GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	PROJECT MANAGEMENT, PG_00061330		
Field of study	Engineering Management		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study 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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Krzysztof Redlarski	
	Teachers	dr inż. Krzysztof Redlarski	

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

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	7.0	58.0	125

Subject objectives

Plans the design process, taking into account all factors affecting the achievement of planned goals in a timely and financially effective manner

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W05] integrates data from many sources to analyze complex problems of modern management	integrates data and information from many sources, selecting appropriate methods, obtaining the desired solution	[SW1] Assessment of factual knowledge
[K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques	designs complex management processes, using management methods to select resources, meet deadlines, risk assessment and cost analysis, carrying out a critical assessment of each stage	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

LECTURE:
Basic issues related to project management
Classic, agile and adaptive project management methodologies
Project planning principles
Areas and processes of project management
Project integration management
Project scope management
Project resource management
Time management in the project
Project cost management
Methods of cost and project duration analysis
Quality management in the project
Project communication management
Project risk management
Project order management. Project portfolio management
LABORATORY
Using the MS Project software to implement your own project
Designing a network of activities in the form of a network diagram
Designing a flowchart with a task list, parent and child tasks
Assignment of resources to tasks according to the method of constant work, constant time, constant number of resources
Resource balancing and elimination of overloads
Overtime as a rescue resource
Shared resource pool
Managing multiple projects
Project cost analysis
Risk analysis of meeting the project deadline
Reporting (printouts)

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Project	100.0%	60.0%
Written exam	60.0%	40.0%

Recommended reading

Basic literature	1. Project Management Institute, Inc.: A Guide to the Project Management Body of Knowledge, (PMBOK® Guide) 2. Redlarski, Krzysztof. Podstawy metodyki zarządzania projektami w ujęciu klasycznym. Wydawnictwo Politechniki Gdańskiej, 2016 3. Trocki M.: Zarządzanie projektami, PWN Warszawa 2003r 4. Wilczewski S.: MS Project 2010 i MS Project Server 2010. Helion 2011
Supplementary literature	1. Pritchard Carl L., Zarządzanie ryzykiem w projektach, WIG - PRESS Warszawa 2002 2. Kerzner H.: Project Management a Systems Approach, To Pleanning, Scheduling and Controlling 3. Chatfield C., Johnson T., MicrosoftOffice Project 2010 krok po kroku, RM Warszawa 2011
eResources addresses	Adresy na platformie eNauczanie: Zarządzanie projektami (2023) - Moodle ID: 33827 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33827

Example issues/ example questions/ tasks being completed

1. Point out the difference occurring between the terms project and process
2. List the main phases of project execution
3. List the known areas of project management (e.g. according to PMBOK Guide)
4. What are the characteristics of classical project management methodologies
5. What are the characteristics of agile methodologies of project management
6. List and describe the three main project constraints
7. What is a schedule and how it can be defined in a project
8. What is a budget and how it can be defined in a project
9. What is the scope of a project and how it can be determined
10. What is the critical path of a project and what properties it has
11. What is a Gantt chart and what properties it has
12. What is a responsibility matrix and why it is created in a project
13. What is quality in a project and how to ensure it
14. Discuss the earned value method (Earned Value)
15. Discuss the Program Evaluation and Review Technique (PERT) method
16. What is resource balancing in a project
17. List ways to eliminate over-allocation in a project
18. What are costs in a project and how we can optimize them
19. What is work in a project and how we can determine it
20. What is change management in a project
21. What are the inputs and outputs of the project execution management process
22. What is a cycle (Deming wheel)
23. What is risk in a project and what are its basic characteristics
24. Discuss possible reactions (responses) to risks
25. Activities performed in the quantitative and qualitative analysis of risks
26. Dimensions (types) of communication methods
27. Number of communication channels - dependence on the complexity of the project
28. Communication model
29. Stakeholder assessment matrix and actions for each type of stakeholders
30. Activities performed during project/phase closure.

Work placement

Not applicable

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