Kielce University of Technology

FACULTY OF MANAGEMENT AND COMPUTER MODELLING

COURSE SPECIFICATION

Course code	full-time studies	**Z-ZB-E-502a**	
	part-time studies	**-**	
Course title in English	**Project Management**		
Course title in Polish	**Zarządzanie projektami**		
Valid from academic year	**2025/2026**		

PLACEMENT IN THE TEACHING PROGRAM

Programme of study	**BUSINESS MANAGAMENT**
Level of education	**1st degree**
Studies profile	**academic**
Form and mode of study	**full-time programme**
Scope	**all**
Academic unit responsible for the course	**Department of Production Engineering**
Course coordinator	**dr hab. inż. Magdalena Rybaczewska-Błażejowska**
Approved by	**dr hab. inż. Dariusz Bojczuk, prof. uczelni**

GENERAL CHARACTERISTIC OF THE COURSE

Teaching block	**Directional subject**	
Course status	**Elective**	
Language of instruction	**English**	
Semester of delivery	full-time studies	**Semester V**
	part-time-studies	**-**
Prerequisites	**NO**	
Exam (YES/NO)	**NO**	
ECTS	**3**	

Method of conducting classes		lecture	classes	laboratory	project	other
Number of hours per semester	full-time	**15**			**30**	
	part-time					

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LEARNING OUTCOMES

Category	Outcome code	Course learning outcomes	Reference to the directional learning effect
Knowledge	W01	The student has knowledge in the field of project management, taking into account contemporary methodologies and tools belonging to the competencies of a manager, taking into account innovative activities.	Arial 10pkt., wycentrowanie
	W02	The student has knowledge of management in a market economy with consideration of the principles of economics using the synergy created by combining the knowledge of different areas of management.	
	W03	Has knowledge of IT and analytical tools in the design and coordination of processes found in business projects.	
Skills	U01	Able to prepare a project management plan based on acquired information and manage the project using appropriate ICT tools.	
	U02	Able to work individually and as part of a team; able to estimate the time needed to complete an assigned task.	
Social competences	K01	He is able to cooperate in the preparation of projects and appreciates the importance of the process of continuous learning and acquisition of specialized knowledge and skills as the basis for creative and entrepreneurial thinking.	

COURSE CONTENT

Method of conducting classes	Course content
lecture	Projects – their essence and key characteristics. Types of projects – investment (hard) and organisational (soft) projects, and their life cycle. Objectives of projects, tasks in projects, triangle of constraints in projects. Organisational aspects of project management. Organizational structures in the implementation of projects. Project management methods. Network techniques – deterministic and stochastic. Project scheduling – Gantt chart. Resource management. Financial management in a project. Cost estimation and calculation methods. Risk management – nature and causes of risks. Risk identification and assessment, risk matrix. Risk monitoring and control. Project implementation and progress management. Project management methodologies – classical (hard) methodologies and agile (soft) methodologies.
project	Discussion of projects' topics. Presentation of the scope of the projects. Presentation of exemplary projects. Discussion and agreements on the scope of the projects. Introduction to MS Open Project programme. Creating a work breakdown structure (WBS) Dividing the projects into activities and tasks. Developing a project schedule, including a Gantt chart. Developing a resource breakdown structure (RBS). Identifying, classifying, and assigning resources to tasks. Developing an organisational structure and a communication plan for the implementation of the project. Responsibility matrix. Compiling a risk register and conducting risk assessment. Risk probability and impact analysis matrix. Defining risk management strategies. Presentation of the projects by teams, discussion and evaluation. Summary of the work of the whole group.

METHODS FOR VERIFYING LEARNING OUTCOMES

Outcome code	Learning outcomes verification methods					
	Oral examination	Written examination	Test	Project	Report	Other
W01			X	X		
W02			X	X		
W03			X	X		
U01				X		X
U02				X		X
K01				X		X

FORM AND CONDITIONS OF ASSESSMENT

Form of classes	Assessment type	Assessment Criteria
lecture	Credit with grade	Obtaining a minimum of 50% of the total score on the final test or obtaining a minimum grade of 3.0 for the presentation of a paper on a given topic. Active participation in classes.
project	Credit with grade	Active participation in classes, timely submission of the project and obtaining a minimum grade of 3.0 for the project.

STUDENT WORKLOAD

No.	Activity type	Student workload					Unit
		full-time					
1.	Scheduled contact hours	W	C	L	P	S	h
		15		30			
2.	Other (consultations, exams)	2		2			h
3.	**Total number of contact hours**	49					h
4.	**Number of ECTS credits for contact hours**	2,0					ECTS
5.	**Number of hours of independent student work**	26					h
6.	**Number of ECTS points that a student obtains through independent work**	1,0					ECTS
7.	**Workload related to practical classes**	50					h
8.	**Number of ECTS credit points which a student receives for practical classes**	2,0					ECTS
9.	**Total number of hours of a student's work**	75					
10.	**ECTS credits for the course** *1 1 ECTS credit =25 student learning hours*	3					ECTS

W - LECTURE   C – CLASSES   L – LABORATORY   P- PROJECT   S – SEMINAR

READING LIST

1. Baguley P. (2009), *Project management*, Hodder & Stoughton, London.
2. Heagney J. (2022), *Fundamentals of Project Management*, 6th Edition, HarperCollins Leadership, the United States of America.
3. Kerzner H. (2022), Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 13th Edition, Wiley, New York.