



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar [S2AiR2-RiSA>SD]

### Course

Field of study

Automatic Control and Robotics

Year/Semester

2/3

Area of study (specialization)

Autonomous Robots and Systems

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

### Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

30

### Number of credit points

2,00

### Coordinators

prof. dr hab. inż. Piotr Skrzypczyński  
piotr.skrzypczynski@put.poznan.pl

### Lecturers

### 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 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.

### Course topics

- Structure and content division of a multimedia presentation on the thesis.
- Key principles and best practices for presenting thesis results and delivering the accompanying lecture.
- Common mistakes and awkwardness during thesis presentation and defense.
- Basic regulations concerning the thesis, including its purpose, copyright issues, and archiving.
- Division of the thesis text into main parts, their significance, text composition, mathematical formulas, tables, figures, evaluation of results, formulation of conclusions, language quality, terminology, bibliography citation, and acceptable use of copyrighted materials.
- Planning tasks and dividing work in group thesis projects (Gantt chart).
- Procedure for preparing, reviewing, and submitting the thesis.
- Procedure for thesis defense and final examination.

### Teaching methods

.Case study, presentation

### Bibliography

Basic:

1. A. Dudziak, A. Żejmo, Redagowanie prac dyplomowych - wskazówki metodyczne dla studentów. Difin, 2008. 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	60	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00