



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Project management [S2MiBM2>ZP]

Course

Field of study

Mechanical Engineering

Year/Semester

1/1

Area of study (specialization)

–

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

0

Number of credit points

1,00

Coordinators

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Lecturers

Prerequisites

The student should have knowledge in the field of management and operation of the production company. 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

The aim of the course is to familiarize the student with the theoretical and practical foundations of project management.

Course-related learning outcomes

Knowledge:

1. The student has knowledge about creating forms of individual entrepreneurship regarding project management.

Skills:

1. The student is able to manage projects and lead small teams of people.

Social competences:

The student is able to think and act in a creative and entrepreneurial way.

The student correctly identifies and resolves dilemmas related to the profession.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formulation assessment:

Evaluation based on answers to questions about the material discussed in the previous lectures.

Summary assessment:

Examination based on: a) a test consisting of 16 closed-ended questions (max. 16 points) and b) engagement during classes (max. 4 points). Grading: 0-10 points – grade 2.0 (fail), 11-12 – 3.0 (satisfactory), 13-14 – 3.5 (satisfactory plus), 15-16 – 4.0 (good), 17-18 – 4.5 (good plus), 19-20 – 5.0 (very good).

Test – at the end of the semester (date to be agreed with the group).

Programme content

Introduction to project management.

Project management stages.

Business Model Canvas - BMC.

Methodologies and approaches in project management.

Project manager's competences.

Science-industry cooperation - R&D&I projects.

Course topics

Lecture:

1. Project definition. Introduction to project management. Project management stages: project start, project planning, milestones, project budget, project implementation, project monitoring, project control, project closure.

2. Introduction to Design Thinking.

3. Business Model Canvas - BMC.

4. Methodologies and approaches in project management: PRINCE2, Agile.

5. Project manager's competences. Communication in the project.

6. Selected IT tools supporting project planning and implementation.

7. Science-industry cooperation - R&D&I projects. Scope of project application.

Teaching methods

Lecture: multimedia presentation illustrated with examples given on the board, discussion.

Bibliography

Basic:

1. Kompendium wiedzy o zarządzaniu projektami, A Guide to the Project Management Body of Knowledge, PMBOK Guide, ed. 6, 2018.

2. Zarządzanie projektami krok po kroku, Mariusz Kapusta, 2013.

Additional:

1. PRINCE2 - Skuteczne zarządzanie projektami, 2018.

2. Podstawy zarządzania projektami, Dennis Lock, 2003.

3. Zdążyć przed terminem: opowieść o zarządzaniu projektami, Tom DeMarco, 2002.

4. Kaplan S., Norton David S., Strategiczna karta wyników, 2001.

5. Goldratt E.M., Łańcuch krytyczny, 2000.

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50