GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Professional practice, PG_00044610						
Field of study	Mathematics						
Date of commencement of studies	October 2025		Academic year of realisation of subject	2026/2027			
Education level	first-cycle studies		Subject group	Optional subject group			
Mode of study	Full-time studies		Mode of delivery	at the university			
Year of study	2		Language of instruction	Polish			
Semester of study	4		ECTS credits	6.0			
Learning profile	general academic profile		Assessment form	assessment			
Conducting unit	Department Of Differential Equations And Mathematical Applications -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor	mgr inż. Urszula Goławska					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	E-learning hours included: 0.0						
	Adresy na platformie eNauczanie:						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours	Self-study	SUM	
	Number of study hours	0		5.0	160.0	165	
Subject objectives	The aim of professional practice is first of all acquiring practical and complementary skills expanding knowledge gained by the student at the university. Internships enable the development of competences a professional student who is compatible with the chosen field of study and his specialty. The student meets practical issues related to work as well as general and domain knowledge. The student has the opportunity to establish professional contacts to help you navigate the modern market employments						

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_K03	The student respects the principles of work in group	[SK2] Assessment of progress of work [SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work
K6_U07	The student applies knowledge and skills acquis during studies to fulfill tasks commissioned at the place of holding practice. In a practical way combines knowledge from various fields	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
K6_K04	The student applies knowledge and skills acquis during studies to fulfill tasks commissioned at the place of holding practice. In a practical way combines knowledge from various fields	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work
K6_K01	Student is able to independently search and study literature available on the topic. IN in a comprehensible way problems for non-mathematicians	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work
K6_W01	Student is able to independently search and study literature available on the topic. IN in a comprehensible way problems for non-mathematicians	[SW1] Assessment of factual knowledge
K6_U12	The student applies knowledge and skills acquis during studies to fulfill tasks commissioned at the place of holding practice. In a practical way combines knowledge from various fields	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
K6_U10	The student applies knowledge and skills acquis during studies to fulfill tasks commissioned at the place of holding practice. In a practical way combines knowledge from various fields	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
K6_K02	The student applies knowledge and skills acquis during studies to fulfill tasks commissioned at the place of holding practice. In a practical way combines knowledge from various fields	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work

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<tr><td>Subject contents</td><td>Ddepending on the internship program in a given workplace. Getting to know the organizational structure of the institution where the professional practice takes place. Training BHP. Participation in the tasks of employees of the institution in at least three areas of activity from the following list:

For specialty students: Financial Mathematics and Matematyka Stosowana

1. Mathematical modeling.2. Mathematical prediction.3. Optimization methods - modeling - tool selection - solutions. 4. Elements of financial consulting, trading in financial documents. 5. Analysis and processing of statistical data, statistical analysis of measurements. 6. Creating and maintaining databases. 7. Participation in research and development in various fields using mathematics. 8. Modeling of physical phenomena, industrial and technological processes. 9. Participation in the processes of designing, manufacturing, testing and documenting computer systems. 10. Works related to the development, creation, documentation and testing of software modules, applications, numerical algorithms. 11. Conducting work related to archiving and updating data. 12. Forecasting and mathematical modeling in biology and medicine, statistics, finances, on the currency market, 13. Educational activity and popularizing mathematics. For Students of the Data Analyst specialty: 1. Mathematical modeling. 2. Mathematical prediction. 3. Data processing. 4. Mathematical analysis of data. 5. Conducting work related to data archiving. 6. Works related to the presentation of applications and reports flowing out from data analysis. 7. Participation in designing, manufacturing, testing and documenting processes computer systems for the purposes of data analysis. 8. Participation in designing, manufacturing, testing and documenting processes numeric algorithms that solve problems Math. 9. Participation in planning and risk management processes. 10. Participation in research and development works in various fields using mathematics. 11. Educational activities and popularizing mathematics. For students of Biomathematics specialty: 1. Participation in the processes of designing, creating and documenting numerical algorithms solving mathematical problems. 2. Participation in the processes of testing numerical algorithms solving mathematical problems. 3. Participation in research and development works in various fields using mathematics. 4. Educational activities and popularizing mathematics and mathematical thinking. 5. Data processing, processing and visualization. 6. Mathematical analysis of data, in particular medical and biological data. 7. Conducting work related to storing and archiving data. 8. Works related to presentation of applications and reports resulting from data analysis. 9. Participation in design, production and documentation processes computer systems. 10. Participation in computer systems testing processes. egardless of the above skills and activities, during the internship the student must acquire the ability to work in a team, plan and implement individual and team tasks, effective communication and adherence to the values and principles of cooperation in the team, as well as acquire specific social competences Readiness to cultivate and disseminate models of proper behavior in the work environment and beyond, independent decision-making, critical evaluation of own activities, the teams he directs and organizations in which he participates, accepting responsibility for the effects of these activities, responsible performance of professional roles, including : - abiding by the rules of professional ethics and requiring it from others, - caring for the heritage and traditions of the profession. Readiness to critically evaluate your knowledge and recognize the importance of knowledge in solving cognitive and practical problems. Readiness to fulfill social obligations, co-organize activities for the social environment, initiate activities for the public interest, thinking and acting in an entrepreneurial way.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Knowledge and skills acquired during the studies</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Card practices</td><td>100.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
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<tr><td>Basic literature</td><td>Depending on the needs.

1. Regulations of student internista.

2. Framework program of professional practice for students of Mathematics</td></tr>
<tr><td>Supplementary literature</td><td>Depending on the needs.Company documentation: company regulations, procedures proceedings, documents, security rules, etc.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>Lack</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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