GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Team project, PG_00063397		
Field of study	Nanotechnology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
Education level	first-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	5	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Ceramics -> Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Sebastian Wachowski	
	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	30.0	0.0	30

E-learning hours included: 0.0

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	30	5.0	40.0	75

Subject objectives

The aim of the course is to prepare students to work in teams and develop skills necessary for effective management of engineering projects. Students learn to cooperate with each other and gain practical experience in planning, organizing, monitoring and controlling the course of the project.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U04] can plan and conduct experiments, critically analyze their results, draw conclusions and formulate opinions. Has laboratory experience.	During the implementation of a nanotechnology project, the student practically learns to use various research methods available in the INIIM building.	[SU1] Assessment of task fulfilment
[K6_K04] can cooperate and work in a team, adopting different roles.	Students can form a project team, allocate roles and responsibilities, and complete tasks within assigned duties.	[SK1] Assessment of group work skills
[K6_U11] can prepare dissertations, papers, oral presentations, in Polish and English, concerning detailed problems in physics and related fields and disciplines of science.	The student prepares a report of the project implementation and presents the project in the form of a talk.	[SU5] Assessment of ability to present the results of task
[K6_U07] can conduct preliminary economic analysis of proposed solutions and undertaken engineering activities within the scope of nanotechnology.	Student can estimate budget of a project in nanotechnology	[SU1] Assessment of task fulfilment

<table>
<tr><td>Subject contents</td><td>Students will be divided into teams of 2-4 people. They will choose the project they will implement. Project topics will be proposed in advance by academic teachers. The student team may also, in consultation with the lecturer and/or another academic teacher, propose a topic for implementation.Each team, under the supervision of its supervisor, will implement the project:Initial analysis: information collection, risk assessmentProject planning:Development of a schedule: project stages and implementation deadlines.Analysis of materials and resources necessary to implement the project.Project implementation: team meetings, carrying out project tasks according to the schedule, analysis and verification of results.Project completion: delivery of results in the form of a report; summary of the project; conclusions; presenting results to members of other teams.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Basic understaning of typical methods used in nanotechnology: XRD, SEM, TG, FTIR.</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>participation in the team's work and final report</td><td>55.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Mainly scientific publications, literature depends on the project topic.</td></tr><tr><td>Supplementary literature</td><td>Mainly scientific publications, literature depends on the project topic.</td></tr><tr><td>eResources addresses</td><td>Basic
http://examplelink - On the eNauczanie platform</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Not applicable</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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