GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00052089		
Field of study	Nanotechnology		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2023/2024
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	4	Language of instruction	Polish
Semester of study	7	ECTS credits	11.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Agnieszka Witkowska	
	Teachers	dr inż. Marek Augustyniak dr inż. Marcin Wekwejt dr hab. inż. Agnieszka Witkowska dr hab. inż. Natalia Wójcik dr inż. Sebastian Wachowski dr hab. inż. Jacek Ryl dr inż. Szymon Winczewski dr inż. Magdalena Jażdżewska dr hab. inż. Beata Bochentyn dr hab. inż. Ryszard Barczyński dr inż. Tadeusz Miruszewski dr inż. Marta Prześniak-Welenc dr inż. Michał Bartmański prof. dr hab. inż. Maria Gazda	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	60.0	0.0	60
	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	60	15.0	200.0	275

Subject objectives	The aim of the subject is to prepare an engineering diploma thesis. The work can be experimental, theoretical and computational (numerical simulations). In all cases, the student must present study results to the supervisor and submit a written form of a diploma thesis to the Gdańsk Tech electronic system.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_U09	The student is able to design and synthesize using various techniques, mainly the technique to which the project is dedicated, nanostructured materials or materials containing nanosized structures.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
K6_U02	The student knows various scientific methods (analytical, numerical, simulation and experimental – appropriate for the project being implemented) and is able to use them to solve simple scientific and technical problems, especially in the field of nanotechnology and the implemented diploma project.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
K6_K05	The student has the ability to present the effects of his/her work in a clear and universally understandable way, prepare an oral presentation and conduct discussions regarding the issues studied and analyzed in the diploma project.	[SK4] Assessment of communication skills, including language correctness
K6_U07	The student recognizes the application and economic aspects related to the implemented engineering project. Is able to perform a preliminary economic analysis related to the engineering activities in the field of nanotechnology and the implementation of the proposed solutions.	[SU2] Assessment of ability to analyse information
K6_U04	The student has the ability to plan and perform experiments (in physical, chemical and computer laboratories depending on the nature of the diploma project), to analyse research results, draw conclusions and conduct a critical discussion.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment

Subject contents

Project topics and scope of tasks are determined by the supervisor. Information on the topics of work for a given academic year can be found in the moja.pg system

Prerequisites and co-requisites

Completed courses determined by the supervisor, in line with the field of study.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
The rating is in line with the evaluation form	50.0%	100.0%

Recommended reading

Basic literature	Literature determined by supervisor.
Supplementary literature	Literature determined by supervisor.
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

The issues are provided by the supervisor in accordance with the topic and scope of the project.

Work placement

Not applicable