GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00070396		
Field of study	Nanotechnology		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marek Augustyniak	
	Teachers	dr inż. Marek Augustyniak	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	15.0	15

E-learning hours included: 0.0

eNauczanie source addresses:

Moodle ID: 4562 Otoczenie gospodarcze
https://enauczanie.pg.edu.pl/2025/course/view.php?id=4562

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	15	2.0	8.0	25

Subject objectives

The course is intended to make professional prospects of Nanotechnology more realistic in the eyes of students. The idea is to encourage participants to ask themselves basic questions about choosing a career path (academic or commercial) and to learn about the experiences of people who have chosen one of these paths, with particular emphasis on the specificity of work in engineering companies.

An important part of the subject is the discussion and joint reflection on current economic and social problems resulting from, among others, the globalization and commercialization of a growing number of sectors, as well as the IT/information revolution, symbolized by the universality of electronic and "intelligent" information sources, with a simultaneous decrease in the role of paper-based, durable sources.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment	The student is able to apply knowledge from the humanities or social sciences or economics or law to solve problems in the social environment.	[SU3] Assessment of ability to use knowledge gained from the subject
[K6_W71] has general knowledge in humanistic, social, economic or legal sciences	The student acquires general knowledge in the field of humanities or social sciences or economics or law	[SW1] Assessment of factual knowledge
[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student gains awareness of the need to use knowledge from the humanities or social or economic or legal sciences in functioning in a social environment	[SK2] Assessment of progress of work

<table>
<tr><td>Subject contents</td><td>Course content – seminar

The series of meetings with students is a combination of various ways of transmitting experiences, such as:- transfer by the instructors of experiences and reflections taken from their own professional activity (academic and commercial)- transfer of graduates' experiences, including: in the form of MP3 or MP4 recordings with people who have completed the field of Materials Engineering- inviting people from the economic environment to a live meeting (at least online)- if possible: organizing a visit to the selected company- a simulation game in which students confront difficult (ethically, technically) situations taken from the real life of companies</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></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>Class engagement</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Sukces firmy, aut. Iwona Majewska-Opiełka
Steve Jobs - biografia, aut. Walter Isaacson
Dlaczego piątkowi uczniowie pracują dla trójkowych, aut. Robert Kiyosaki</td></tr><tr><td>Supplementary literature</td><td>None</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>@ Presentation "Alice on the other side of the diploma, or how to prepare for the profession of an engineer"@ Results of the survey "upsides and downsides of a scientist's life"@ Meeting with an engineer, a specialist in finite element modeling@ Simulation game - "Ethics in the company"@ Films from the "Meeting with the Graduate" series@ Discussions concerning topics such as globalisation (including that of medical industry, and the "research production" industry), economic patriotism, fair distribution of profits</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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