# POZNARO POZNAR

# POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

# **COURSE DESCRIPTION CARD - SYLLABUS**

Course name

Semester internship [S1Eltech1P>PS3]

Course

Field of study Year/Semester

Electrical Engineering 4/7

Area of study (specialization) Profile of study

practical

Level of study Course offered in

first-cycle Polish

Form of study Requirements full-time compulsory

**Number of hours** 

Lecture Laboratory classes Other (e.g. online)

0 0 210

Tutorials Projects/seminars

0 0

Number of credit points

7,00

Coordinators Lecturers

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# **Prerequisites**

A student starting this subject should have basic knowledge, skills and social competences resulting from the implementation of the study program for the field of Electrical Engineering in the group of basic, major and specialization subjects.

# Course objective

Gaining practical knowledge of issues related to the field of study.

# Course-related learning outcomes

## Knowledge

- 1. Has practically founded knowledge in the field of the education program for the field of electrical engineering, in particular in the group of major subjects.
- 2. Has an ordered and theoretically founded knowledge of the construction, principles of operation and operation of transformers, electrical machines and technical systems, knows the processes taking place in their life cycle.
- 3. Knows and understands the processes taking place in the life cycle as well as the structure and principle of operation of electronic and optoelectronic devices as well as simple analog and digital electronic and

power electronics systems.

- 4. Knows and understands typical engineering technologies in the field of the studied field and is familiar with the latest development trends in the field of study.
- 5. Has a basic knowledge of the management, creation, running and development of economic activity related to the given qualification.

### Skills

- 1. Can use the knowledge of the education program for the field of electrical engineering, in particular in the group of major subjects.
- 2. Can make a critical analysis and evaluation of the functioning of the existing electrical systems and devices, using appropriate methods and tools.
- 3. Can use properly selected IT tools to simulate, design and analyze electrical systems.
- 4. Applies the principles of occupational health and safety.
- 5. Can assess the usefulness of basic methods and tools for solving practical engineering tasks, typical for the field of electrical engineering, and can select and use appropriate methods and tools.
- 6. Can read and interpret technical documentation used in an industrial plant and edit specialist technical documentation in accordance with the standards in force in the company.

# Social competences

- 1. Is aware of the need to initiate activities for the public interest, understands various aspects and effects of an electrical engineer's activity, including the impact on the environment, and the related responsibility for decisions made.
- 2. Is aware of the importance of their own work and the need to follow the rules of professional ethics, is ready to submit to the rules of teamwork and to bear responsibility for jointly performed tasks, as well as to care for the achievements and traditions of the profession.
- 3. Can think and act in an entrepreneurial way in the field of electrical engineering.
- 4. Is aware of the impact of innovations introduced in the enterprise employing him on the development of the region and his personal career path.

# Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

An internship report certified by the internship tutor. An internship certificate issued by the host entity for the internship.

# Programme content

Training in practical knowledge of issues related to the field of study.

# Course topics

Training in occupational health and safety and fire regulations. Acquainting with the applicable work regulations and conditions for the protection of state and official secrets. Acquainting with the structure and functioning of the enterprise (institution). Implementation of an individual internship program. Preparation of a report on the course of internships.

# **Teaching methods**

Teaching methods should be adapted to the individual internship program.

# **Bibliography**

### Basic

- 1. Regulamin organizacji praktyk studenckich objętych programem studiów na Wydziale Automatyki, Robotyki i Elektrotechniki.
- 2. Regulamin studiów stacjonarnych i niestacjonarnych pierwszego i drugiego stopnia uchwalony przez Senat Akademicki Politechniki Poznańskiej.

## Additional

1. Obwieszczenie Ministra Gospodarki, Pracy i Polityki Społecznej z dnia 28 sierpnia 2003 r. w sprawie ogłoszenia jednolitego tekstu rozporządzenia Ministra Pracy i Polityki Socjalnej w sprawie ogólnych

przepisów bezpieczeństwa i higieny pracy. Dz.U. 2003 nr 169 poz. 1650.

# Breakdown of average student's workload

|  | Hours | ECTS |
|--|-------|------|
| Total workload   | 210   | 7,00 |
| Classes requiring direct contact with the teacher  | 120   | 4,00 |
| Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) | 90    | 3,00 |