GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Projects and teams management, PG_00064789		
Field of study	Mechatronics		
Date of commencement of studies	February 2027	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	Obligatory subject group in the field of study Humanistic-social 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	1	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Fluid-Flow Machinery -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marzena Banaszek	
	Teachers	dr inż. Marzena Banaszek	

Lesson types

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

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	15	2.0	8.0	25

Subject objectives

The subject aims to: understand the nature and types of projects; develop skills in managing individual stages of a project, i.e. from project initiation through planning and execution to project control and evaluation, develop skills in coordinating work in a project team, project budgeting and risk management.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K13] is ready for responsible performance of proffesional roles, considering ever-changing need of the society, including self developement and supporting and fullfiling work ethics	The student is aware of acting in a professional manner and observing the principles of professional ethics. The student critically evaluates the knowledge he/she has and is able to select appropriate methods of teaching himself/herself and others, is ready to supplement knowledge throughout life using various sources of knowledge.	[SK1] Assessment of group work skills [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice
[K7_W13] explains the main principles of individual and teamwork organization, including various forms of entrepreneurship utilizing knowledge from the field of engineering and technical sciences and disciplines relevant to the course of study	The student uses various methods of solving design problems. Is able to assess their own and others' competences in order to create teams to achieve design goals and tasks. Is able to select appropriate methods of implementing design work, is able to allocate resources to tasks taking into account the project schedule, supports group work in the implementation of projects, is able to demonstrate entrepreneurship and innovation in the implementation of tasks.	[SW3] Assessment of knowledge contained in written work and projects
[K7_K12] is ready for fullfiling social commitement and initation of actions for public interest including entrepreneurial thinking and acting	The student is aware of the importance of knowledge in solving cognitive and practical problems. Is ready to fulfill social obligations, inspire and organize activities for the benefit of the social environment. The student is aware of the importance of initiating activities for the public interest, thinking and acting in an entrepreneurial manner, responsible performance of professional roles taking into account changing social needs, including developing the achievements and maintaining the ethos of the profession, observing and developing the principles of professional ethics and acting to comply with these principles.	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice

Subject contents

Course content – project

Development of the project concept (project idea and objective, project nature, time frame). Identification of risk and risk management in projects (analysis of opportunities and threats for the project). Creation of a project team. Delegation of tasks in the project (identification of tasks in the project, division of responsibilities, rights and competences of project employees). Communication in the project team (principles and styles of management, motivating and inspiring project employees, conflicts in project teams, techniques for responding to conflicts). Project documentation. Project implementation schedule. Creation of the project budget and determination of its financing sources (determination of direct and indirect project costs, internal and external sources of project financing). Monitoring and control of project implementation.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Development of the project charter and implementation of the project	50.0%	100.0%

Recommended reading

Basic literature

1. Trocki M.,(red.): Nowoczesne zarządzanie projektami, PWE, Warszawa 2012
2. Redlarski K.: Podstawy metodyki zarządzania projektami w ujęciu klasycznym, Wydawnictwo Politechniki Gdańskiej, Gdańsk 2016
3. Dostatni E., Roszkowski H., Wirkus M.: Zarządzanie projektami, Zarządzanie i Inżynieria Produkcji, PWE, Warszawa 2014
4. Pawlak M.: Zarządzanie projektami, Wydawnictwo Naukowe PWN, Warszawa 2007
5. Sadkowska J., Chmielewski M.: Zarządzanie projektami. Wybrane aspekty, Wydawnictwo Uniwersytetu Gdańskiego, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2014

	Supplementary literature	1. A guide to the project management body of knowledge, PMBOK Guide, Newtown Square: Project Management Institute, cop. 2013 2. Samuel J. Mantel, Jr. [et al.].: Project Management in Practice, 4th ed., Hoboken, NJ: Wiley, 2011 3. Kerzner H.: Project Management a Systems Approach, To Pleanning, Scheduling and Controlling 4. Berkun S.: Sztuka zarządzania projektami, Helion, 2006 5. Pritchard Carl L.: Zarządzanie ryzykiem w projektach, WIG - PRESS Warszawa 2002
	eResources addresses	
Example issues/ example questions/ tasks being completed	Development of a project charter and design of a toy/teaching aid showing the conversion of solar energy into another form of energy.	
Practical activites within the subject	Not applicable	

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