



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Project management

Course

Field of study

Product Lifecycle Engineering

Area of study (specialization)

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Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

English

Requirements

compulsory

Number of hours

Lecture

10

Laboratory classes

20

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

Dr. Magdalena DIERING

Responsible for the course/lecturer:

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Faculty of Mechanical Engineering

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Prerequisites

The student should have knowledge in the field of management and operation of the production company. Student has IT skills - knowledge of MS Office and the basics of AutoCAD. Social competences - the student understands the need to learn and acquire new knowledge; can work in a team; recognizes the possibilities of continuous improvement in various areas of life, including the activities of organizations, with particular emphasis on manufacturing enterprises.

Course objective

To familiarize the student with project management methodologies and selected software supporting project management.



Course-related learning outcomes

Knowledge

The student knows the standards of project management; knows different approaches to project management and is able to characterize them. The student knows what IT tools can be used to support project management.

Skills

The student knows how to develop a project plan, formulate goals and tasks, set the rules for communication of the project team; knows how to draw up a project report.

The student knows how to apply selected IT tools / programs supporting project management.

Social competences

The student has the competence to work in a project team.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formulation assessment: Evaluation based on assessment of current progress of tasks

Summary assessment: Working in a team; developing a project application; performing a set of tasks to check knowledge of IT tools/software for project management. Credit and grade at the end of the semester.

Programme content

Course topics:

1. Project definition. Introduction to project management.
2. Introduction to Design Thinking.
3. Business Model Canvas - BMC.
4. Project management stages: project start, project planning, milestones, project budget, project implementation, project monitoring, project control, project closure.
5. Methodologies and approaches in project management, including PRINCE2, AgilePM, PMBOK Guide.
6. Project manager's competences. Communication in the project. Projects portfolio.
7. Selected IT tools supporting project planning and implementation. Project management in Project Professional, Google Project Sheet; Learning how to use Project Professional.
8. 3DEXPERIENCE platform in engineering project management; Learning how to use 3DEXPERIENCE.
9. Science-industry cooperation - R&D&I projects. Scope of project application.

Tasks to do:



Development of selected elements of project documentation (including project card, project schedule, project budget); R&D&I project proposal.

Teaching methods

Laboratory exercises: performing problem tasks, team working; executing commands / tasks in selected project management programs; performing tasks after discussing the topic and scope of the task using a multimedia presentation illustrated with examples given on the board.

Bibliography

Basic

1. Managing successful projects with PRINCE2, 2018.
2. Agile Project Management Handbook v2.0, 2010.
3. A Guide to the Project Management Body of Knowledge, PMBOK Guide, ed. 6, 2018.

Additional

1. Business Model Generation, Alexander Osterwalder, 2010.
2. Project Management, Dennis Lock, 2003.
3. Deadline, Tom DeMarco, 2002.
4. The Balanced Scorecard, Kaplan S., Norton David S., 2001.
5. Critical chain, Goldratt E.M., 2000.

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam) ¹	20	1,0

¹ delete or add other activities as appropriate