous.

10. After completing the recruitment process, the admissions committees prepare minutes of the admissions committee meeting for the Częstochowa University of Technology Doctoral School and ranking lists for each discipline and submit them in writing to the head of the doctoral school.

11. The ranking list for a given discipline includes the candidate's first and last name and the number of points awarded during the recruitment process.

12. The maximum number of points a candidate can obtain in the recruitment process is 80.

13. The condition for a candidate to be included on the list of doctoral students by the head of the doctoral school is that they obtain at least 60 points during the recruitment process and do not exceed the quota of places established by the Rector.

14. A candidate who obtains the minimum or higher number of points during the recruitment process but exceeds the quota of places will be placed on a reserve list and may be admitted provided that places become available by October 15th.

15. A candidate on the reserve list will be added to the doctoral student list if there are any available spots, in the order of points obtained.

16. For candidates applying for a place at a doctoral school in the same discipline and with the same number of points obtained in the admissions process, the grade on the diploma of the second-cycle or long-cycle master's degree program is taken into account. In the aforementioned cases, the higher grade determines admission to the doctoral school.

17. Ranking lists within the disciplines in which the admissions process is conducted are signed by all members of the admissions committee in the given discipline participating in the committee meeting.

§ 5

1. The dates of conducting the recruitment procedure in individual scientific disciplines are presented in the table below:

Scientific discipline	Deadline for conducting the recruitment procedure	Place of conducting the recruitment procedure
automation, electronics, electrical engineering and space technologies	1.09.2022 10:00 a.m.	The location of the recruitment process will be announced on the doctoral school website and at the doctoral school administrative office.
management and quality sciences	2.09.2022 10:00 a.m.	
mechanical engineering	5.09.2022 10:00 a.m.	
environmental engineering, mining and energy	6.09.2022 10:00 a.m.	
materials engineering	7.09.2022 10:00 a.m.	
technical computer science and telecommunications	8.09.2022 10:00 a.m.	

2. The results of the recruitment process will be announced on 9.09.2024 and made available through the IRK system and in the administrative office of the doctoral school.

§ 6

1. The results of the competition are public.

2. The basis for the preparation by the head of the doctoral school of the list of doctoral students admitted to the doctoral school are the ranking lists provided by the recruitment committees

separate for each of the scientific disciplines within which recruitment to the doctoral school takes place.

3. The candidate's position on the ranking list within a given scientific discipline and the limit of places set by the rector for each of the scientific disciplines constitute the basis for admission to the doctoral school.

4. A doctoral student is admitted to the doctoral school by entering him or her on the list of doctoral students by the head of the doctoral school.

5. Refusal of admission to the doctoral school is made by way of an administrative decision.

6. The decision to refuse admission of a candidate to the doctoral school is signed by the head of the doctoral school.

7. Within 14 days of the date of receipt of the decision refusing admission to the doctoral school, the candidate is entitled to file a motion to have the case reconsidered.

8. The basis for filing a motion to have the case reconsidered may only be an indication of a violation of the conditions and procedure for recruitment to the doctoral school. The motion should indicate the exact provisions specifying the conditions or procedure for recruitment to the doctoral school, which in the opinion of the party were violated.

§ 7

1. All personal data provided by candidates are processed and stored for registration purposes in accordance with applicable regulations and are protected.

2. The University is not responsible for the consequences of a candidate not reading the messages placed on their personal registration account.

Appendix No. 1

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2022/2023 (RESOLUTION No. 98/2021/2022 of the Senate of Częstochowa University of Technology)

Table 1. Criteria for assessing the research topic proposed by the candidate.

No..	Criteria	Number of points	Maximum number of points	Notes
1.	Specified research problem	0÷30	30	The following will be assessed: • the ability to define the research question and indicate its intended purpose, • the consistency of the proposed question with the research issues within the scientific discipline in which recruitment is being conducted, • the originality of the proposed question.
2.	Opinion of the head of the discipline regarding the feasibility of implementing the proposed research topic or, in his absence, the opinion of the recruitment committee for the relevant discipline	0 or 10	10	positive – 10 negative – 0
3.	An interview on issues related to the scientific discipline in which the recruitment takes place	0÷20	20	When determining the outcome of the interview, the following are taken into account: • understanding of the issues addressed, substantive knowledge, linguistic accuracy, and the ability to use scientific language appropriate to the scientific discipline in which the training will take place: Very good - 20 Good plus - 15 Good - 10 Satisfactory plus - 8 Satisfactory - 5 Unsatisfactory - 0
4.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	5	0 - none 3 - related discipline 5 - discipline in which recruitment takes place
5.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1, or 3, or 4	4	Very good - 4 Good plus - 3 Good – 1 <Good – 0
6.	Scientific activity in the field for which recruitment is	0÷3	3	0,5 for activity

	being conducted: - scientific publications, - conference participation - etc.			
7.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	3	0,5 for activity
8.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	5	B2 and higher – 5 B1 – 3 other – 1 none - 0
Maximum number of points that can be obtained : 80				

Appendix No. 2

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2022/2023 (RESOLUTION No. 98/2021/2022 of the Senate of Częstochowa University of Technology)

Table 1. Criteria for assessing the candidate's achievements obtained during the qualification interview.

No..	Criteria	Number of points	Maximum number of points
1.	The ability to define the research question and indicate the intended goal.	0÷10	
2.	Compatibility of the proposed question with the research issues within the scientific discipline in which recruitment is being conducted.	0÷10	
3.	Originality of the proposed question.	0÷10	
4.	Opinion of the head of the discipline regarding the feasibility of the proposed research question.	0 lub 10	
5.	Interview regarding issues related to the scientific discipline in which recruitment is being conducted.	0÷20	
6.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 lub, 3, lub 5	
7.	Grades on the diploma of completion of first-cycle and second-cycle studies or long-cycle master's studies	0 lub 1, lub 3, lub 4	
8.	Scientific activity in the field for which recruitment is taking place: - scientific publications, - participation in conferences, - etc.	0÷3	

9.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	
10.	Knowledge of a modern foreign language confirmed by a certificate	0 lub 1, lub 3, lub 5	
Total number of points :			

Appendix No. 3

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2022/2023 (RESOLUTION No. 98/2021/2022 of the Senate of Częstochowa University of Technology)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I hold a doctoral degree in the scientific discipline of ……... ……/I do not hold a doctoral degree.

..……

date and signature of the candidate

Appendix No. 4

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2022/2023 (RESOLUTION No. 98/2021/2022 of the Senate of Częstochowa University of Technology)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am/am not1 employed as an academic teacher or researcher under the conditions specified in art. 209 section 10 of the Act of 20 July 2018 - Law on Higher Education and Science (consolidated text: Journal of Laws of 2021, item 478, as amended).

..……..……

date and signature of the candidate

Appendix No. 5

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2022/2023 (RESOLUTION No. 98/2021/2022 of the Senate of Częstochowa University of Technology)

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am starting my education at one doctoral school and that it is the Doctoral School of the Czestochowa University of Technology.

..……
date and signature of the candidate

Appendix No. 6

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2022/2023 (RESOLUTION No. 98/2021/2022 of the Senate of Częstochowa University of Technology)

Candidate's name and surname :……

Contact details: …….
phone, email, other

PESEL | | | | | | | | | | |

To the Rector's Representative
for Persons with Disabilities
by
the Head of the Doctoral School
of the Częstochowa University of Technology

I hereby apply for support in the recruitment process to the Doctoral School of the Częstochowa University of Technology resulting from my disability certificate/documented chronic illness*.

..……
date and signature of the candidate

Appendix No. 7

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2022/2023 (RESOLUTION No. 98/2021/2022 of the Senate of Częstochowa University of Technology)

.....

Name and surname

.....

Organizational uni

t .....

Position

His Magnificence Rector

of the Częstochowa University of Technology

Prof, Norbert Sczygiol

I hereby request your consent to participate in the recruitment process for the Doctoral School of the Częstochowa University of Technology.

……..……..……

date and candidate's signature

I support/disagree with the request

……..……..……

Date and signature of immediate supervisor

Rector's decision I consent/disagree with the request[1] to participate in the recruitment process for the Doctoral School of the Częstochowa University of Technology. Admission to the Doctoral School is associated with a reduction in full-time employment to ……., resulting from the need to provide education and conduct research.

..……...……

Date and signature of Rector

Appendix to RESOLUTION No. 169/2022/2023

Recruitment rules for the Doctoral School of the Częstochowa University of Technology in the academic year 2023/2024

§ 1

1. The recruitment conditions specify the rules for admission to the Doctoral School of the Częstochowa University of Technology, hereinafter referred to as the doctoral school, in the following fields of science/scientific disciplines:

Field of science	**Scientific discipline**
Engineering and technical sciences	– automation, electronics, electrical engineering and space technologies – technical computer science and telecommunications – materials engineering – mechanical engineering – environmental engineering, mining and energy
Social science	– management and quality sciences

2. Joining the recruitment process means that the candidate accepts the Regulations of the Doctoral School of the Częstochowa University of Technology and the Principles of Recruitment to the Doctoral School of the Częstochowa University of Technology.

3. A person who holds a professional title of Master of Science, Master of Science in Engineering or equivalent, or a person referred to in art. 186 section 2 of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2022, item 574, as amended), hereinafter referred to as the "Act" may be admitted to the doctoral school.

4. Recruitment to the doctoral school takes place through a competition:

1) regular, enabling the start of education in the doctoral school on 1 October;

2) special, enabling the commencement of education at the doctoral school twice a year outside the established dates, related to the results of competitions for places in which the doctoral scholarship is financed from sources other than those originating from the funds indicated in art. 409 of the Act.

5. The limit of places for the first year of education at the doctoral school for regular recruitment is set by the rector.

6. Doctoral students admitted under special recruitment do not encumber the admission limits set by the rector.

7. At the request of the head of the doctoral school, the rector may consent to the announcement of supplementary recruitment.

8. Candidates with disabilities or chronic diseases are provided with assistance and facilities in the recruitment process according to their individual needs. The Rector's Representative for People with Disabilities determines the form of assistance in the recruitment process individually for each candidate with a disability or chronic diseases based on an analysis of the documentation provided by the candidate.

9. Foreigners may undertake education at the doctoral school based on the currently applicable regulations.

10. A foreigner who speaks Polish to a degree that allows them to undertake education in that language may apply for admission to the doctoral school.

11. A foreigner is required to submit a certificate confirming knowledge of the Polish language at least at B1 level, issued by the State Commission for the Certification of Proficiency in Polish as a Foreign Language, or a certificate confirming completion of a preparatory course for taking up education in Polish at a unit designated by the relevant ministry, or a certificate issued by the Częstochowa University of Technology confirming that their level of knowledge of the Polish language allows them to take up education in this language, or that they have completed higher education studies conducted in Polish.

12. A candidate for a doctoral school cannot start the recruitment process in a scientific discipline in which they have an open doctoral procedure or have initiated promotion proceedings.

13. If a person applying for admission to a doctoral school has been subject to a disciplinary penalty or has been convicted by a final judgment for an intentional offence or an intentional fiscal offence, or such proceedings are pending against them, that person is required to inform the head of the doctoral school in writing.

§ 2

1. Registration of candidates for the doctoral school is conducted in the IRK system from August 8, 2023, from 8:00 a.m. to August 25, 2023, until 11:59 p.m.

