

Project management and innovations - course description

General information	
Course name	Project management and innovations
Course ID	06.9-WM-ZiIP-ANG-D-05_20
Faculty	Faculty of Mechanical Engineering
Field of study	Management and Production Engineering
Education profile	academic
Level of studies	Second-cycle studies leading to MSc degree
Beginning semester	winter term 2023/2024

Course information	
Semester	1
ECTS credits to win	3
Course type	obligatory
Teaching language	english
Author of syllabus	<ul style="list-style-type: none">dr inż. Wojciech Babirecki

Classes forms					
The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Project	15	1	-	-	Credit with grade
Lecture	15	1	-	-	Credit with grade

Aim of the course

Acquisition of skills and competences in project management, in particular in innovative project management. Acquisition of knowledge on the nature, role and place of innovation in the processes of development. Understanding of the economic content of innovation and incentive programs for the growth of creativity. Understanding national and European pro-innovation infrastructure, programs and strategies.

Prerequisites

Microeconomics, Marketing Essentials

Scope

Content of lectures: Project management in a general approach. Schedule and budget of a project . Managing the project team. Directions of development of the concept of project management and management through projects. Innovations. The economic content of innovation. Innovation, creativity and competitiveness. Innovation processes in enterprises. Man and organization in the innovation process - management culture, virtual organizations.The policy and strategy of business development management in terms of products and services, processes, infrastructure, environment, etc. The role of information technology in innovation. Formation and funding for innovative projects. Regional innovation strategies. The activities of regional institutions in terms of stimulating innovation processes. EU programs for innovation. Innovation strategies of Polish companies - an analysis based on case studies.

Project: Regional innovation strategies. The activities of regional institutions in terms of stimulating innovation processes. EU programs for innovation. Innovation strategies of Polish companies - an analysis based on case studies.

Teaching methods

Conventional lecture.

Project – individual work, group work, based on literature and the lecture notes

Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
The student is able to think and act both creatively and entrepreneurially.	<ul style="list-style-type: none">K_K06	<ul style="list-style-type: none">an evaluation testan oral response	<ul style="list-style-type: none">LectureProject
The student has knowledge of quality management and business management.	<ul style="list-style-type: none">K_W20	<ul style="list-style-type: none">an evaluation test	<ul style="list-style-type: none">Lecture
The student has a thoroughly extensive knowledge of the field of management in organizations	<ul style="list-style-type: none">K_W05	<ul style="list-style-type: none">an evaluation test	<ul style="list-style-type: none">Lecture
The student is able to select and use appropriate methods, in order to optimise his/ her research into the simple problems, related to Management and Mechanical Production Engineering.	<ul style="list-style-type: none">K_U14	<ul style="list-style-type: none">a project	<ul style="list-style-type: none">Project
The student has basic knowledge regarding the protection of industrial and intellectual properties and is also able to use patented information data.	<ul style="list-style-type: none">K_W21	<ul style="list-style-type: none">an ongoing monitoring during classes	<ul style="list-style-type: none">LectureProject

Outcome description	Outcome symbols	Methods of verification	The class form
The student is able to assess costs, both initial and estimated, of the engineering projects implemented, in order to provide a preliminary economic analysis of the engineering activities undertaken.	<ul style="list-style-type: none"> K_U23 	<ul style="list-style-type: none"> a project 	<ul style="list-style-type: none"> Project

Assignment conditions

Lecture: graded credit

The assessment is issued based on a written test covering the verification of the knowledge of basic problems.

Project: graded credit

The assessment is determined on the basis of the component evaluating skills related to the implementation of project tasks, the prepared report and a component for the student's "defence" of the report.

Recommended reading

1. Aaron J. Shenhar, Toward a typological theory of project management, Elsevier, 1996.
2. Garold D. Oberlender, Project management for Engineering and construction. McGraw Hill International edition, 2018.

Further reading

1. Project Management Innovations, A Quarterly Publication of the Project Management Institute's New Product Development Specific Interest Group

Notes

Modified by dr inż. Tomasz Belica (last modification: 12-04-2023 23:05)

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