COURSE DESCRIPTION CARD - SYLLABUS

Course name
Project Management

Course

Field of study
Engineering Management
Area of study (specialization)

Level of study
First-cycle studies
Form of study
full-time

Year/Semester
2/4
Profile of study
general academic
Course offered in
English
Requirements
compulsory

Number of hours

Lecture
15
Laboratory classes

Other (e.g. online)

Tutorials
15
Projects/seminars
15

Number of credit points

4

Lecturers

Responsible for the course/lecturer:
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Responsible for the course/lecturer:

Prerequisites

Basic of management, microeconomics and mathematics.

Course objective

Preparation for the role of project manager

Course-related learning outcomes

Knowledge

The student defines the stages of the project lifecycle and indicates tools used for project management [P6S_WG_13].

The student explains the principles of a project team's functioning and defines the entrepreneurial roles of its members and stakeholders, with special emphasis on the specifics of the communication process [P6S_WK_04].

The student describes and interprets advanced concepts of organizational management, applying them to analyze project management issues [P6S_WG_01].

The student identifies and utilizes methods and tools for collecting, processing, selecting, and distributing information in the context of project management [P6S_WG_08].

The student describes the lifecycle of socio-technical systems, particularly the phases and stages of a typical project course [P6S_WG_13].

The student explains the general principles of creating and developing forms of entrepreneurship, integrating technical, economic, and managerial knowledge in the context of project management [P6S_WK_04].

Skills

The student applies standard methods and tools for forecasting processes and phenomena in the context of project management, including setting requirements and feasibility analysis [P6S_UW_02].

The student analyzes and proposes solutions to managerial problems in project management, including risk analysis and budgeting [P6S_UW_04].

The student conducts preliminary economic analysis of projects, considering resource and cost planning [P6S_UW_12].

The student takes responsibility for their own work and jointly implemented tasks in a project, acting in accordance with teamwork principles [P6S_UO_01].

The student plans and organizes a project, considering project management support solutions [P6S_UW_02].

The student performs analysis (including economic, strategic) and assesses project management methods [P6S_UW_04].

The student builds project teams and solves organizational problems to efficiently implement a project [P6S_UW_12].

The student manages a project throughout its lifecycle, indicating the specifics of tasks and roles of team members [P6S_UO_01].

Social competences

The student contributes substantively to the preparation of projects, considering legal, economic, and organizational aspects, based on practical problems of a project manager [P6S_KO_01].

The student verifies project activities in the context of changes in the environment [P6S_KO_01].

The student engages in the implementation of tasks in a project team ethically [P6S_KR_01].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative assessment:

based on attendance and activity during classes, results of cognitive tasks solved, and participation in discussions

Summative rating:

- result of written test (lecture)

- independent performance of the indicated cognitive task (project), its presentation in the group forum

- summary of partial results from exercises.

Programme content

1. The place and role of projects in management,

2. Types of projects,

3. A typical project run (initiating, setting requirements, defining goals and identifying conditions, feasibility analysis, risk analysis, task structuring, resource planning and workflow planning, budgeting, process control, project closure).

4. Organization of project team

5. IT support

6. Practical problems of the project manager

Teaching methods

Problem-based lecture, study of literature, project - solving cognitive tasks with IT support, auditorium exercises.

Bibliography

Basic

A guide to the Project Management Body of Knowledge (PMBOK guide) Project Management Institute 2018

Meredith Jack R. , Mantel Samuel J. Jr. , Shafer Scott M., Project Management, 10th Edition, Wiley December 2017

Additional

Hobbs B., Besner C., Projects with internal vs. external customers: An empirical investigation of variation in practice, in: International Journal of Project Management, Volume 34, Issue 4, May 2016, Pages 675-687

Laursen M., Svejvig P., Taking stock of project value creation: A structured literature review with future directions for research and practice, in: International Journal of Project Management, Volume 34, Issue 4, May 2016, Pages 736-747

Svejvig P. Andersen P., Rethinking project management: A structured literature review with a critical look at the brave new world, in: International Journal of Project Management, Volume 33, Issue 2, February 2015, Pages 278-290

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	50	2,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) [1]	50	2,0

[1] delete or add other activities as appropriate