2. Częstochowa University of Technology is not responsible for the inability to register or make changes caused by network failures beyond the University's control or periodic overloads of the University's servers.

3. Online registration is considered to be completed correctly if all necessary data is entered by the candidate.

4. The candidate is obliged to keep the password to access their personal registration account secret. The University is not responsible for the consequences of making this password available to third parties, in particular for changes to the records authorized by this password.

5. After registering in the IRK system and paying the recruitment fee of PLN 150 to the account number indicated in the system, the candidate shall submit by 29 August 2023:

1) to the head of the scientific discipline – a signed self-presentation (maximum 4 A4 pages, Arial 12 font, 1.15 line spacing) taking into account the assessment criteria contained in Annex No. 1;

2) to the administrative office of the doctoral school the following documents:

a) application for admission to the doctoral school, generated from the IRK system,

b) original confirmation of payment of the recruitment fee,

c) consent of the rector to undertake education at the doctoral school (applies to a person who is an employee of the University - Appendix no. 8),

d) graduates of foreign universities submit the original of the diploma of completion of higher education, and in the case of a diploma which, in accordance with applicable legal regulations, is subject to recognition in the nostrification procedure, also a certificate issued by the unit performing the nostrification of the diploma confirming the equivalence of the diploma obtained abroad with the diploma of completion of higher education in the country,

e) identity document (e.g. identity card, passport, Polish Card) - original for inspection,

f) document confirming a change of surname (applies to persons with a diploma issued in a name other than the one on the application for admission to the doctoral school) - original for inspection,

g) diplomas of completion of first and second cycle studies or uniform master's studies, h) three photographs, on a light background without headgear (45 mm x 65 mm), i) certificates confirming knowledge of foreign languages,

j) information on completed courses and certificates obtained (maximum 6 certificates confirming, among others: knowledge of specialist computer programs, completed postgraduate studies and courses related to the scientific discipline within which recruitment to the doctoral school is conducted - if the candidate has them),

k) information on scientific activity (scientific publications, participation in scientific conferences and research projects),

l) declaration of not having a doctoral degree (Appendix No. 5),

m) declaration of starting education in one doctoral school, in accordance with Art. 200 sec. 7 of the Act (Appendix No. 6),

n) application for support in the recruitment process (applies to persons with disabilities or chronic diseases - Appendix No. 7).

o) Application for support in the recruitment process (applies to persons with a disability or chronic illness – Appendix 8).

6. In the case of a candidate who participated in doctoral studies at the Częstochowa University of Technology, the description of the research topic proposed for implementation as part of education at the doctoral school must be different from the topic implemented during the doctoral studies.

§ 3

1. At the request of the head of the doctoral school, the rector appoints recruitment committees, separately for each of the scientific disciplines within which recruitment to the doctoral school is conducted.

2. Each recruitment committee is composed of:

1) the head of the doctoral school, acting as the chairman;

2) the head of the scientific discipline in which the recruitment procedure to the doctoral school is conducted or a person indicated by him;

3) two persons holding the title of professor or at least the academic degree of doctor habilitated, indicated by the head of the scientific discipline within which recruitment is conducted;

4) a representative of the doctoral student self-government;

5) a secretary, indicated by the head of the doctoral school.

3. Recruitment committees are appointed for an academic year.

4. The work of the recruitment committees is directed by the head of the doctoral school.

5. The tasks of the recruitment committee include:

1) conducting the recruitment procedure;

2) preparation of ranking lists of candidates for the doctoral school within the scientific disciplines in which the recruitment procedure is conducted.

6. Only members of the committee may be present during the meeting of the recruitment committee.

7. At the candidate's written request, the head of the doctoral school may invite other persons to the interview. The presence of persons other than members of the committee and candidates is recorded in the minutes referred to in § 3 sec. 13.

8. Members of the recruitment committee are obliged to maintain impartiality and objectivity in assessing candidates for the doctoral school.

9. A member of the recruitment committee shall inform the other members of the recruitment committee of any circumstances that may affect his impartiality and objectivity in assessing a candidate for the doctoral school.

10. The recruitment committee may decide to exclude a member of the committee from the assessment procedure of a given candidate if his participation in the procedure could raise justified doubts.

11. Members of the recruitment committee, with the exception of the secretary, have equal voting rights.

12. The decisions of the recruitment committee are made by a simple majority of votes, in the presence of at least half of the members of the recruitment committee. In the event of an equal number of votes for and against, the vote of the chairman is decisive.

13. The meetings of the recruitment committees are recorded in minutes, and the minutes are signed by the chairman and the members of the committee who participated in the meeting.

§ 4

1. The recruitment process is conducted by recruitment committees separately for each scientific discipline in which recruitment to the doctoral school takes place.

2. The purpose of the recruitment process is to select the best candidates for the doctoral school based on the description of the proposed research topic, the interview and the assessment of the candidates' previous scientific experience and achievements, in accordance with the criteria presented in Annexes 1 and 2.

3. The condition for qualifying a candidate for the recruitment process is the completeness of the documents submitted to the head of the scientific discipline and to the administrative office of the doctoral school, referred to in § 2 sec. 5 and 6 and in § 1 sec. 11.

4. The recruitment process is conducted on the basis of an assessment of the documentation submitted by the candidate.

5. During the interview, the following are assessed:

1) the ability to present the research topic;

2) the ability to formulate the scientific goal of the proposed research topic;

3) indication of the scope of research and experiments necessary to achieve the intended goal;

4) ability to use the scientific language appropriate to a given scientific discipline;

5) general knowledge of the scientific discipline in which recruitment is conducted;

6) scientific activity of the candidate, in particular: scientific publications, participation in conferences and research projects (confirmed by appropriate documents).

6. The interview is conducted in Polish.

7. In the recruitment procedure, only the candidate's scientific activity from 1 October 2018 inclusive is taken into account.

8. The number of points obtained by the candidate in the recruitment procedure is the arithmetic mean of the individual assessments of the members of the recruitment committee (Appendix No. 4), increased by the number of points obtained from the assessment of the research issue (Appendix No. 3).

9. Individual assessments given by individual members of the recruitment committee are anonymous.

10. After completing the recruitment process, the recruitment committees prepare minutes of the recruitment committee meeting for the Częstochowa University of Technology Doctoral School and ranking lists for each scientific discipline and submit them in writing to the head of the doctoral school.

11. The ranking list for a specific scientific discipline includes the candidate's first and last name and the number of points awarded in the recruitment process.

12. The maximum number of points that a candidate to the doctoral school can obtain in the recruitment process is 100.

13. The condition for the candidate to be entered on the list of doctoral students by the head of the doctoral school is that they obtain at least 75 points in the recruitment process and do not exceed the limit of places set by the rector.

14. A candidate who has obtained the minimum or higher number of points during the recruitment procedure, while exceeding the limit of places, is entered on the reserve list and may be admitted provided that vacancies appear by October 15.

15. A candidate from the reserve list is entered on the list of doctoral students in the event of vacancies, maintaining the order resulting from the number of points obtained.

16. For candidates applying for a place in a doctoral school in the same scientific discipline, with an identical number of points obtained in the recruitment procedure, the grade on the diploma of completion of second-cycle studies or uniform master's studies is taken into account. In the above-mentioned case, the higher grade obtained decides on admission to the doctoral school.

17. Ranking lists within the scientific disciplines in which the recruitment procedure is conducted are signed by all members of the recruitment committee in a given scientific discipline participating in the committee meeting.

§ 5

1. The dates of conducting the recruitment procedure in individual scientific disciplines are presented in the table below:

Scientific discipline	Deadline for conducting the recruitment procedure	Place of conducting the recruitment procedure
automation, electronics, electrical engineering and space technologies	04.09.2023 9:00 a.m.	conference room of the Doctoral School, J. H. Dąbrowskiego street 69 42-201 Częstochowa room no. 2
technical computer science and telecommunications	04.09.2023 12:00 a.m.	
management and quality sciences	5.09.2023 10:00 a.m.	
mechanical engineering	6.09.2023 10:00 a.m.	
environmental engineering, mining and energy	7.09.2023 10:00 a.m.	
materials engineering	8.09.2023 10:00 a.m.	

2. The results of the recruitment process will be announced on 13.09.2023 and made available through the IRK system and in the administrative office of the doctoral school.

§ 6

1. The results of the competition are public.

2. The basis for the preparation by the head of the doctoral school of the list of doctoral students admitted to the doctoral school are the ranking lists provided by the recruitment committees separate for each of the scientific disciplines within which recruitment to the doctoral school takes place.

3. The candidate's position on the ranking list within a given scientific discipline and the limit of places set by the rector for each of the scientific disciplines constitute the basis for admission to the doctoral school.

4. A doctoral student is admitted to the doctoral school by entering him or her on the list of doctoral students by the head of the doctoral school.

5. Refusal of admission to the doctoral school is made by way of an administrative decision.

6. The decision to refuse admission of a candidate to the doctoral school is signed by the head of the doctoral school.

7. Within 14 days of the date of receipt of the decision refusing admission to the doctoral school, the candidate is entitled to file a motion to have the case reconsidered.

8. The basis for filing a motion to have the case reconsidered may only be an indication of a violation of the conditions and procedure for recruitment to the doctoral school. The motion should indicate the exact provisions specifying the conditions or procedure for recruitment to the doctoral school, which in the opinion of the party were violated.

§ 7

1. All personal data provided by candidates are processed and stored for registration purposes in accordance with applicable regulations and are protected.

2. The University is not responsible for the consequences of a candidate not reading the messages placed on their personal registration account.

Appendix No. 1
to the Resolution No. 169/2022/2023 of the Senate of the Częstochowa University of Technology

Table 1. Criteria for assessing the research problem proposed by the candidate.

No..	Criteria	Number of points	Maximum number of points	Notes
1.	the ability to define the research question and indicate its intended purpose,	0÷10	10	
2.	the consistency of the proposed question with the research issues within the scientific discipline in which recruitment is being conducted,	0 or 10	positive – 10 no opinion – 0	
3.	the originality of the proposed question.	0÷10	10	
Maximum number of points that can be obtained : 30				

Appendix No. 2
to the Resolution No. 169/2022/2023 of the Senate of the Częstochowa University of Technology of

Table 1. Criteria for assessing the candidate's achievements obtained during the interview

No..	Criteria	Number of points	Maximum number of points	Notes
1.	Specified research problem	0÷10	10	
2.	The ability to formulate the scientific goal of the proposed research problem	0÷10	10	
3.	Planning the scope of research and experiments necessary to achieve the intended goal	0÷10	10	
4.	Ability to use scientific language appropriate to the scientific discipline in which the training is to take place .	0÷10	10	
5.	General knowledge of the scientific discipline in which the recruitment is conducted	0÷10	10	
6.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	5	0 - none 3 - related discipline 5 - discipline in which recruitment takes place
7.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1, or 3, or 4	4	Very good - 4 Good plus - 3 Good – 1 <Good – 0
8.	Scientific activity in the field for which recruitment is being conducted: - scientific publications, - conference participation - etc.	0÷3	3	0,5 for activity
9.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	3	0,5 for activity

10.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	5	B2 and higher – 5 B1 – 3 other – 1 none - 0
Maximum number of points that can be obtained : 70				

Appendix No. 3
to the Resolution No. 169/2022/2023 of the Senate of the Częstochowa University of Technology of

Candidate's name and surname: ……..……

Scientific discipline: ..…….. …….

