GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00039722		
Field of study	Materials Engineering, Materials Engineering, Materials Engineering, Materials Engineering		
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	3.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Michał Strankowski	
	Teachers	dr hab. inż. Michał Strankowski dr hab. inż. Łukasz Piszczyk	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	30.0	0.0	0.0	60

E-learning hours included: 0.0

Address on the e-learning platform: https://teams.microsoft.com/l/meetup-join/19%3aVm_y9XecZzw92HJgRcVPPXi4kA34OwLMhFfP4Jji1Xs1%40thread.tacv2/1629112932155?context=%7b%22Tid%22%3a%2286760356-0022-486f-b793-a2d470bba5a5%22%2c%22Oid%22%3a%22a341d16c-97c6-4f63-a523-16e23d4c5ce5%22%7d

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	2.0	13.0	75

Subject objectives

The aim of the course is to present students with issues related to the polymer structure and its influence on the macroscopic properties of polymer materials.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_U06	Students will skillfully interpret and formulate conclusions related to plastic structure problems.	[SU2] Assessment of ability to analyse information
K6_K01	Students will demonstrate knowledge of polymer issues and be able to perform tasks related to plastics problems.	[SK5] Assessment of ability to solve problems that arise in practice
K6_U02	Students will demonstrate the ability to operate equipment used in the production and analysis of plastics.	[SU3] Assessment of ability to use knowledge gained from the subject
K6_W07	The student has skills related to the analysis of polymeric materials.	[SW1] Assessment of factual knowledge

Subject contents

Basics characteristics and nomenclature of polymer macromolecules.

Types of polymer structures.

Structure analysis based on the properties of selected material groups.

Prerequisites and co-requisites

Basic knowledge of the production and processing of polymeric materials.

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Passing the laboratory tests	50.0%	50.0%
	Passing the lecture tests	50.0%	50.0%
Recommended reading	Basic literature	Alfred Rudin Phillip Choi, Elements of Polymer Science & Engineering, Third Edition, 2013. First Edition. Edited by Kantesh Balani, Vivek Verma, Arvind Agarwal, Roger Narayan. A Materials Science and Engineering Perspective, 2015 The American Ceramic Society.	
	Supplementary literature	brak	
	eResources addresses	Adresy na platformie eNauczanie: Struktura i właściwości materiałów polimerowych - Moodle ID: 31342 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31342	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		