COURSE DESCRIPTION CARD - SYLLABUS

Course name

Passing project

Course

Field of study

Management and Production Engineering

Year/Semester

2/3

Area of study (specialization)

Computerization of production

Profile of study

general academic

Level of study

Second-cycle studies

Course offered in

Polish

Form of study

part-time

Requirements

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

20

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

PhDRobert Sika

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Faculty of Mechanical Engineering

Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

The student knows the relationship between engineering and managerial activities in a production company. The student is able to design a production (service) system along with carrying out technical and financial analysis of its operation. He can work in a team, recognizes the need for continuous training.

Course objective

Linking knowledge and skills acquired by students in the current course of study, in order to implement the project to develop / and / or implement IT tools that support production processes.

Course-related learning outcomes

Knowledge

1. The student knows the organizational and legal conditions of a production (service) enterprise.

Skills

1. Student has the skills to design products, processes, production systems as well as to plan and schedule production processes.

2. Student is able to indicate the current possibilities and ways of obtaining funds for running (opening) a business.

3. Student is able to make a project in an enterprise in the field of management and production engineering.

Social competences

1. The student is creative, responsible for making decisions, he can determine the priorities of the activities performed.

2. Student is able to cooperate with the team.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Checking the progress of design work in accordance with the prepared project implementation schedule. Completion based on the report prepared for the project of the work developed by the Student and defense in the form of presentation of results as well as discussion and answer to questions. Passing threshold - achieving the project goal in 50%.

Programme content

Implementation of a group project in the field of production management and engineering. Project topics selected individually - may include detailed issues in the field of: product development and production processes, technical production preparation, production control and supervision.

Project structure:

1. Purpose and scope of the project, problem definition

2. Project plan and task schedule

3. Literature analysis

4. Solution concept

5. Development of the solution

6. Verification

7. Summary and conclusions

Teaching methods

Project: solving practical problems, searching for sources, teamwork, discussion.

Bibliography

Basic

1. Pająk E.: Zarządzanie produkcją. Produkt, technologia, organizacja, Wydawnictwo Naukowe PWN, Warszawa 2006

2. A. Hamrol, Strategie i praktyki sprawnego działania, PWN 2015

3. Wirkus M.,Roszkowski H., Ddostatni E., Gierulski W., Zarządzanie projektem, PWE, Warszawa, 2014

Additional

1. Masłyk-Musiał E., Rakowska A., Krajewska-Bińczyk E., Zarządzanie dla inżynierów, PWE, 2012

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
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, project preparation)[1]	70	3,0

[1] delete or add other activities as appropriate