POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Preparation for scientific research Course Field of study Automatic Control and Robotics				
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Automatic Control and Robotics				
	-			
Area of study (specialization)		Profile of study		
		general academic		
Level of study First-cycle studies Form of study full-time		Course offered in		
		Polish		
		Requirements		
		compulsory		
Number of hours				
Lecture Lab	oratory classes	Other (e.g. online)		
0 0		0		
Tutorials Pro	jects/seminars			
0 6				
Number of credit points				
1				
Lecturers				
Responsible for the course/lecturer:	R	esponsible for the course/lecturer:		
dr hab. inż. Maciej Marcin Michałek, prof. PP		prof. dr hab. inż. Piotr Skrzypczyński		

dr hab. inż. Maciej Marcin Michałek, prof. PP email: maciej.michalek@put.poznan.pl Faculty of Automatic Control, Robotics and Electrical Engineering Piotrowo Street 3A, 60-965 Poznań prof. dr hab. inż. Piotr Skrzypczyński email: piotr.skrzypczynski@put.poznan.pl Faculty of Automatic Control, Robotics and Electrical Engineering Piotrowo Street 3A, 60-965 Poznań

Prerequisites

A student starting the course should have the knowledge, skills, and competences learned during the previous years of study, which can be applied to make scientific research in the field of automation and robotics. In the area of social competences the student should present the following positive attitudes: honesty, responsibility, perseverance, congnitive curiosity, creativity, personal culture, respect for other people.

Course objective

The main objective of the course is discussion the fundamental methodological rules of scientific research work in the field of automation and robotics, and also presentation of selected research results



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obtained in the institutes serving the dydactic process for the Automatic Control and Robotics field of study.

Course-related learning outcomes

Knowledge

1. A student is familiar with the current state of newest development trends in the area of automation and robotics.

2. A student knows fundamental rules of a scientific reserach work and knows selected methods, techniques, and tools used for solving research problems in the area of automation and robotics.3. A student knows the types of research activities.

Skills

1. A student is able to acquire scientific information from the professional literature, from data bases, and other sources, also in a foreign language.

2. A student is able to discuss on research topics in the area of automation and robotics in a professional community.

Social competences

1. A student understands the needs and knows possibilities of life-long learning in order to continuously develope his/her professional, personal, and social competences.

2. A student is aware of a society role of technical university's allumni and understands the need for clearly formulating and presenting to the society the opinions and information about the achievements in the field of automation and robotics, and about other aspects of the engineering activities.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The final rating: upon the presence of a student and his/her activity in discussions during the classes.

Programme content

- Types of research activities and their characteristics.
- Elements of scientific research methodology in the field of automation and robotics.
- Acquisition of scientific knowledge and information in the area of automation and robotics.
- Current research trends and selected research results in the field of automation and robotics.

Teaching methods

- Multimedia presentations, discussions, Q&A sessions.

Bibliography

Basic

[1] Jak być uczonym. Wydanie II, Michał Heller, Copernicus Center Press, 2017

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Additional

[2] Poradnik kwalifikowania zadań w projektach B+R o charakterze społeczno-ekonomicznym. Do definicji ustawy o zasadach finansowania nauki, NCBR, Warszawa, 2018

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1
Classes requiring direct contact with the teacher	6	0,5
Student's own work (literature studies, preparation of questions and topics for expected discussions during classes) ¹	19	0,5

¹ delete or add other activities as appropriate