



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Industrial Project / Organizational Consulting

Course

Field of study

Engineering Management

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

polish, english

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

205

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

Promoter of engineering thesis

email: office_demf@put.poznan.pl

tel. 61 665 33 74

Responsible for the course/lecturer:

Faculty of Engineering Management

ul. Jacka Rychlewskiego 2, 60-965 Poznań

Prerequisites

Knowledge: Has knowledge of the subjects covered by the first cycle studies in management engineering

Skills: Is able to identify and associate processes in the field of organization and management

Competences: Demonstrates readiness to develop their knowledge and skills. Is open to team work

Course objective

The aim of the course is to valorize knowledge from studies to conduct an analysis of processes in the main functional subsystems of an enterprise / institution and to design necessary changes to these processes.

Course-related learning outcomes

Knowledge



Has extended and in-depth knowledge in the field of sciences necessary to understand and describe the problems of organization management [P6S_WG_01].

Is able to apply typical methods of solving simple problems in the field of machine construction and operation - [P6S_WG_16].

Has basic knowledge necessary to understand the non-technical conditions of engineering activities; knows the basic principles of health and safety at work in force in the machine-building industry [P6S_WG_18].

Knows and understands the basic concepts and principles of industrial property protection and copyright [P6S_WK_03].

Skills

Is able to use basic theoretical knowledge and obtain data to analyze specific social processes and phenomena (cultural, political, legal, economic) in the field of management [P6S_UW_01].

Can correctly interpret social (cultural, political, legal, economic) phenomena in the field of management [P6S_UW_06].

Is able to correctly analyze the causes and course of processes and phenomena in the field of management and quality sciences [P6S_UW_07].

Can - when formulating and solving engineering tasks, notice their systemic, socio-technical, organizational, economic and non-technical aspects [P6S_UW_11].

Is able to make a preliminary economic analysis of engineering activities [P6S_UW_12].

is able to identify design tasks and solve simple design tasks in the field of machine construction and operation [P6S_UW_14].

Can apply typical methods to solve simple problems in the field of machine construction and operation [P6S_UW_15].

Is able to design the construction and technology of simple machine parts and components and design the organization of first-stage complexity production units [P6S_UW_16].

Has the ability to prepare typical essays in Polish and a foreign language, recognized as basic for fields of science and scientific disciplines relevant to management engineering, concerning specific issues, using basic theoretical approaches, as well as various sources [P6S_UK_01].

Has the ability to prepare oral presentations, in Polish and in a foreign language, in the field of management, specific to management engineering, regarding specific issues, using basic theoretical approaches, as well as various sources [P6S_UK_02].

can bear responsibility for own work and jointly implemented tasks and is ready to comply with the principles of team work [P6S_UO_01].



Social competences

Can see cause-and-effect relationships in achieving the goals and rank the importance of alternative or competitive tasks [P6S_KK_02].

Is aware that creating products that meet the needs of users requires a systematic approach taking into account technical, economic, marketing, legal, organizational and financial issues [P6S_KO_02].

Can prepare and implement business ventures [P6S_KO_03].

Is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the associated responsibility for decisions [P6S_KR_01].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative assessment:

Ongoing assessment of organizational changes proposed by the promoter of engineering work

Summative assessment:

Assessment of the presentation prepared by the graduate, state of progress of the thesis research and discussion about it.

Programme content

Analysis of processes / systems: product development and market introduction, marketing and sales, operation control, economic control of an enterprise, human resource management. Human issues - work environment. Design changes of selected processes / systems. The concept of process-oriented organizational structure.

Teaching methods

Seminars, discussions, critical literature analysis.

Bibliography

Basic

In accordance with the topic of engineering thesis.

Additional

In accordance with the topic of engineering thesis.



Breakdown of average student's workload

| | Hours | ECTS |
|---|-------|------|
| Total workload | 202 | 4,0 |
| Classes requiring direct contact with the teacher | 25 | 1,0 |
| Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹ | 180 | 3,0 |

¹ delete or add other activities as appropriate