Table 1. Assessment of the research topic proposed by the candidate.

No.	Criteria	Number of points possible to obtain	Number of points obtained by the candidate
1.	Assessment of the head of the scientific discipline regarding the compatibility of the proposed topic with the research issues within the scientific discipline in which recruitment is being conducted	0÷10	
2.	Opinion of the head of the scienttic discipline regarding the feasibility of implementing the proposed research topic based on human resources and research equipment	0 or 10	
3.	Assessment of the head of the scientific discipline representing the appropriate scientific discipline regarding the originality of the proposed research topic	0÷10	
Total number of points that can be obtained: 30			

Appendix No. 4
to the Resolution No. 169/2022/2023 of the Senate of the Częstochowa University of Technology of

Candidate's name and surname: ……..……

Scientific discipline: ..…….. …….

Table 1. The score obtained by the candidate during the interview

No.	**Criteria**	**Number of points possible to obtain**	Number of points obtained by the candidate
1.	The recruitment committee's assessment of the candidate's ability to present the research topic	0÷10	
2.	The recruitment committee's assessment of the candidate's ability to formulate the scientific goal of the proposed research topic	0÷10	
3.	The recruitment committee's assessment of the candidate's planning of the scope of	0÷10	

	research and experiments necessary to achieve the intended goal		
4.	The recruitment committee's assessment of the candidate's ability to use scientific language appropriate to the scientific discipline in which the training is to take place	0÷10	
5.	The recruitment committee's assessment of the candidate's general knowledge of the scientific discipline within which the recruitment is being conducted	0÷10	
6.	Completed studies in the scientific discipline for	0 or 3 or 5	

	which the recruitment is being conducted or a related discipline		
7.	Grade on the diploma of first-cycle and second-cycle studies or long-cycle master's studies	0 or 1 or 3 or 4	
8.	Scientific activity in the field of science for which recruitment is taking place: • scientific publications, • participation in conferences, etc.	0÷3	
9.	Completed courses and certificates obtained (excluding language courses and certificates) in the field of science for	0÷3	

	which recruitment is taking place		
10.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1 or 3 or 5	
Total number of points that can be obtained:			

7.	Ocena na dyplomie ukończenia studiów I i II stopnia lub jednolitych studiów magisterskich	0 or 1 or 3 or 4	
8.	Aktywność naukowa w zakresie dziedziny nauki, dla której odbywa się rekrutacja: – publikacje naukowe, – udział w konferencjach itp.	0÷3	
9.	Ukończone kursy i zdobyte certyfikaty (z wyłączeniem kursów i certyfikatów językowych) w zakresie dziedziny nauki, dla której odbywa się rekrutacja	0÷3	
10.	Znajomość obcego języka nowożytnego potwierdzona certyfikatem	0 or 1 or 3 or 5	
Total number of points that can be obtained:			

Appendix No. 5
to the Resolution No. 169/2022/2023 of the Senate of the Częstochowa University of Technology

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I hold a doctoral degree in the scientific discipline of ……... ……/I do not hold a doctoral degree.

..……
date and signature of the candidate

Appendix No. 6
to the Resolution No. 196/2022/2023 of the Senate of the Częstochowa University of Technology

Candidate's name and surname :……

PESEL | | | | | | | | | | | |

Declaration

I declare that I am/am not1 employed as an academic teacher or researcher under the conditions specified in art. 209 section 10 of the Act of 20 July 2018 - Law on Higher Education and Science (consolidated text: Journal of Laws of 2022, item 574, as amended).

..……..……
date and signature of the candidate

Appendix No. 7
to Resolution No.169/2022/2023 of the Senate of the Częstochowa University of Technology

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am starting my education at one doctoral school and that it is the Doctoral School of the Czestochowa University of Technology.

..……
date and signature of the candidate

* * delete what is unnecessary

Appendix No. 8
to the Resolution No. 169/2022/2023 of the Senate of the Częstochowa University of Technology

Candidate's name and surname: ……...

Contact details: ……...…

(phone, e-mail, other)

PESEL | | | | | | | | | | |

To the Rector's Representative for Persons with Disabilities

by

Head of the Doctoral School of the Częstochowa University of Technology

hereby apply for support in the recruitment process to the Doctoral School of the Częstochowa University of Technology in the form of: ……. ……..., which results from the disability certificate/documented chronic illness1.

..……..…

date and signature of the candidate

..Appendix No. 9

to the Resolution No.169/2022/2023 of the Senate of the Częstochowa University of Technology

.....

Name and surname

.....

Organizational uni

t .....

Position

His Magnificence Rector

of the Częstochowa University of Technology

Prof, Norbert Sczygiol

I hereby request your consent to participate in the recruitment process for the Doctoral School of the Częstochowa University of Technology.

……..……..……

date and candidate's signature

I support/disagree with the request1

……..……..……..…

Date and signature of immediate supervisor

Rector's decision I consent/disagree with the request[1] to participate in the recruitment process for the Doctoral School of the Częstochowa University of Technology. Admission to the Doctoral School is associated with a reduction in full-time employment to ……., resulting from the need to provide education and conduct research.

..……...……

Date and signature of Rector

RESOLUTION No. 253/2023/2024

of the Senate of Czestochowa University of Technology

of 20 March 2024

on: conditions and procedure for recruitment to the Doctoral School of Czestochowa University of Technology in the academic year 2024/2025

1. The Senate of Czestochowa University of Technology, based on art. 200 section 2 of the Act of 20 July 2018 - Law on Higher Education and Science (consolidated text: Journal of Laws of 2023, item 742, as amended), in an open vote, determined the conditions and procedure for recruitment to the Doctoral School of Czestochowa University of Technology in the academic year 2024/2025, in accordance with the annex to this resolution.

2. The resolution enters into force on the date of its adoption.

Chairman of the Senate
of the Czestochowa University of Technology
Rector
Prof. dr hab. inż. Norbert Sczygiol

Appendix to RESOLUTION No. 253/2023/2024

Recruitment rules for the Doctoral School of the Częstochowa University of Technology in the academic year 2024/2025

§ 1

1. The recruitment conditions specify the rules for admission to the Doctoral School of the Częstochowa University of Technology, hereinafter referred to as the doctoral school, in the following fields of science/scientific disciplines:

Field of science	Scientific discipline
Engineering and technical sciences	– automation, electronics, electrical engineering and space technologies – technical computer science and telecommunications – materials engineering – mechanical engineering – environmental engineering, mining and energy
Social science	– management and quality sciences

2. Joining the recruitment process means that the candidate accepts the Regulations of the Doctoral School of the Częstochowa University of Technology and the Principles of Recruitment to the Doctoral School of the Częstochowa University of Technology.

3. A person who holds a professional title of Master of Science, Master of Science in Engineering or equivalent, or a person referred to in art. 186 section 2 of the Act of 20 July 2018 - Law on Higher Education and Science (consolidated text: Journal of Laws of 2023, item 742, as amended), hereinafter referred to as the "Act" may be admitted to the doctoral school.

4. Recruitment to the doctoral school takes place through a competition:

1) regular, enabling the start of education in the doctoral school on 1 October;

2) special, enabling the commencement of education at the doctoral school twice a year outside the established dates, related to the results of competitions for places in which the doctoral scholarship is financed from sources other than those originating from the funds indicated in art. 409 of the Act.

5. The limit of places for the first year of education at the doctoral school for regular recruitment is set by the rector.

6. Doctoral students admitted under special recruitment do not encumber the admission limits set by the rector.

7. At the request of the head of the doctoral school, the rector may consent to the announcement of supplementary recruitment.

8. Candidates with disabilities or chronic diseases are provided with assistance and facilities in the recruitment process according to their individual needs. The Rector's Representative for People with Disabilities determines the form of assistance in the recruitment process individually for each candidate with a disability or chronic diseases based on an analysis of the documentation provided by the candidate.

9. Foreigners may undertake education at the doctoral school based on the currently applicable regulations.

10. A foreigner who speaks Polish to a degree that allows them to undertake education in that language may apply for admission to the doctoral school.

11. A foreigner is required to submit a certificate confirming knowledge of the Polish language at least at B1 level, issued by the State Commission for the Certification of Proficiency in Polish as a Foreign Language, or a certificate confirming completion of a preparatory course for taking up education in Polish at a unit designated by the relevant ministry, or a certificate issued by the Częstochowa University of Technology confirming that their level of knowledge of the Polish language allows them to take up education in this language, or that they have completed higher education studies conducted in Polish.

12. A candidate for a doctoral school cannot start the recruitment process in a scientific discipline in which they have an open doctoral procedure or have initiated promotion proceedings.

13. If a person applying for admission to a doctoral school has been subject to a disciplinary penalty or has been convicted by a final judgment for an intentional offence or an intentional fiscal offence, or such proceedings are pending against them, that person is required to inform the head of the doctoral school in writing.

§ 2

1. Registration of candidates for the doctoral school is conducted in the IRK system from August 5, 2024, from 8:00 a.m. to August 25, 2024, until 11:59 p.m.

2. Częstochowa University of Technology is not responsible for the inability to register or make changes caused by network failures beyond the University's control or periodic overloads of the University's servers.

3. Online registration is considered to be completed correctly if all necessary data is entered by the candidate.

4. The University is not responsible for failure to complete the electronic registration procedure or for the consequences related to the candidate's failure to familiarize themselves with the information placed on their individual IRK account.

5. The candidate is obliged to keep the password to access their personal registration account secret. The University is not responsible for the consequences of making this password available to third parties, in particular for changes to the records authorized by this password.

6. After registering in the IRK system and paying the recruitment fee of PLN 200 to the account number indicated in the system, the candidate shall submit by 27 August 2024:

1) to the head of the scientific discipline – a signed self-presentation (maximum 4 A4 pages, Arial 12 font, 1.15 line spacing) taking into account the assessment criteria contained in Annex No. 1;

2) to the administrative office of the doctoral school the following documents:

a) application for admission to the doctoral school, generated from the IRK system,

b) original confirmation of payment of the recruitment fee,

c) consent of the rector to undertake education at the doctoral school (applies to a person who is an employee of the University - Appendix no. 8),

d) graduates of foreign universities submit the original of the diploma of completion of higher education, and in the case of a diploma which, in accordance with applicable legal regulations, is subject to recognition in the nostrification procedure, also a certificate issued by the unit performing the nostrification of the diploma confirming the equivalence of the diploma obtained abroad with the diploma of completion of higher education in the country,

e) identity document (e.g. identity card, passport, Polish Card) - original for inspection,

f) document confirming a change of surname (applies to persons with a diploma issued in a name other than the one on the application for admission to the doctoral school) - original for inspection,

g) diplomas of completion of first and second cycle studies or uniform master's studies, h) three photographs, on a light background without headgear (45 mm x 65 mm), i) certificates confirming knowledge of foreign languages,

j) information on completed courses and certificates obtained (maximum 6 certificates confirming, among others: knowledge of specialist computer programs, completed postgraduate studies and courses related to the scientific discipline within which recruitment to the doctoral school is conducted - if the candidate has them),

k) information on scientific activity (scientific publications, participation in scientific conferences and research projects),

l) declaration of not having a doctoral degree (Appendix No. 5),

m) declaration of starting education in one doctoral school, in accordance with Art. 200 sec. 7 of the Act (Appendix No. 6),

n) application for support in the recruitment process (applies to persons with disabilities or chronic diseases - Appendix No. 7).

