



.....  
(Doctoral School stamp)

Bydgoszcz, on .....

Reference number: ..... / .....

## CERTIFICATE OF COMPLETION OF EDUCATION AT THE DOCTORAL SCHOOL

It is certified that Ms./Mr.

.....  
born on 2023-02-02 in  
.....

in the period

**from 2023-02-02 to 2023-02-02**

was a Ph.D. student at the Doctoral School of the Bydgoszcz University of Science and Technology  
has completed an individual research plan in a scientific discipline

**discipline name**

has obtained all learning outcomes for qualifications at level 8 of the Polish Qualifications Framework and completed education by submitting a doctoral dissertation entitled:

**dissertation title**

obtaining the arithmetic average of grades in the courses covered by the study plan ... .

.....  
(stamp and signature of the Director of the Doctoral School)

Enclosed:

List of learning outcomes achieved for qualifications at the eighth level of the Polish Qualifications Framework regarding completed courses of the educational program.

Description of component code and category effect characteristics learning at the eighth level of the Polish Qualifications Framework	Names of courses in the education program covering the learning outcome
<p><b>P8S_WG</b> Scope and depth: completeness of the cognitive perspective and relationships</p>	<p>Research Methodology and Planning, Numerical Methods, Grant Kit, Contemporary Trends in the Development of the Discipline, Preparation of Scientific Papers and Presentations, Data Analysis and Presentation, Philosophy of Cognition, A Block of Discipline Elective Courses, Academic Entrepreneurship, Doctoral Seminar</p>
<p><b>P8S_WK</b> Context: conditions, effects</p>	<p>Grant Kit, Contemporary Trends in the Development of the Discipline, Philosophy of Cognition, Ethics in Science, Block of General Elective Courses, Block of Discipline Elective Courses, Academic Entrepreneurship</p>
<p><b>P8S_UW</b> The use of knowledge: solved problems and performed tasks</p>	<p>Research Methodology and Planning, Numerical Methods, Grant Kit, Contemporary Trends in the Development of the Discipline, Preparation of Scientific Articles and Presentations, Data Analysis and Presentation, Ethics in Science, General Elective Courses, Academic Entrepreneurship</p>
<p><b>P8S_UK</b> Communication: receiving and creating statements, disseminating knowledge in the scientific community, and using a foreign language.</p>	<p>Rhetoric, English in Science, Preparation of Scientific Articles and Presentations, A Block of Elective General Courses, Academic Entrepreneurship, Internship, Doctoral Seminar</p>
<p><b>P8S_UO</b> Organization of work: planning and teamwork</p>	<p>Grant Kit, A Block of General Elective Courses, Academic Entrepreneurship, Professional Training</p>
<p><b>P8S_UU</b> Learning: planning individual development and the development of others</p>	<p>Ethics in Science, A Block of General Elective Courses, Academic Entrepreneurship, Professional Training, Doctoral Seminar</p>
<p><b>P8S_KK</b> Evaluation: a critical approach</p>	<p>Methodology and Research Planning, Numerical Methods, Contemporary Trends in the Development of the Discipline, Preparation of Scientific Articles and Presentations, Data Analysis and Presentation, Philosophy of Cognition, Selection of Courses within the Discipline, Doctoral Seminar</p>
<p><b>P8S_KO</b> Responsibility: fulfilling social obligations and acting for the public interest</p>	<p>Grant Kit, Ethics in Science, Block of General Elective Courses, Academic Entrepreneurship</p>
<p><b>P8S_KR</b> Professional role: independence and development of ethos</p>	<p>Preparation of Scientific Articles and Presentations, Ethics in Science, A Block of General Elective Courses, Doctoral Seminar</p>