



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Automatic control and robotics

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

English

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

15

Number of credit points

1

Lecturers

Responsible for the course/lecturer:

prof. dr hab. inż. Piotr Skrzypczyński

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Institute of Robotics and Machine Intelligence

ul. Piotrowo 3A

Responsible for the course/lecturer:

Prerequisites

The student should have basic knowledge of the foundations of robotics, measuring systems, manipulating and mobile robots, robot programming, computer science and artificial intelligence. Should be able to obtain information from the indicated sources. They should also understand the necessity to expand their competences and acquire new skills.

Course objective

The aim of the seminar is to prepare for writing the BSc thesis. During it, the scope of the thesis is reviewed, and a critical review of the literature and existing solutions is made. The aim is also to consolidate the writing and presentation skills.



Course-related learning outcomes

Knowledge

K1_W26 The graduate knows and understands the general principles of creating and developing forms of individual entrepreneurship.

Skills

Social competences

K1_K03 The graduate is aware of responsibility for own work and willingness to conform to the principles of teamwork and taking responsibility for jointly implemented tasks; is able to lead a small team, set goals and set priorities leading to the implementation of the task. The graduate is ready to play a responsible professional role.

K1_K04 The graduate is aware of the need for a professional approach to technical issues, meticulous familiarization with the documentation and environmental conditions in which the equipment and its components can operate. The graduate is ready to observe the rules of professional ethics and to demand it from others, to respect the diversity of opinions and cultures.

K1_K06 The graduate is ready to fulfil social obligations and co-organise activities for the benefit of the social environment. The graduate is aware of the social role of a graduate of a technical university and understands the need to formulate and convey to the public (in particular through the mass media) information and opinions on the achievements of automation and robotics and other aspects of engineering activities; the graduate makes efforts to communicate such information and opinions in a generally understood manner.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Ongoing control of the progress in the preparation of the BSc thesis. Preparation of a presentation showing the progress of work and participation in the discussion on it. The presentations are assessed.

Programme content

Analyzing the subject of the thesis, including a critical review of the literature and comparing it to existing solutions.

Teaching methods

.Case study, presentation

Bibliography

Basic

1. A. Dudziak, A. Żejmo, Redagowanie prac dyplomowych – wskazówki metodyczne dla studentów. Difin,



2008

2. J. Maćkiewicz, Jak pisać teksty naukowe?, Uniwersytet Gdański, 2001.

3. P. Oliver, Jak pisać prace uniwersyteckie : poradnik dla studentów, Wyd. Literackie, 1999

Additional

1. J. Pieter, Ogólna metodologia pracy naukowej, Ossolineum, 1967.

Breakdown of average student's workload

	Hours	ECTS
Total workload	30	1
Classes requiring direct contact with the teacher	15	0.5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	15	0,5

¹ delete or add other activities as appropriate