7. In the case of a candidate who participated in doctoral studies at the Częstochowa University of Technology, the description of the research topic proposed for implementation as part of education at the doctoral school must be different from the topic implemented during the doctoral studies.

§ 3

1. The head of the doctoral school, in consultation with the heads of the scientific disciplines, appoints recruitment committees, separately for each of the scientific disciplines within which recruitment to the doctoral school is conducted.

2. Each recruitment committee is composed of:

1) the head of the doctoral school, acting as the chairperson;

2) the head of the scientific discipline in which the recruitment procedure to the doctoral school is conducted or a person indicated by him;

3) two persons holding the title of professor or at least the academic degree of doctor habilitated, indicated by the head of the scientific discipline within which recruitment is conducted;

4) a representative of the doctoral student self-government;

5) a secretary, indicated by the head of the doctoral school.

3. Recruitment committees are appointed for an academic year.

4. The work of the recruitment committees is directed by the head of the doctoral school.

5. The tasks of the recruitment committee include:

1) conducting the recruitment procedure;

2) preparation of ranking lists of candidates for the doctoral school within the scientific disciplines in which the recruitment procedure is conducted.

6. Only members of the committee may be present during the meeting of the recruitment committee.

7. At the candidate's written request, the head of the doctoral school may invite other persons to the interview. The presence of persons other than members of the committee and candidates is recorded in the minutes referred to in § 3 sec. 13.

8. Members of the recruitment committee are obliged to maintain impartiality and objectivity in assessing candidates for the doctoral school.

9. A member of the recruitment committee shall inform the other members of the recruitment committee of any circumstances that may affect his impartiality and objectivity in assessing a candidate for the doctoral school.

10. The recruitment committee may decide to exclude a member of the committee from the assessment procedure of a given candidate if his participation in the procedure could raise justified doubts.

11. Members of the recruitment committee, with the exception of the secretary, have equal voting rights.

12. The decisions of the recruitment committee are made by a simple majority of votes, in the presence of at least half of the members of the recruitment committee. In the event of an equal number of votes for and against, the vote of the chairman is decisive.

13. The meetings of the recruitment committees are recorded in minutes, and the minutes are signed by the chairman and the members of the committee who participated in the meeting.

§ 4

1. The recruitment process is conducted by recruitment committees separately for each scientific discipline in which recruitment to the doctoral school takes place.

2. The purpose of the recruitment process is to select the best candidates for the doctoral school based on the description of the proposed research topic, the interview and the assessment of the candidates' previous scientific experience and achievements, in accordance with the criteria presented in Annexes 1 and 2.

3. The condition for qualifying a candidate for the recruitment process is the completeness of the documents submitted to the head of the scientific discipline and to the administrative office of the doctoral school, referred to in § 2 sec. 5 and 6 and in § 1 sec. 11.

4. The recruitment process is conducted on the basis of an assessment of the documentation submitted by the candidate.

5. During the interview, the following are assessed:

1) the ability to present the research topic;

2) the ability to formulate the scientific goal of the proposed research topic;

3) indication of the scope of research and experiments necessary to achieve the intended goal;

4) ability to use the scientific language appropriate to a given scientific discipline;

5) general knowledge of the scientific discipline in which recruitment is conducted;

6) scientific activity of the candidate, in particular: scientific publications, participation in conferences and research projects (confirmed by appropriate documents).

6. The interview is conducted in Polish.

7. In the recruitment procedure, only the candidate's scientific activity from 1 October 2019 inclusive is taken into account.

8. The number of points obtained by the candidate in the recruitment procedure is the arithmetic mean of the individual assessments of the members of the recruitment committee (Appendix No. 4), increased by the number of points obtained from the assessment of the research issue (Appendix No. 3).

9. Individual assessments given by individual members of the recruitment committee are anonymous.

10. After completing the recruitment process, the recruitment committees prepare minutes of the recruitment committee meeting for the Częstochowa University of Technology Doctoral School and ranking lists for each scientific discipline and submit them in writing to the head of the doctoral school.

11. The ranking list for a specific scientific discipline includes the candidate's first and last name and the number of points awarded in the recruitment process.

12. The maximum number of points that a candidate to the doctoral school can obtain in the recruitment process is 100.

13. The condition for the candidate to be entered on the list of doctoral students by the head of the doctoral school is that they obtain at least 75 points in the recruitment process and do not exceed the limit of places set by the rector.

14. A candidate who has obtained the minimum or higher number of points during the recruitment procedure, while exceeding the limit of places, is entered on the reserve list and may be admitted provided that vacancies appear by October 15.

15. A candidate from the reserve list is entered on the list of doctoral students in the event of vacancies, maintaining the order resulting from the number of points obtained.

16. For candidates applying for a place in a doctoral school in the same scientific discipline, with an identical number of points obtained in the recruitment procedure, the grade on the diploma of completion of second-cycle studies or uniform master's studies is taken into account. In the above-mentioned case, the higher grade obtained decides on admission to the doctoral school.

17. Ranking lists within the scientific disciplines in which the recruitment procedure is conducted are signed by all members of the recruitment committee in a given scientific discipline participating in the committee meeting.

§ 5

1. The dates of conducting the recruitment procedure in individual scientific disciplines are presented in the table below:

Scientific discipline	Deadline for conducting the recruitment procedure	Place of conducting the recruitment procedure
automation, electronics, electrical engineering and space technologies	09.09.2024 9:00 a.m.	conference room of the Doctoral School, J. H. Dąbrowskiego street 69 42-201 Częstochowa room no. 2
technical computer science and telecommunications	09.09.2024 12:00 a.m.	
management and quality sciences	10.09.2024 10:00 a.m.	
mechanical engineering	11.09.2024 10:00 a.m.	
environmental engineering, mining and energy	12.09.2024 10:00 a.m.	
materials engineering	13.09.2024 10:00 a.m.	

2. The results of the recruitment process will be announced on 17.09.2024 and made available through the IRK system and in the administrative office of the doctoral school.

§ 6

1. The results of the competition are public.

2. The basis for the preparation by the head of the doctoral school of the list of doctoral students admitted to the doctoral school are the ranking lists provided by the recruitment committees separate for each of the scientific disciplines within which recruitment to the doctoral school takes place.

3. The candidate's position on the ranking list within a given scientific discipline and the limit of places set by the rector for each of the scientific disciplines constitute the basis for admission to the doctoral school.

4. A doctoral student is admitted to the doctoral school by entering him or her on the list of doctoral students by the head of the doctoral school.

5. Refusal of admission to the doctoral school is made by way of an administrative decision.

6. The decision to refuse admission of a candidate to the doctoral school is signed by the head of the doctoral school.

7. Within 14 days of the date of receipt of the decision refusing admission to the doctoral school, the candidate is entitled to file a motion to have the case reconsidered.

8. The basis for filing a motion to have the case reconsidered may only be an indication of a violation of the conditions and procedure for recruitment to the doctoral school. The motion should indicate the exact provisions specifying the conditions or procedure for recruitment to the doctoral school, which in the opinion of the party were violated.

§ 7

1. All personal data provided by candidates are processed and stored for registration purposes in accordance with applicable regulations and are protected.

2. The University is not responsible for the consequences of a candidate not reading the messages placed on their personal registration account.

Appendix No. 1

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

Table 1. Criteria for assessing the research topic proposed by the candidate.

No.	**Assessment criterion**	**Number of points**	**Maximum points**	**Comments**
1.	Compatibility of the proposed issue with the research problem within the scientific discipline in which recruitment is conducted	0÷10	10	
2.	Possibilities of implementing the proposed research problem based on human resources and research equipment	0 or 10	positive opinion – 10 no opinions – 0	
3.	The originality of the proposed research topic against the background of the candidate's current state of knowledge within the scientific discipline in which the recruitment is conducted	0÷10	10	
Maximum number of points that can be obtained: 30				

Appendix No. 2

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

Table 1. Criteria for assessing the candidate's achievements obtained during the qualification interview.

No.	Assessment criterion	Number of points	Maximum points	Comments
1.	Ability to present a research problem	0÷10	10	
2.	The ability to formulate the scientific goal of the proposed research problem	0÷10	10	
3.	Planning the scope of research and experiments necessary to achieve the intended goal	0÷10	10	
4.	Ability to use scientific language appropriate to the scientific discipline in which the training is to take place	0÷10	10	
5.	General knowledge of the scientific discipline in which the recruitment is conducted	0÷10	10	
6.	Completed studies in the scientific discipline for which recruitment is taking place or a related discipline	0 or 3 or 5	5	– discipline in which recruitment takes place – 5 – related discipline – 3 – none – 0

7.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1 or3 or 4	4	– very good – 4 – good plus – 3 – good – 1
8.	Scientific activity in the field for which recruitment is taking place: • scientific publications, • participation in conferences, etc.	0÷3	3	0,5 per activity
9.	Completed courses and certificates obtained (excluding language courses and certificates) in the field of science for which recruitment is taking place	0÷3	3	0,5 per activity
10.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1 or 3 or 5	5	– certyficate B2 and higher – 5 – certyficate B1 – 3 – other – 1 – none – 0
Maximum number of points that can be obtained: 70				

Appendix No. 3

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

Table 1. Assessment of the research topic proposed by the candidate

Lp.	**Assessment criterion**	**Number of points possible to obtain**	**Number of points obtained by the candidate**
1.	Compatibility of the proposed issue with the research problem within the scientific discipline in which recruitment is conducted	0÷10	
2.	Possibilities of implementing the proposed research problem based on human resources and research equipment	0 or 10	
3.	The originality of the proposed research topic against the background of the candidate's current state of knowledge within the scientific discipline in which the recruitment is conducted	0÷10	
Total number of points obtained by the candidate:			

Appendix No. 4

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

Table 1. The candidate's score during the interview

Lp.	Kryterium oceny	Number of points possible to obtain	Number of points obtained by the candidate
1.	Ability to present a research problem	0÷10	
2.	The ability to formulate the scientific goal of the proposed research problem	0÷10	
3.	Planning the scope of research and experiments necessary to achieve the intended goal	0÷10	
4.	Ability to use scientific language appropriate to the scientific discipline in which the training is to take place	0÷10	
5.	General knowledge of the scientific discipline in which the recruitment is conducted	0÷10	
6.	Completed studies in the scientific discipline for which recruitment is taking place or a related discipline	0 or 3 or 5	

7.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1 lub 3 or 4	
8.	Scientific activity in the field for which recruitment is taking place: • scientific publications, • participation in conferences, etc.	0÷3	
9.	Completed courses and certificates obtained (excluding language courses and certificates) in the field of science for which recruitment is taking place	0÷3	
10.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1 lub 3 or 5	
Total number of points obtained by the candidate:			

Appendix No. 5

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

Name and surname of candidate: ……

Personal ID Number | | | | | | | | | | |

Declaration

I declare that I hold a doctoral degree in the scientific discipline of ……...
……...……/I do not hold a doctoral degree.

..……..……
date and candidate's signature

Appendix No. 6

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

Name and surname of candidate: ……

Personal ID Number | | | | | | | | | | |

Declaration

I declare that I am starting my education at one doctoral school, which is the Doctoral School of the Częstochowa University of Technology.

