GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Project management, PG_00069271		
Field of study	Chemical Technology, Chemistry, Biotechnology, Engineering and Technologies of Energy Carriers, Corrosion , Green Technologies, InfoBioChem		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2026/2027
Education level	second-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	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Polymer Technology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marcin Włoch	
	Teachers	dr inż. Ewa Głowińska	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	15.0	15.0	0.0	45

E-learning hours included: 0.0

Additional information:

Forms of Classes and Teaching Methods:

- **Individual Work** (e.g., software usage, preparing project documentation)
- **Group Work** (e.g., role distribution, information gathering, task execution and monitoring, presentation of the findings, retrospective of group work)
- **Receiving and Providing Feedback**
- **Case Study Analysis, Discussion**

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	45	5.0	25.0	75

Subject objectives

The aim of the course is to introduce topics related to project management, including research and research & development projects.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	is able to use selected methods, techniques and tools typical of classic and agile project management methodologies	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
[K7_U101] is able to formulate complex research problems and adopts appropriate methods, obtaining innovative solutions, cooperating with other people, both as a leader and a team member	is able to formulate a research problem to be solved within the project, including the goal, scope, schedule and resources necessary to implement the project; the student is able to select appropriate methods and techniques for implementing and managing individual stages of the project	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	is familiar with traditional and agile project management methodologies, understands their similarities and differences, and has knowledge of the individual stages of the project life cycle.	[SW1] Assessment of factual knowledge
[K7_K03] can interact and work in a group, taking on a variety of roles	understands the importance of teamwork and the role of individual project team members, and demonstrates awareness of the importance of constructive communication for effective project implementation.	[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills
[K7_W06] integrates knowledge from different disciplines, principles of intellectual property protection and patent law, relevant for appropriate interpretation and application in scientific, sustainable economic activities	knows the principles of planning and implementing projects in an interdisciplinary manner, including the basics of intellectual property protection, and understands the essence of the social, economic, and environmental aspects of implemented projects in the context of sustainable development principles.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge

Subject contents

Course content – lecture

- **Fundamentals of Project Management:** the concept of a project and project management, the project life cycle, project teams, project roles and their characteristics, communication and conflicts, quality and risk management, elements of budgeting and financing.
- **Types of projects**, with particular emphasis on research and research & development (R&D) projects.
- **Project life cycle** (initiation, planning, execution, monitoring, and closure) **and project life cycle management.**
- **Budgeting and financing of projects**
- **Traditional methodologies:** PMBOK and PRINCE2.
- **Agile methodologies:** SCRUM, Kanban, Lean. Agile product development.
- **Project management as a desirable skill in the job market, certification.**

Course content – laboratory

- Project Charter
- Project Schedule
- Project Stakeholder Management
- Project Risk Management
- Project Quality Management

Course content – project

- Product Backlog. Sprint Backlog. Work Burndown Chart
- Project Communication. Providing Feedback. Sprint Retrospective.
- Project Costs - Planning and Control
- Agile Product Development: Lean and Kanban Philosophy

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Lecture: partial tests (online)	60.0%	40.0%
Laboratory: practical tasks	60.0%	30.0%
Project: Practical tasks	60.0%	30.0%

Recommended reading

Basic literature	1. Zarządzanie projektem. Podręcznik przyszłego PMa, Praca zbiorowa, Wyd. 2, CeDeWu, Warszawa, 2022 2. P. Cabała, S. Wawak (red.): Zarządzanie projektami. Zarys problematyki, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2022
Supplementary literature	Other literature sources describing a practical approach to project management.
eResources addresses	

Example issues/ example questions/ tasks being completed	**Sample Topics:** classical and Agile methodologies in project management, sprints in SCRUM, research and Research & development projects, phases of the project life cycle, identifying, analyzing, and planning responses to risks in a project **Examples of Practical Tasks:**Formulating milestones, creating a project schedule in MS Project, roles and course of sprints in SCRUM, methodology best suited for team-based research projects carried out by students
Practical activites within the subject	Not applicable

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