# POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

## **COURSE DESCRIPTION CARD - SYLLABUS**

#### Course name

The elements of computer science techniques [S1AiR1E>PTI]

Course			
Field of study		Year/Semester	
Automatic Control and Robotics		1/1	
Area of study (specialization)		Profile of study general academic	>
Level of study first-cycle		Course offered in English	
Form of study full-time		Requirements compulsory	
Number of hours			
Lecture 15	Laboratory classe 0		Other (e.g. online) 0
Tutorials 0	Projects/seminars 15	5	
Number of credit points 3,00			
Coordinators		Lecturers	
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### Prerequisites

none

#### Course objective

none

#### Course-related learning outcomes

Knowledge:

Has a basic knowledge of the handling and use of IT tools for the design, rapid prototyping, simulation and visualisation of automation and robotics systems and for recording the design of mechanical constructions [K1\_W10 (P6S\_WG)].

Knows the methods, techniques, tools and materials used in solving simple engineering tasks in the field of automation and robotics [K1\_W23 (P6S\_WG)]. Skills: Can communicate using a variety of techniques in professional and other communities [K1\_U3 (P6S\_UK)]. Is able to use information engineering and communication techniques [K1\_U8 (P6S\_UW)]. Social competences:

Is ready to critically assess his/her knowledge; understands the need for and knows the possibilities of continuous training - improving professional, personal and social competence, is able to inspire and organize the learning process of others [K1\_K1 (P6S\_KK)].

The graduate is ready to fulfil social obligations and co-organise activities for the benefit of the social environment; 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 [K1\_K7 (P6S\_KO)].

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

none

#### Programme content

none

#### Course topics

none

#### **Teaching methods**

none

#### Bibliography

none

#### Breakdown of average student's workload

	Hours	ECTS
Total workload	60	3,00
Classes requiring direct contact with the teacher	30	1,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,50