..……..……

date and candidate's signature

Appendix No. 7

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

Name and surname of candidate: ……

Personal ID Number | | | | | | | | | | |

To the Rector's Representative for people with disabilities
by
the Head of the Doctoral School of the Częstochowa University of Technology

I hereby apply for support in the recruitment process to the Doctoral School of the Częstochowa University of Technology in the form of:……...
……., which results from the certificate of disability/documented chronic disease.

..……..……
date and candidate's signature

Appendix No. 8

to the Rules of recruitment to the Doctoral School of Częstochowa University of Technology in the academic year 2024/2025 (RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology)

…….
name and surname
…….
organizational unit
…….
position

Rector
of Częstochowa University of Technology
Prof. rr. hab. eng. Norbert Sczygiol

I hereby request your consent to participate in the recruitment process for the Częstochowa University of Technology Doctoral School.

……...……...…….
date and signature of candidate

I support/do not support the request

……..…
date and signature of direct superior

Rector's decision

I consent/do not consent[1] to participate in the recruitment process for the Częstochowa University of Technology Doctoral School. Admission to the Doctoral School is associated with a reduction in the number of full-time positions to ……., resulting from the need to provide education and conduct scientific research.

..……...……
date and signature

Resolution No. 26/2025
of the Senate of the Częstochowa University of Technology
of March 19, 2025

regarding: the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology conducted in the 2025/2026 academic year

1. The Senate of the Częstochowa University of Technology, pursuant to Article 200 paragraph 2 of the Act of 20 July 2018 - Law on Higher Education and Science (Journal of Laws of 2024, item 1571, as amended), in an open vote, determined the conditions and procedure for recruitment to the Doctoral School of the Częstochowa University of Technology in the academic year 2025/2026, in accordance with the annex to this resolution.

2. This Resolution comes into effect on the date of its adoption.

Rector

Appendix
to the Resolution No. 26/2025
of the Senate of the Częstochowa University of Technology of March 19, 2025

Rules for Admission
to the Doctoral School of the Częstochowa University of Technology
in the 2025/2026 academic year

§ 1

1. The admission requirements for the Doctoral School of the Częstochowa University of Technology, hereinafter referred to as the Doctoral School, are specified in the following scientific fields/disciplines: dyscyplinach naukowych:

field of science	**Discipline**
Engineering and technical sciences	- Automation, electronics, and electrical engineering - Technical computer science and telecommunications - Materials engineering - Mechanical engineering - Environmental engineering, mining, and energy
Social sciences	- Management and quality sciences

2. By participating in the recruitment process, the Candidate accepts the regulations of the Doctoral School of the Częstochowa University of Technology and the Rules of Admission to the Doctoral School of the Częstochowa University of Technology.

3. A person holding a professional title of: Master of Science, Master of Science in Engineering, or its equivalent, or a person referred to in Article 186, Section 2, of the Act of July 20, 2018 - Law on Higher Education and Science (Journal of Laws of 2024, item 1571, as amended), hereinafter referred to as the Act, may be admitted to the doctoral school.

4. Recruitment to the doctoral school is conducted through a competition:

a) regular, enabling the commencement of education at the doctoral school on October 1,

b) special, enabling the commencement of education at the doctoral school twice a year outside the established dates, linked to the results of competitions for places in which the doctoral scholarship is financed from sources other than the funds indicated in Article 409 of the Act.

5. The limit of places for the first year of education at the doctoral school for regular recruitment is established by the Rector.

6. Doctoral students admitted through special recruitment do not count against the admission limits established by the Rector. At the request of the Head of the Doctoral School, the Rector may approve the announcement of supplementary recruitment.

7. Candidates with disabilities or chronic illnesses are provided with assistance and facilities during the recruitment process tailored to their individual needs. The Rector's Representative for Persons with Disabilities determines the form of assistance during the recruitment process individually for each candidate with a disability or chronic illness based on an analysis of the submitted medical documentation.

8. Foreigners may undertake studies at the Doctoral School based on currently applicable regulations.

9. Foreigners who possess sufficient Polish language proficiency to undertake studies in this language may apply for admission to the Doctoral School.

10. A candidate for a doctoral school may not participate in the recruitment process in the scientific discipline in which a promotion procedure has been initiated.

11. If a person applying for admission to the doctoral school has been subject to a disciplinary penalty or has been convicted by a final judgment for an intentional offence or an intentional tax offence, that person is obliged to inform the head of the doctoral school thereof in writing. Concealing such information may result in refusal to admit a candidate to the doctoral school or removal from the list of doctoral students.

§ 2

1. Registration of candidates for the doctoral school is conducted in the IRK system from August 5, 2025, from 8:00 AM to September 24, 2025, at 11:59 PM.

2. The Częstochowa University of Technology is not responsible for the inability to register or make changes due to network outages beyond the University's control or periodic overloads of the University's servers.

3. Online registration is considered successful if all required data is entered by the candidate.

4. The candidate is obligated to keep the password to their personal registration account confidential. The University is not responsible for the consequences of sharing this password with third parties, in particular for changes to entries authorized by this password.

5. After registering in the IRK system and paying the PLN 200 application fee to the account number provided in the system, the candidate must submit the following documents to the doctoral school's administrative office to August 28, 2025:

1) to the Vice-Dean for Science representing the appropriate scientific discipline

– a signed summary of the candidate's professional career (maximum 4 A4 pages, Arial 12 font, 1.15 line spacing) taking into account the evaluation criteria contained in Appendix 1;

2) submit the following documents to the administrative office of the doctoral school:

a) application for admission to the doctoral school, generated from the IRK system,

b) original confirmation of payment of the application fee,

c) consent from the Rector to undertake studies at the doctoral school (applies to individuals employed by the University – Appendix 8),

d) graduates of foreign universities must submit the original of their higher education diploma, and in the case of a diploma that, in accordance with applicable law, is subject to recognition through nostrification, also a certificate issued by the entity performing the nostrification confirming the equivalence of the diploma obtained abroad with a higher education diploma in Poland,

e) identity document (e.g., ID card, passport, Polish Citizen's Card),

f) document confirming a change of name (applies to individuals with a diploma issued in a name different from the one on the application for admission to the doctoral school),

g) diplomas of completion of first-cycle and second-cycle studies or long-cycle master's studies,

h) three photographs, without headgear, against a light background (45" format). mm x 65 mm),

i) certificates confirming knowledge of foreign languages,

j) information on completed courses and certificates obtained (up to 6 certificates confirming, among other things, knowledge of specialized computer programs, completed postgraduate studies, and courses related to the academic discipline within which recruitment to the doctoral school is conducted – if the candidate has them),

k) information on scientific activity (scientific publications, participation in scientific conferences and research projects),

l) declaration of not holding a doctoral degree (Appendix No. 5),

m) declaration of commencement of education at one doctoral school, in accordance with Article 200, Section 7 of the Act (Appendix No. 6),

n) application for support in the recruitment process (applies to individuals with disabilities or chronic illnesses – Appendix No. 7).

7. In the case of a candidate who participated in doctoral studies at the Częstochowa University of Technology, the description of the research topic proposed for implementation

as part of education at the doctoral school must be different from the topic pursued during the doctoral studies.

§ 3

1. The head of the doctoral school, in consultation with the vice-deans for science representing the relevant scientific disciplines, appoints recruitment committees, separately for each of the scientific disciplines within which recruitment to the doctoral school is conducted.

2. Each recruitment committee shall consist of:

a) the head of the doctoral school, who shall serve as the chairperson;

b) the head/coordinator of the academic discipline in which the recruitment process to the doctoral school is conducted;

c) two individuals holding the title of professor or at least the academic degree of doktor habilitowany, designated by the head of the discipline within which recruitment is conducted;

d) a representative of the doctoral student self-government;

e) a secretary, designated by the head of the doctoral school.

3. Recruitment committees are appointed for an academic year.

4. The head of the doctoral school directs the work of the recruitment committees.

5. The responsibilities of the recruitment committees include:

a) conducting the recruitment process;

b) preparing ranking lists of candidates for the doctoral school within the disciplines in which the admissions process is conducted;

c) reviewing applications for reconsideration of a case regarding a refusal to admit to the doctoral school.

6. During the meeting of the admissions committee, only committee members may be present in the meeting room.

7. The head of the doctoral school may invite other persons to the meeting of the admissions committee. The presence of persons other than committee members and candidates is recorded in the minutes referred to in § 13 section 12. .

8. Members of the admissions committee are obligated to maintain impartiality and objectivity in assessing candidates for the doctoral school.

9. A member of the admissions committee shall inform the other members of the admissions committee of any circumstances that may affect their impartiality and objectivity in assessing a candidate for the doctoral school.

10. Members of the selection committee, with the exception of the secretary, have equal voting rights.

11. Decisions of the selection committee are made by a simple majority vote, with at least half of the selection committee members present. In the event of an equal number of votes for and against, the chairperson has the casting vote.

12. Minutes of selection committee meetings are kept, and the minutes are signed by the chairperson and the committee members who participated in the meeting.

§ 4

1. The recruitment process is conducted by recruitment committees separately for each scientific discipline in which recruitment to the doctoral school takes place.

2. The purpose of the recruitment process is to select the best candidates for the doctoral school based on a description of the proposed research topic, an interview, and an assessment of the candidates' previous scientific experience and achievements, in accordance with the criteria presented in Annexes 1 and 2.

3. A candidate's qualification for the recruitment process is contingent upon the completeness of the documents submitted to the Vice-Dean for Research representing the relevant scientific discipline and to the administrative office of the doctoral school, as referred to in § 2, section 6 and § 1, section 11.

4. The recruitment process is conducted based on an evaluation of the documentation submitted by the candidate and the interview.

5. During the interview, the following are assessed:

1) the ability to present the research topic;

2) the ability to formulate the scientific objective of the proposed research topic;

3) the scope of research and experiments necessary to achieve the intended goal;

4) the ability to use the scientific language appropriate for the given scientific discipline;

5) general knowledge of the scientific discipline in which the recruitment is conducted;

6) the candidate's scientific activity, in particular: scientific publications, participation in conferences, and research projects (confirmed by appropriate documents).

6. The interview will be conducted in Polish.

7. Only the candidate's scientific activity from October 1, 2020 inclusive will be taken into account in the recruitment process.

8. The number of points obtained by the candidate in the recruitment process is the arithmetic average of the individual ratings of the recruitment committee members (Appendix 4), increased by the number of points obtained from the evaluation of the research topic (Appendix 3).

9. Individual ratings given by individual members of the recruitment committee are anonymous.

10. After completing the recruitment process, the admissions committees prepare minutes of the recruitment committee meeting for the Doctoral School of the Częstochowa University of Technology and ranking lists for each scientific discipline and submit them in writing to the head of the doctoral school.

11. The ranking list for a given scientific discipline includes the candidate's first and last name and the number of points awarded during the recruitment process.

12. The maximum number of points a candidate can obtain in the recruitment process is 100.

13. The condition for a candidate to be included on the list of doctoral students by the head of the doctoral school is that they obtain at least 75 points during the recruitment process and do not exceed the quota of places established by the rector.

14. A candidate who obtains the minimum or higher number of points during the recruitment process but exceeds the quota of places will be placed on a reserve list and may be admitted provided that places become available by October 15th.

