

## M.Sc. Programmes

# Information and Communication Technologies

Field of study: Electronics and Telecommunications



## Course summary:

### Preparatory semester\*:

- Telecommunication systems
- Digital signal processing
- Elective courses in subject areas: Communication and computer networks, Multimedia, Programming, Digital and wireless communications

### Semester 1

- Selected topics in mathematics
- Numerical methods
- English/Polish language
- Information and coding theory
- Network management
- Mobile systems
- Multimedia systems
- Satellite navigation systems
- Optical fiber communication systems
- Practical placement (internship)

### Semester 2

- Optimization methods
- Telecommunications network design
- Programmable digital systems
- Advanced signal processing algorithms
- Workshop
- Elective courses – advances in subject areas: Transmission, Digital signal processing, Security

### Semester 3

- Elective courses – advances in subject areas: Computer networks, Modern telecommunications, Wireless communications
- Diploma seminar
- Diploma thesis

\* The 4-semester programme additionally has a 'preparatory' semester and is dedicated to the Bachelor-level diploma holders in subject areas other than electronics and telecommunications (e.g. general electrical engineering, computer science, physics, technical physics, mathematics, control engineering etc.).

## Programme description

Master studies in Electronics and Telecommunications (specialization: Information and Communication Technologies) last three or four semesters. The 3-semester programme starts in end-February whereas 4-semester studies start in end-September.

The 3-semester programme version is meant for the B.Sc. graduates in the field of electronics and telecommunications exclusively (not in any other, related subject area).

The 4-semester programme additionally has a 'preparatory' semester and is dedicated to the Bachelor-level diploma holders in subject areas other than electronics and telecommunications (e.g. general electrical engineering, computer science, physics, technical physics, mathematics, control engineering etc.). Thus, 'preparatory' semester is mainly devoted to enhance and widen the student's knowledge in telecommunications and electronics and the curriculum following it is identical to the 3-semester programme.

Every year a modified set of elective courses is approved by the faculty council, based on the lists of proposed courses as well as general students' preferences, related to the specializations run currently for the MSc programmes.

A graduate receives the degree of Master of Science in Electronics and Telecommunications, specialization Information and Communication Technologies (ICT). The M.Sc. graduates in electronics and telecommunications are prepared to perform research and development in the area of their education. They are prepared to work in R&D centres, telecommunications and electronics companies. They are also able to manage engineering teams involved in designing new equipment, networks, services, etc. They are ready to undertake doctoral studies.

Their fluency in English allows free exchange of thoughts, interpersonal contacts and competent drawing up of technical specifications and documentations.



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# Information and Communication Technologies

Field of study: Electronics and Telecommunications

<b>University</b>	Poznan University of Technology Poznan, POLAND
<b>Degree to be obtained</b>	Master of Science
<b>Department</b>	Faculty of Electronics and Telecommunications
<b>Address</b>	Piotrowo 3a 60-965 Poznan Phone: +48 61 665 2293 Fax: +48 61 665 2572
<b>Programme web site</b>	<a href="http://www.put.edu.pl/">http://www.put.edu.pl/</a>
<b>Contact</b>	Lifelong Learning and International Education Office Pl. M. Skłodowskiej-Curie 5 60-965 Poznan
<b>Phone</b>	+48 61 665 3544
<b>Fax</b>	+48 61 665 3956
<b>E-mail</b>	<a href="mailto:study@put.poznan.pl">study@put.poznan.pl</a>
<b>Language of instruction</b>	English
<b>Tuition fee</b>	EU citizens: free of charge NON-EU citizens: 2000 EUR per year
<b>Registration fee</b>	EU citizens: 85 PLN NON-EU citizens: 200 EUR
<b>ECTS points</b>	90 (3-sem.) or 120 (4-sem.)
<b>Duration</b>	1,5 years (3 semesters) or 2 years (4 semesters)
<b>Programme begins</b>	end of February (3-semester programme) end of September (4-semester programme)
<b>Programme ends</b>	end of June
<b>Deadline for application</b>	November 1st for 3-sem. programme June 1st for 4-sem. programme
<b>Education requirements</b>	English language – level B2 (Common European Framework), (3-semester programme): B.Sc. degree (or equivalent) in Electronics and Telecommunications exclusively (4-semester programme): B.Sc. degree (or equivalent) in electronics and telecommunications or in related study fields Full list of the required documents is available at <a href="http://www.put.edu.pl/">http://www.put.edu.pl/</a>
<b>Mode of instruction</b>	Lectures, classes, laboratory classes, projects, internships

