



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Automatic control and robotics

Area of study (specialization)

Robots and autonomous systems

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

30

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 master's 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

Skills

K2_U7 has language skills in the field of automation and robotics, in accordance with the requirements set out for the B2 + level of the European System for the Description of Language Education;;

K2_U14 the graduate is able to perceive non-technical aspects of automation and robotics, including environmental, economic and legal aspects, while formulating and solving tasks involving design of automation and robotics systems. Can communicate on specialised topics with a diverse range of audiences.

Social competences

2_K1 understands the need and knows the possibilities of continuous training? improving professional, personal and social competences, is able to inspire and organize the learning process of other people;

K2_K6 the graduate is ready to fulfil social obligations and to inspire and organize 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 in the field of research and application work 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 master's thesis by the supervisor. 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	45	1
Classes requiring direct contact with the teacher	30	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