15. A candidate on the reserve list will be added to the doctoral student list if there are any available places, in the order of points obtained.

16. For candidates applying for a place at a doctoral school in the same scientific discipline and with the same number of points obtained in the admissions process, the grade on the diploma of the second-cycle or long-cycle master's degree program is taken into account. In the aforementioned cases, the higher grade obtained determines admission to the doctoral school.

17. Ranking lists within the scientific disciplines in which the admissions process is conducted are signed by all members of the admissions committee in the given scientific discipline participating in the committee meeting.

§ 5

The recruitment deadlines for individual disciplines are presented in the table:

Discipline	**Deadline for the recruitment procedure**	**Place of conducting the recruitment procedure**
automation, electronics and	8.09.2025 , at 10:00	The location of the

electrical engineering		recruitment process will be announced on the doctoral school website and at the doctoral school administrative office.
technical computer science and telecommunications	9.09.2025 , at 10:00	
management science and quality	10.09.2025 , at 10:00	
mechanical engineering	11.09.2025., at 10:00	
environmental engineering, mining and energy	12.09.2025, at 10:00	
materials engineering	15.09.2025, at 10:00	

The results of the recruitment process will be announced on September 17, 2025 and made available via the IRK system and at the administrative office of the doctoral school.

§ 6

1. The competition results are public.
2. The basis for the preparation by the head of the doctoral school of the list of doctoral students admitted to the doctoral school is the ranking lists submitted by the recruitment committees for each scientific discipline within which recruitment to the doctoral school takes place.
3. The candidate's position on the ranking list within a given scientific discipline and the quota of places established by the rector for each scientific discipline constitute the basis for admission to the doctoral school.
4. A doctoral student is admitted to the doctoral school by being entered on the list of doctoral students by the head of the doctoral school.
5. Refusal of admission to the doctoral school is made by way of an administrative decision.
6. The decision refusing admission to the doctoral school is signed by the head of the doctoral school.
7. The candidate has the right to request a reconsideration of the decision refusing admission to the doctoral school within 14 days of its receipt.
8. A request for reconsideration may only be based on a violation of the doctoral school's admissions requirements and procedures. The request should specify the specific regulations specifying the doctoral school's admissions requirements and procedures that, in the party's opinion, were violated.
9. Only candidates who have not submitted their admissions documents to the doctoral school's administrative office and a self-report to the Vice-Dean for Research representing the relevant academic discipline may apply for a refund of the application fee.

§ 7

1. All personal data provided by candidates is processed and stored for registration purposes in accordance with applicable regulations and is subject to protection.
2. The University is not responsible for the consequences of a candidate's failure to review the messages posted in their personal registration account.

Appendix No. 1
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

Table 1. Criteria for assessing the research problem proposed by the candidate.

No..	Criteria	Number of points	Maximum number of points	Notes
1.	the ability to define the research question and indicate its intended purpose,	0÷10	10	
2.	the consistency of the proposed question with the research issues within the scientific discipline in which recruitment is being conducted,	0 or 10	positive – 10 no opinion – 0	
3.	the originality of the proposed question.	0÷10	10	
Maximum number of points that can be obtained : 30				

Appendix No. 2
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

Table 1. Criteria for assessing the candidate's achievements obtained during the interview

No..	Criteria	Number of points	Maximum number of points	Notes
1.	Specified research problem	0÷10	10	
2.	The ability to formulate the scientific goal of the proposed research problem	0÷10	10	
3.	Planning the scope of research and experiments necessary to achieve the intended goal	0÷10	10	
4.	Ability to use scientific language appropriate to the scientific discipline in which the training is to take place .	0÷10	10	
5.	General knowledge of the scientific discipline in which the recruitment is conducted	0÷10	10	
6.	Completed studies in the discipline for which recruitment is taking place or a related discipline	0 or, 3, or 5	5	0 - none 3 - related discipline 5 - discipline in which recruitment takes place
7.	Grade on the diploma of completion of first and second cycle studies or uniform master's studies	0 or 1, or 3, or 4	4	Very good - 4 Good plus - 3 Good – 1 <Good – 0

8.	Scientific activity in the field for which recruitment is being conducted: - scientific publications, - conference participation - etc.	0÷3	3	0,5 for activity
9.	Completed courses and obtained certificates (excluding language courses and certificates) in the field for which recruitment is taking place	0÷3	3	0,5 for activity
10.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1, or 3, or 5	5	B2 and higher – 5 B1 – 3 other – 1 none - 0
Maximum number of points that can be obtained : 70				

Appendix No. 3
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

Candidate's name and surname: ……..……

Scientific discipline: ..…….. …….

Table 1. Assessment of the research topic proposed by the candidate.

No.	Criteria	Number of points possible to obtain	Number of points obtained by the candidate
1.	Assessment by the Vice-Dean for Science representing the appropriate scientific discipline regarding the compatibility of the proposed topic with the research issues within the scientific discipline in which recruitment is being conducted	0÷10	
2.	Opinion of the Vice-Dean for Science representing the relevant scientific discipline regarding the feasibility of implementing the proposed research topic based on human resources and research equipment	0 or 10	
3.	Assessment by the Vice-Dean for Science representing the appropriate scientific discipline regarding the originality of the proposed research topic	0÷10	
Total number of points that can be obtained: 30			

Appendix No. 4
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

Candidate's name and surname: ……...……

Scientific discipline: ..…….. …….

Table 1. The score obtained by the candidate during the interview

No.	**Criteria**	**Number of points possible to obtain**	Number of points obtained by the candidate
1.	The recruitment committee's assessment of the candidate's ability to present the research topic	0÷10	
2.	The recruitment committee's assessment of the candidate's ability to formulate the scientific goal of the proposed research topic	0÷10	
3.	The recruitment committee's assessment of the candidate's planning of the scope of	0÷10	

	research and experiments necessary to achieve the intended goal		
4.	The recruitment committee's assessment of the candidate's ability to use scientific language appropriate to the scientific discipline in which the training is to take place	0÷10	
5.	The recruitment committee's assessment of the candidate's general knowledge of the scientific discipline within which the recruitment is being conducted	0÷10	
6.	Completed studies in the scientific discipline for	0 or 3 or 5	

	which the recruitment is being conducted or a related discipline		
7.	Grade on the diploma of first-cycle and second-cycle studies or long-cycle master's studies	0 or 1 or 3 or 4	
8.	Scientific activity in the field of science for which recruitment is taking place: • scientific publications, • participation in conferences, etc.	0÷3	
9.	Completed courses and certificates obtained (excluding language courses and certificates) in the field of science for	0÷3	

	which recruitment is taking place		
10.	Knowledge of a modern foreign language confirmed by a certificate	0 or 1 or 3 or 5	
Total number of points that can be obtained:			

7.	Ocena na dyplomie ukończenia studiów I i II stopnia lub jednolitych studiów magisterskich	0 or 1 or 3 or 4	
8.	Aktywność naukowa w zakresie dziedziny nauki, dla której odbywa się rekrutacja: – publikacje naukowe, – udział w konferencjach itp.	0÷3	
9.	Ukończone kursy i zdobyte certyfikaty (z wyłączeniem kursów i certyfikatów językowych) w zakresie dziedziny nauki, dla której odbywa się rekrutacja	0÷3	
10.	Znajomość obcego języka nowożytnego potwierdzona certyfikatem	0 or 1 or 3 or 5	
Total number of points that can be obtained:			

Appendix No. 5
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

Candidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am starting my education at one doctoral school and that it is the Doctoral School of the Czestochowa University of Technology.

……
date and signature of the candidate

Appendix No. 6
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

ICandidate's name and surname :……

PESEL | | | | | | | | | | |

Declaration

I declare that I am commencing my studies at one doctoral school, which is the Doctoral School of the Częstochowa University of Technology.

..……..……
date and signature of the candidate

Appendix No. 7
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

Candidate's name and surname: ……...

Contact details: ……...…

(phone, e-mail, other)

PESEL | | | | | | | | | | |

To the Rector's Representative for Persons with Disabilities

by

Head of the Doctoral School of the Częstochowa University of Technology

hereby apply for support in the recruitment process to the Doctoral School of the Częstochowa University of Technology in the form of: ……... ……., which results from the disability certificate/documented chronic illness1.

..……..…

date and signature of the candidate

..

Appendix No. 8
to the Resolution No. 26/2025 of the Senate of the Częstochowa University of Technology of March 19, 2025

.....
Name and surname
.....
Organizational uni
t .....
Position

His Magnificence Rector

of the Częstochowa University of Technology

Dr. Marek Warzecha, DSc, Eng., Prof. CUT

I hereby request your consent to participate in the recruitment process for the Doctoral School of the Częstochowa University of Technology.

……..……..……

date and candidate's signature

I support/disagree with the request1

……..……..……

Date and signature of immediate supervisor

Rector's decision I consent/disagree with the request[1] to participate in the recruitment process for the Doctoral School of the Częstochowa University of Technology. Admission to the Doctoral School is associated with a reduction in full-time employment to ……., resulting from the need to provide education and conduct research.

..……

Date and signature of Rector

The principles for conducting the mid-term evaluation at the Doctoral School (SD) were not established by a separate legal act, but are contained in the Regulations in § 9, paragraphs 8-27. Based on experience, the assumptions have been developed according to which the evaluation is conducted for all doctoral students at the beginning of the fifth semester of their studies, in October. The Head of SD, in consultation with the Vice-Deans for Research representing the scientific disciplines in which the evaluation is conducted, appoints three-person committees (in the fourth semester). In the event of discrepancies in the topics of the research papers prepared by the doctoral students, multiple committees may be established. The committee consists of:

- the Vice-Dean for Research, who is also the committee chairperson;
- a person with at least a postdoctoral degree supporting the scientific discipline in which the evaluation is conducted;
- a person employed outside the university who holds the title of professor or at least a postdoctoral degree in the scientific discipline in which the doctoral students' dissertations are prepared.

In justified cases (e.g., conflict of interest), the Vice-Dean may propose another person to serve as the committee chairperson. Doctoral supervisors cannot be members of the committee. The head of the SD may participate in the proceedings as an observer without voting rights, and their presence is recorded in the minutes.

Doctoral students are required to submit documentation to the Vice-Dean for Research by September 30th, based on which the committee conducts the mid-term evaluation. This documentation consists of the doctoral student's self-report on the implementation of the research schedule included in the IRP, the supervisor(s)' opinion on the doctoral student's scientific development, and other documents confirming the doctoral student's achievements. Prepared documents are also submitted electronically and forwarded to committee members so they can familiarize themselves with the dissertation topic before the scheduled meeting date.

During the committee meeting, doctoral students present their achievements individually. After all presentations have been completed, members evaluate the doctoral students in a closed session. The results are announced the same day individually for each scientific discipline and generally for all doctoral students, after all committees have concluded their work. The chair of each committee presents the evaluation report, along with the documentation submitted by the doctoral students, to the head of the PhD Student Research Center within seven days of the evaluation. A positive evaluation result provides the basis for continuing education and increasing the scholarship amount from November 1st. A negative result results in removal from the list of doctoral students. A negative evaluation may be appealed. To date, only one person participating in the mid-term evaluation (the first round in 2021) has received a negative result. After exhausting the appeals procedure at the MS, the doctoral student exercised her right and brought the matter to the Regional Administrative Court, which upheld the decision of the SD head.

