

Robotics

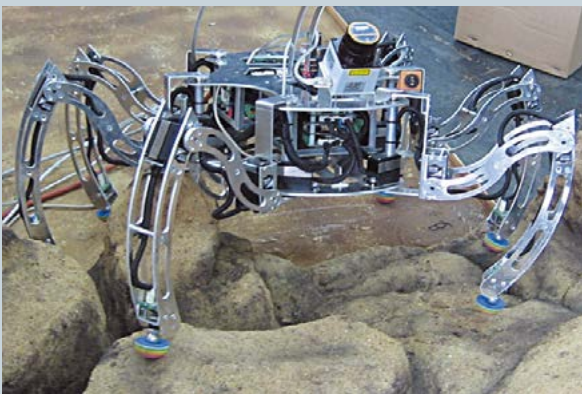
Field of study: Automatic Control and Robotics



Florian Cordes, member of StarTiger Dropter team

Programme description

Graduate engineering studies provide knowledge of basic problems of automation and robotics: dynamic systems, signal processing, robot kinematics, components and industrial automation equipment, design and programming of microprocessor systems, industrial controllers, sensors and vision systems. Graduates have competencies necessary for projects of medium difficulty in the field of measurement and control. They are able to solve practical problems concerning the application of industrial automation and simple robotic systems. Knows the basic social, legal, economic and technical determinants of implemented projects.



Course summary:

Semester 1

- Information Engineering
- Mathematics
- The elements of computer science techniques
- Ergonomics, occupational health and work safety, intellectual rights protection

Semester 2

- Physics
- Selected topics in mathematics
- Electrical Engineering
- Theoretical mechanics and mechanics of materials
- Signals and dynamic systems

Semester 3

- Electronics
- Real-time systems
- Automatic Control
- Electrical machines and drives in control engineering

Semester 4

- Control of electrical drives
- Metrology
- Microprocessors systems
- Robotics
- Internships

Semester 5

- Elective course I
- System identification
- Devices of automation and actuators
- Control theory of the continuous and discrete events processes
- Electrical and electrical circuits designing

Semester 6

- Elective course II
- Digital controllers and PLC
- Control of motion and electric vehicles
- Mechanical constructions
- Term design
- Diploma seminar

Semester 7

- Flexible manufacturing systems
- Analysis of control systems
- Robot programming and task planning
- Diploma work
- Diploma seminar



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University	Poznan University of Technology Poznan, POLAND
Degree to be obtained	Bachelor of Science (Engineer)
Faculty	Faculty of Electrical Engineering
Address	Piotrowo 3A 60-965 Poznan Phone: +48 61 665 2539 Fax: +48 61 665 2548
Programme web site	https://www.put.poznan.pl/en
Contact	Lifelong Learning and International Education Office Pl. M. Skłodowskiej-Curie 5 60-965 Poznan
Phone	+48 61 665 3544
Fax	+48 61 665 3956
E-mail	study@put.poznan.pl
Language of instruction	English
Tuition fee	EU citizens: free of charge Non-EU citizens 1200 EUR first semester 1000 EUR each following semester
ETCS points	210
Duration	3.5 years (7 semesters)
Programme begins	end of September
Programme ends	end of June
Deadline for applications	the middle of July
Education requirements	English language – level B2 (Common European Framework), Secondary school certificate which entitles its holder to apply to higher education institutions. Full list of the required documents is available at https://www.put.poznan.pl/en
Mode of instruction	Lectures, classes, laboratory classes, projects, internships

