



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Semester internship No. 4

### Course

Field of study

Automatic Control and Robotics (practical profile)

Area of study (specialization)

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Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/6

Profile of study

practical

Course offered in

polish

Requirements

compulsory

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

240

### Number of credit points

8

### Lecturers

Responsible for the course/lecturer:

Krzysztof Wandachowicz, Ph.D, D. Sc., Eng.

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tel. 616652397

Faculty of Control, Robotics and Electrical

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Piotrowo 3A Street, 60-965 Poznań

Responsible for the course/lecturer:

Robert Bączyk D. Sc., Eng.

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tel. 616652874

Wydział Automatyki, Robotyki i Elektrotechniki

ul. Piotrowo 3A 60-965 Poznań

### 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 Automatic Control and Robotics in the group of basic and major subjects.

### Course objective

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

### Course-related learning outcomes

Knowledge

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### Skills

1. Can work individually and in a team; is able to plan and organize work - both individually and in a team; knows how to estimate the time needed to complete the task; is able to develop and implement a work schedule that ensures meeting deadlines.
2. Can plan and organize work - both individually and in a team, in accordance with the principles of occupational health and safety.
3. Has experience in the maintenance of devices, facilities and automation systems gained in an industrial plant, is able to diagnose and maintain the operation of devices, facilities and automation systems.
4. Has experience in solving practical engineering tasks gained while working in an industrial plant, can solve a practical engineering task in a workplace.
5. Can use the norms and standards in force in industrial automation systems.
6. Can properly select methods and tools for solving an engineering task, including non-standard tasks, taking into account their non-technical aspects.

### Social competences

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### Methods for verifying learning outcomes and assessment criteria

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. A questionnaire describing the achieved learning outcomes.

### Programme content

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	240	8,0
Classes requiring direct contact with the teacher	200	8,0
Student's own work (literature studies, preparation for design classes, preparation of the project, implementation of an individual internship program) <sup>1</sup>	200	8,0

<sup>1</sup> delete or add other activities as appropriate