To ensure transparency in the evaluation process, in 2022, Sections 20 and 22 were added to § 9 of the SD Regulations, and Section 21 was clarified, allowing, with the doctoral student's consent, the making of an audio recording for the preparation of the report.

Excerpt from the Regulations of the Doctoral School of the Częstochowa University of Technology regarding the conduct of mid-term evaluation of doctoral students

§ 9 [Individual Research Plan and Mid-Term Evaluation]

8. The implementation of the IRP is subject to a mandatory mid-term evaluation after the end of the fourth semester of education, but no later than three months after the beginning of the fifth semester.
9. The mid-term evaluation is conducted by mid-term evaluation committees, appointed by the head of the doctoral school at the beginning of each fourth semester of the education cycle, separately for each scientific discipline in which the doctoral school is conducted. More than one mid-term evaluation committee may be appointed in each scientific discipline.
10. The Vice-Deans for Research representing the relevant scientific disciplines submit a proposal for the composition of the mid-term evaluation committee to the head of the doctoral school.
11. The mid-term evaluation committee shall consist of three persons, including at least one person holding a postdoctoral degree or a professor in the scientific discipline in which the doctoral dissertation is being prepared and employed outside the University. The chairperson of each committee is the Vice-Dean for Science representing the relevant scientific discipline within which the mid-term evaluation is taking place. In justified cases, the Vice-Dean for Science representing the relevant scientific discipline may designate another person to serve as chairperson of the mid-term evaluation committee.
12. A person cannot be a member of the mid-term evaluation committee if, within the last five years, they:
1) supervised four doctoral students who were removed from the list of doctoral students due to a negative mid-term evaluation, or
2) supervised the preparation of a dissertation by at least two previous persons.
13. A member of the mid-term evaluation committee employed outside the University is entitled to remuneration equal to 20% of a professor's salary.
14. The supervisor, in consultation with the Vice-Deans for Research representing the relevant scientific disciplines, sets the dates for the mid-term evaluation committee meetings for all doctoral students representing the scientific discipline within which the mid-term evaluation is taking place.
15. A doctoral student's supervisor may not be a member of the committee conducting the mid-term evaluation of the doctoral student under their supervision.
16. The supervisor may participate in the mid-term evaluation committee meeting as an observer.
17. The mid-term evaluation is conducted based on:
1) documentation confirming the completion of the IRP;
2) the supervisor's opinion regarding the doctoral student's academic development;
3) the doctoral student's self-report on the progress of the IRP and a discussion during which the doctoral student is asked questions regarding the completion of the IRP.
18. The doctoral student must submit the documentation referred to in § 9, section 17, to the Vice-Dean for Research representing the appropriate academic discipline by September 30th.
19. The mid-term evaluation ends with a positive or negative result. The mid-term evaluation committee adopts the evaluation by a majority vote.
20. With the doctoral student's consent, the chair of the mid-term evaluation committee prepares an audio recording for the purpose of preparing the minutes of the committee meeting.
21. Within 7 days of the evaluation, the chair of the mid-term evaluation committee shall submit to the supervisor the minutes along with a justification containing the results of the

mid-term evaluation and the documentation referred to in § 9, section 17, along with the audio recording of the committee meeting.
22. This recording is deleted by the supervisor at the end of the month in which:
1) the mid-term evaluation was conducted (applies to a doctoral student who received a positive evaluation);
2) the decision to remove the candidate from the list of doctoral students has become final (applies to a doctoral student who received a negative assessment).
23. A positive assessment allows for further study and an increase in the scholarship amount.
24. A negative result of the mid-term assessment results in removal from the list of doctoral students by the supervisor.
25. A request for reconsideration may be filed against the removal decision issued by the supervisor.
26. At the supervisor's request, an internal committee consisting of the supervisor, the Vice-Dean for Research representing the relevant scientific discipline, and a person holding a postdoctoral degree or the title of professor in the discipline in which the doctoral dissertation is being prepared, may conduct an assessment of the candidate's implementation of the IRP and the curriculum at any stage of their education.
27. A negative assessment of the procedure referred to in § 9, section 24 results in removal from the list of doctoral students.

The acts appointing the mid-term evaluation committee are listed below in chronological order.

Częstochowa, May 18, 2021

Pursuant to § 9, Section 13 of the Regulations of the Doctoral School of the Częstochowa University of Technology, I hereby appoint committees to conduct the mid-term evaluation of second-year doctoral students of the Doctoral School of the Częstochowa University of Technology in the following disciplines:

Management and Quality Sciences
Dr. DSc, Eng Marlena Grabowska, Prof. CUT – Chairperson;
Dr. DSc, Eng Piotr Pachura, Prof. CUT;
Prof. Dr. DSc, Eng Joanna Maria Moczydłowska – Białystok University of Technology;

Automation, Electronics, and Electrical Engineering
Dr. DSc, Eng Krzysztof Chwastek, Prof. CUT – Chairperson;
Prof. Dr. DSc, Eng Waldemar Minkina;
Prof. Dr. DSc, Eng Roman Szewczyk – Warsaw University of Technology;

Technical Information Technology and Telecommunications
Prof. Dr. DSc, Eng Robert Nowicki – Chairman;
PhD, DSc, Eng Krzysztof Rojek,
Prof. CUT; PhD, DSc, Eng Norbert Jankowski, Prof. UMK, Toruń;

Materials Engineering
PhD, DSc, Eng Rafał Prusak, Prof. CUT – Chairman;
PhD, DSc, Eng Michał Szota, Prof. CUT; PhD,
DSc, Eng Grzegorz Moskal, Prof. PŚl, Katowice;

Mechanical Engineering
PhD, DSc, Eng Janusz Szmidla, Prof. CUT – Chairman;
PhD, DSc, Eng Maciej Marek, Prof. CUT;
Prof. Andrzej Gontarz – Lublin University of Technology;

Environmental Engineering, Mining, and Energy
PhD, DSc, Eng Iwona Zawieja, Prof. CUT – Chairman;
PhD, DSc, Eng Agata Rosińska, Prof. CUT;
Prof. Jarosław Zuwała, PhD, DSc, Eng – Institute for Chemical Processing of Coal, Zabrze;

Planned assessment date: first half of November 2021.

Head of SD

Częstochowa, July 4, 2022

RN-SD.5024.1.2022

Pursuant to § 9, Section 13 of the Regulations of the Doctoral School of the Częstochowa University of Technology, I hereby appoint committees to conduct the mid-term evaluation of second-year doctoral students of the Doctoral School of the Częstochowa University of Technology in the following disciplines:

Management and Quality Sciences
Dr. DSc. Agata Mesjasz-Lech, Prof. CUT – Chairperson;
Dr. DSc. Eng. Anna Lemańska-Majdzik, Prof. CUT;
Dr. DSc. Eng. Agnieszka Sopińska, Warsaw School of Economics;

Technical Information Technology and Telecommunications
Prof. Dr. DSc. Eng. Robert Nowicki – Chairperson;
Dr. DSc. Eng. Łukasz Szustak,
Prof. CUT; Dr. DSc. Eng. Adam Niewiadomski, Prof. Lodz University of Technology

Materials Engineering
Dr. DSc. Eng. Rafał Prusak, Prof. CUT – Chairperson;
Dr. DSc. Eng. Piotr Szota, Prof. CUT;
Dr. DSc. Eng. Aneta Hanc-Kuczkowska, Prof. UŚ, University of Silesia in Katowice;

Mechanical Engineering
Dr. DSc. Eng. Janusz Szmidla, Prof. CUT – Chairperson;
Dr. DSc. Eng. Maciej Marek, Prof. CUT;
Dr. DSc. Eng. Mirosław Szczepanik, Prof. PŚ, Silesian University of Technology;

Environmental Engineering, Mining, and Energy
Dr. DSc. Eng. Iwona Zawieja, Prof. CUT – Chairperson;
Dr. DSc. Eng. Katarzyna Wystalska,
Prof. CUT; Prof. Dr. DSc. Eng. Marcin Zieliński, University of Warmia and Mazury

The planned date for the evaluation is October 2022.

Head of SD

Częstochowa, October 10, 2022

RN-SD.5024.1.2022.38

Rector
of the Częstochowa University of Technology
Prof. Dr. DSc, Eng. Norbert Sczygiol

I hereby request your consent to appoint a new member of the committee for the mid-term evaluation of third-year doctoral students of the Doctoral School of the Częstochowa University of Technology studying in the scientific discipline of Environmental, Mining, and Energy Engineering. The committee meeting is scheduled for October 19, 2022. Participation of Ms. Katarzyna Wystalska, PhD, DSc, Eng., Prof. CUT, appointed by the Head of the Doctoral School to the Mid-Term Evaluation Committee in letter no. RN-SD.5024.1.2022 dated July 4, 2022, is unable to meet on the scheduled date for reasons beyond his control.

Head of SD

Częstochowa, October 10, 2022

RN-SD.5024.1.2022.39

Pursuant to letter no. RN-SD.5024.1.2022.38, with the consent of the Rector of Częstochowa University of Technology, I hereby appoint a new member to the mid-term evaluation committee for third-year doctoral students of the Doctoral School of Częstochowa University of Technology in the scientific discipline of Environmental Engineering, Mining, and Energy:

Environmental Engineering, Mining, and Energy:
Dr. DSc, Eng. Iwona Zawieja, Prof. CUT – Chairperson;
Dr. DSc, Eng. Anna Grosser, Prof. CUT;
Prof. Dr. DSc, Eng. Marcin Zieliński, University of Warmia and Mazury Ms. Dr. DSc, Eng.

Anna Grosser, Prof. CUT. She was appointed to the Mid-Term Evaluation Committee, replacing Dr. Katarzyna Wystalska, DSc, Eng., Professor at the Faculty of Physics and Mechanics of the University of Lublin.

The evaluation is scheduled for October 19, 2022.

Head of SD

Częstochowa, June 28, 2023

RN-SD.5024.1.2023

Pursuant to § 9, paragraph 8 and paragraph 10 of the Regulations of the Doctoral School of the Częstochowa University of Technology, I hereby appoint committees to conduct the mid-term evaluation of second-year doctoral students of the Doctoral School of the Częstochowa University of Technology in the following disciplines:

Management and Quality Sciences:
Dr. DSc Agata Mesjasz-Lech, Prof. CUT – Chairperson;
Dr. DSc Eng Joanna Nowakowska-Grant,
Prof. CUT; Dr. DSc Eng Paweł Cabała, Prof. UEK, Cracow University of Economics;

Automation, Electronics, Electrical Engineering, and Space Technologies:
Dr. DSc Eng Krzysztof Chwastek, Prof. CUT – Chairperson;
Dr. DSc Eng Sebastian Dudzik, Prof. CUT;
Dr. DSc Eng Roman Pniewski, PhD, Eng., UTH, University of Technology and Humanities Radom

Mechanical Engineering
Dr. Janusz Szmidla, PhD, Eng., Prof. CUT – Chairperson;
Dr. Maciej Marek, PhD, Eng., Prof. CUT;
Dr. Adam Długosz, PhD, Eng., Silesian University of Technology;

Environmental, Mining, and Energy Engineering
Dr. Iwona Zawieja, PhD, Eng., Prof. CUT – Chairperson;
Dr. Mariusz Kowalczyk, PhD, Eng., Prof. CUT;
Prof. Anna Skorek-Osikowska, PhD, Eng., Silesian University of Technology, Faculty of Environmental and Energy Engineering

Planned evaluation date: October 2023.

