COURSE DESCRIPTION CARD - SYLLABUS

Course name

Internship

Course

Field of study

Management and Production Engineering

Year/Semester

3/6

Area of study (specialization)

Profile of study

practical

Level of study

First-cycle studies

Course offered in

PL

Form of study

full-time

Requirements

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

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Faculty of Mechanical Engineering

Piotrowo Street 3, 60-965 Poznan, room 122

Responsible for the course/lecturer:

Prerequisites

The student should have ordered theoretical knowledge in the field of study. Be able to search for necessary information in literature, databases, catalogs. Have the ability to self-study. The student should be able to use information and communication techniques appropriate to carry out engineering tasks. Understand the needs of team collaboration.

Course objective

The aim of the course is to make students aware of the possibility of using the theoretical knowledge of management and production engineering in market economy conditions. Attention to the complexity of processes taking place in industrial plants.

Course-related learning outcomes

Knowledge

The student is able to understand practical connections in the field of design, manufacturing and management techniques.

The student understands the life cycle of mechanical devices and systems.

The student is aware of the non-technical conditions of engineering activities.

Skills

The student knows how to obtain information from literature, databases and other properly selected sources in the field of mechanical engineering and other engineering and technical issues in the selected organization.

The student is able to work individually and in a team on an assigned issue.

The student is able to develop and present documentation on the implementation of the engineering task.

Social competences

The student understands the need for self-education associated with the development of technology.

The student understands the social and systemic effects of engineering activities.

The student understands the need for creative action.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Internship report, anonymous survey.

Programme content

General characteristics of the business entity: formal and legal status, organizational structure, employment, subject of activity. Analysis of the production process: range of production, technologies used, forms of production organization. Analysis of the production process on the example of a selected final product: design (cooperation with the sales department, methods and tools supporting design), material development, technological processes (technological operations, working time normalization, production equipment), auxiliary processes (supply, storage and transport operations inside factory), quality control processes. Organization of work at the workstation: tasks carried out at the workstation (types, number), spatial development plan of the workstations, organization of workstation service (supply of materials and tools, transport, maintenance, repairs, quality control, issuing works per position and accounting for completed tasks Organization of maintenance services and analysis of operational problems of production machines (description of failures, actions taken, repair). Project of possibilities to improve work at the workplace. Analysis of production practice in terms of the subject of engineering thesis or analysis of issues submitted for resolution by the workplace. agreement with the

supervisor of the thesis topic, which may be a solution to a technical or organizational problem of the company.

Teaching methods

Bibliography

Basic

Additional

Provided by companies implementing practices in the field of topics related to production management and engineering, the functioning of the company and OHS in the production plant.

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	0	0,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) [1]	100	4,0

[1] delete or add other activities as appropriate