# 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

Faculty of Engineering Management

ul. Jacka Rychlewskiego 2, 60-965 Poznań,
Poland

Responsible for the course/lecturer:

## 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, economiic 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