Head of SD

Częstochowa, October 16, 2023

RN-SD.5024.1.2023

Rector
of the Częstochowa University of Technology
Prof. Norbert Sczygiol, PhD, DSc, Eng

I hereby request your consent to appoint a new member of the committee for the mid-term evaluation of third-year doctoral students at the Doctoral School of the Częstochowa University of Technology studying in the scientific discipline of Environmental, Mining, and Energy Engineering. The committee meeting is scheduled for October 19, 2023.
Mr. Mariusz Kowalczyk, PhD, DSc, Eng, Professor of the Częstochowa University of Technology, appointed by the Head of the Doctoral School to the mid-term evaluation committee in letter no. RN-SD.5024.1.2023 dated June 28, 2023, is unable to participate on the scheduled date for reasons beyond his control.

Head of SD

Częstochowa, October 16, 2023

RN-SD.5024.1.2023.1

In agreement with the proposals of the heads of the scientific disciplines of Environmental Engineering, Mining, and Energy, Dr. DSc, Eng. Iwona Zawieja, Professor of CUT, and Automation, Electronics, Electrical Engineering, and Space Technologies, Dr. DSc, Eng. Krzysztof Chwastek, Professor of CUT, I hereby appoint new members to the mid-term evaluation committee for third-year doctoral students of the Doctoral School of Częstochowa University of Technology, as follows:

Environmental Engineering, Mining, and Energy:

Dr. DSc, Eng. Iwona Zawieja, Professor of CUT – Chairperson;
Dr. DSc, Eng. Tomasz Kamizela, Professor of CUT;
Dr. DSc, Eng. Anna Skorek-Osikowska, Silesian University of Technology

Mr. Dr. DSc, Eng. Tomasz Kamizela, professor at CUT, has been appointed to the mid-term evaluation committee in place of Dr. DSc, Eng. Mariusz Kowalczyk, professor at CUT. The planned evaluation date is October 19, 2023.

Automation, Electronics, Electrical Engineering, and Space Technologies:

Dr. DSc, Eng. Krzysztof Chwastek, professor at CUT – chairperson;
Dr. DSc, Eng. Mariusz Najgebauer, professor at CUT;
Dr. DSc, Eng. Roman Pniewski, professor at UTH Radom

Dr. DSc, Eng. Mariusz Najgebauer, professor at CUT, has been appointed to the mid-term evaluation committee in place of Dr. DSc, Eng. Sebastian Dudzik, professor at CUT. The planned evaluation date is October 20, 2023.

Head of SD

Częstochowa, November 17, 2023

RN-SD.5024.1.2023.2

In agreement with the request of the head of the scientific discipline of Automation, Electronics, Electrical Engineering, and Space Technologies, Dr. DSc, Eng. Krzysztof Chwastek, Professor of the Częstochowa University of Technology, I hereby appoint a new committee for the mid-term evaluation of third-year doctoral students at the Doctoral School of the Częstochowa University of Technology, with the following composition:
Automation, Electronics, Electrical Engineering, and Space Technologies:
Dr. DSc, Eng. Krzysztof Chwastek, Professor of the Częstochowa University of Technology – Chairperson;
Dr. DSc, Eng. Mariusz Najgebauer, Professor of the Częstochowa University of Technology;
Dr. DSc, Eng. Andrzej Waindok, Professor of the Opole University of Technology.

Planned evaluation date: November 24, 2023.

Head of SD

Częstochowa, June 12, 2024

RN-SD.5024.1.2024

Pursuant to § 9, paragraphs 9 and 10 of the Regulations of the Doctoral School of Częstochowa University of Technology, approved by RESOLUTION No. 194/2022/2023 of the Senate of Częstochowa University of Technology of May 24, 2024, I hereby appoint committees to conduct the mid-term evaluation of second-year doctoral students of the Doctoral School of Częstochowa University of Technology in the following disciplines:

Management and Quality Sciences
Head of the Discipline of Management and Quality Sciences – Chairperson;
Dr. DSc, Eng. Anna Lemańska-Majdzik, Prof. CUT; Dr. DSc,
Eng. Beata Zatwarnicka-Madura, Prof. Rzeszów University of Technology

Automation, Electronics, Electrical Engineering, and Space Technologies:
Head of the Scientific Discipline: Automation, Electronics, Electrical Engineering, and Space Technologies – Chairperson;
PhD, DSc, Eng Wojciech Pluta, Prof. CUT;
PhD, DSc, Eng Łukasz Kolimas, Prof. PW, Warsaw University of Technology

Mechanical Engineering
Head of the Scientific Discipline: Mechanical Engineering – Chairperson;
PhD, DSc, Eng Maciej Marek, Prof. CUT;
Prof. PhD, DSc, Eng Damian Słota, Silesian University of Technology;

Environmental Engineering, Mining, and Energy
Head of the Scientific Discipline: Environmental Engineering, Mining, and Energy – Chairperson;
PhD, DSc, Eng Iwona Zawieja, Prof. CUT;
PhD, DSc, Eng Ewa Łobos-Moysa, Prof. PŚl, Silesian University of Technology;

Materials Science
Head of the Materials Science discipline – Chairperson;
Prof. Sebastian Mróz, PhD, DSc, Eng;
Dr. Magdalena Jabłońska, PhD, DSc, Eng, prof., Silesian University of Technology;

Technical Information Technology and Telecommunications
Head of the Technical Information Technology and Telecommunications discipline – Chairperson;
Dr. Łukasz Szustak, PhD, DSc, Eng, prof., CUT;
Dr. Adam Niewiadomski, PhD, DSc, Eng, prof., Lodz University of Technology;

Planned evaluation date – October 2024.

Head of SD

Częstochowa, June 10, 2025

RN-SD.5024.1.2025

Pursuant to § 9, paragraphs 9 and 10 of the Regulations of the Doctoral School of Częstochowa University of Technology, approved by RESOLUTION No. 253/2023/2024 of the Senate of Częstochowa University of Technology of March 20, 2024, I hereby appoint committees to conduct the mid-term evaluation of second-year doctoral students of the Doctoral School of Częstochowa University of Technology in the following scientific disciplines:

Automation, Electronics, Electrical Engineering, and Space Technologies:
Dr. DSc, Eng. Tomasz Szczegielniak, Prof. CUT – Chairman;
Dr. DSc, Eng. Wojciech Pluta, Prof. CUT;
Dr. DSc, Eng. Dorota Stachowiak, Poznań University of Technology;

Technical Information Technology and Telecommunications
Dr. DSc, Eng. Adam Kulawik, prof. CUT – chairman;
prof. Robert Nowicki, PhD, DSc, Eng;
prof. Marcin Woźniak, PhD, DSc, Eng, Silesian University of Technology;

Materials Engineering
dr. DSc, Eng, Rafał Prusak, prof. CUT – chairman;
dr. DSc, Eng, Katarzyna Błoch, prof. CUT;
dr. DSc, Eng, Magdalena Jabłońska, Łukasiewicz Research Network;

Mechanical Engineering
dr. DSc, Eng, Janusz Szmidla, prof. CUT – chairman;
dr. DSc, Eng, Maciej Marek, prof. CUT;
dr. DSc, Eng, Małgorzata Szymiczek, Silesian University of Technology;

Environmental, Mining, and Energy Engineering – Committee I
dr. DSc, Eng, Paweł Mirek, prof. CUT – chairman;
prof. Maria Włodarczyk-Makuła;
Prof. Mariusz Dudziak, PhD, DSc, Eng, Silesian University of Technology;

Environmental Engineering, Mining, and Energy – Committee II
PhD, DSc, Eng, Paweł Mirek, Prof. CUT – Chairperson;
Prof. Maria Włodarczyk-Makuła, PhD, DSc, Eng, Silesian University of Technology;
Prof. Janusz Kotowicz, PhD, DSc, Eng, Silesian University of Technology;

Management and Quality Sciences
PhD, DSc, Eng, Agata Mesjasz-Lech, Prof. CUT – Chairperson;
PhD, DSc, Eng, Manuela Ingaldi, Prof. CUT;
Prof. Radosław Wolniak, PhD, DSc, Eng, Silesian University of Technology

Planned evaluation date – October 2025.

Head of SD

POLI TECHNIKA Politechnika Częstochowska

Częstochowa, dnia 05 grudnia 2025 roku

PEŁNOMOCNICTWO NR 301/2025

Niniejszym jako Rektor Politechniki Częstochowskiej, udzielam Panu **Prof. dr hab. inż. Witoldowi Elsnerowi** pełniącemu w Politechnice Częstochowskiej funkcję Prorektora ds. nauki, pełnomocnictwa do podpisywania i składania oświadczeń woli w imieniu Politechniki Częstochowskiej, dotyczących ewaluacji jakości kształcenia Szkoły Doktorskiej PCz.

Przedmiotowe pełnomocnictwo zostaje udzielone na czas określony **od 05 grudnia 2025 roku do 31 sierpnia 2028 roku** i nie obejmuje możliwości udzielania dalszych pełnomocnictw.

Pełnomocnik zobowiązany jest do zwrotu niniejszego pełnomocnictwa bezpośrednio po wygaśnięciu.

Niniejsze pełnomocnictwo jest jednocześnie upoważnieniem, o którym mowa w art. 53 ust. 2 ustawy z dnia 27 sierpnia 2009 r. o finansach publicznych (Dz.U.2024 poz. 1530 z późń. zm.).

REKTOR

Dr hab. inż. Marek Warzecha, prof. PCz

Przyjmuję niniejsze pełnomocnictwo i oświadczam, że przyjmuję odpowiedzialność związaną z wykonywaniem obowiązków wynikających z niniejszego pełnomocnictwa, w szczególności za powierzone mi środki publiczne.

Zobowiązuję się do przestrzegania podczas ich wydatkowania obowiązujących przepisów prawa, w szczególności przepisów ustawy o finansach publicznych, ustawy Prawo zamówień publicznych, Kodeksu pracy oraz ustawy Prawo o szkolnictwie wyższym i nauce, a także obowiązujących w Politechnice Częstochowskiej zasad gospodarki finansowej i regulacji wewnętrznych dotyczących udzielania zamówień publicznych, które nakładają obowiązek wydatkowania środków publicznych zgodnie z zasadą gospodarności, tj. w sposób celowy i oszczędny, prowadzący jednocześnie do uzyskiwania najlepszych efektów.

Równocześnie zobowiązuję się do uzyskania wymaganych zgód i kontrasygnat osób uprawnionych na wszelkich dyspozycjach środkami finansowymi przyznanymi mi do dyspozycji.

Politechnika Częstochowska
ul. Dąbrowskiego 69, 42-201 Częstochowa
tel. +48 34 325 04 98, e-mail: rektor@pcz.pl
www.pcz.pl

Jednocześnie oświadczam, że znane mi są przepisy o skutkach prawnych przekroczenia zakresu umocowania określonego niniejszym pełnomocnictwem.

10. GRU. 2025

Częstochowa, dnia .....

PROREKTOR ds. NAUKI

..... prof. dr hab. inż. Witold Elsner

podpis osoby
przyjmującej pełnomocnictwo

KEN

2023-2027

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