



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Research laboratory

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

2/2

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

3

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

Supervisors of the MSc. thesis or other selected faculty members.

email: office_cie@put.poznan.pl

tel. 061 6652365

Institute of Robotics and Machine Intelligence

ul. Piotrowo 3A 60-965 Poznań

Prerequisites

The student should have basic knowledge of the basics of robotics, measuring systems, manipulating and mobile robots, robot programming and computer science. 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 research studio is to prepare for the implementation of the master's thesis. During it, the scope of the thesis is defined and a critical review of the literature and existing solutions is made. The



aim is also to consolidate practical problem-solving skills in the field of robotics and programming acquired in the course of knowledge studies.

Course-related learning outcomes

Knowledge

K2_W14 has the knowledge necessary to understand the economic, legal and social aspects of engineering activities and the possibility of applying them in practice;

K2_W15 has knowledge of running a business, engineering project management and quality management;

Skills

K2_U4 is able to prepare a scientific study in the mother tongue and a short scientific report in English, presenting the results of own research

K2_U5 is able to prepare and present, in Polish and in a foreign language, an oral presentation on the results of his / her work (including research) defined by the project task

K2_U6 has self-education skills to improve and update professional competences

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_U24 is able to manage the work of the team, is able to lead a team and is able to estimate the time needed to complete the assigned task; is able to develop a work schedule and carry out tasks ensuring meeting deadlines;

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_K3 is aware of the responsibility for their own work and readiness to submit to the rules of teamwork and responsibility for jointly performed tasks; is able to lead a team, set goals and define priorities leading to the implementation of the task;

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. Work progress and presentation 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, paper, discussion.

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	90	3
Classes requiring direct contact with the teacher	30	1
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	60	2

¹ delete or add other activities as appropriate