



ELECTRONICS AND TELECOMMUNICATION TECHNOLOGIES PROGRAMME

Programme type	Master's studies (university)
Field of study	Engineering Sciences
Study area	Electronic Engineering
Degree	Master in Engineering Sciences
Duration	2 years (4 semesters)
Workload	120 ECTS
Language of instruction	English
Location	Vilnius, Lithuania
Starting date	1 st of September
Tuition fee	4234 EUR/per year

PROGRAMME DESCRIPTION

- *The objective*

To prepare highly qualified specialists who are able to understand develop and integrate the latest technologies in the modern electronics and telecommunication market, plan and organize their maintenance and renewal.

- *Career opportunities*

Our graduates can develop their further career in industry companies specializing in development, implementation and administration of various electronic and telecommunication solutions and products, government communications regulation authorities, etc.

- *Access to further studies*

There is a possibility to extend the studies in a PhD programme the fields of Electronics, Physics or Material engineering.

KEY LEARNING OUTCOMES

Graduates of master studies in Electronics and Telecommunication Technologies programme will be skilful:

- to work with specialized telecommunication devices and technologies, ultra-high-frequency electronic devices;
- to model the coverage of wireless networks, calculate propagation properties of electromagnetic waves by statistical means such as big data analysis;
- to develop and improve embedded microcontroller systems, integrate them into existing Electronics infrastructure;
- to understand the main properties and principles of functioning of new materials and sensors used in information technologies, to be able to apply them in nowadays technologies;
- to plan their activities, efficiently work in a team and independently.

COURSE INFORMATION

The programme has the following structure:

Course Type	1st Semester	2nd Semester	3rd Semester	4th Semester
Compulsory Courses	Nanoelectronics (5 ECTS)	Surface acoustic waves in telecommunications (5 ECTS)	Microwave electronics (5 ECTS)	Master's Theses (30 ECTS)
	Materials for information technologies (5 ECTS)	Information elements (5 ECTS)	Applications of distributed computing to telecommunication network modeling (5 ECTS)	
	Air interface of mobile networks (10 ECTS)	Microcontrollers in embedded systems (5 ECTS)	Applied electrodynamics (5 ECTS)	
	Digital signal processing and simulation (5 ECTS)	Optoelectronic devices in telecommunications (5 ECTS)	Scientific research practice (15 ECTS)	
		Project work (10 ECTS)		
Elective Courses	Modeling of the Wireless Propagation Channel (5 ECTS)			
	Embedded Linux systems (5 ECTS)			
	Digital optics and imaging (5 ECTS)			

GRADUATION REQUIREMENTS

All the subjects of the programme should be passed and positive assessment of the Master's Thesis public defence.

EXAMINATION AND ASSESSMENT REGULATIONS

The main form of assessment is an examination. Every course unit is concluded with either a written or written-oral examination or pass/fail assessment. Student's knowledge and general performance during the examination are assessed by using the grading scale from 1 (very poor) to 10 (excellent).

APPLICATION AND SELECTION REQUIREMENTS

- Bachelor degree in Physics, Engineering or Technologies
- English language proficiency - the level not lower than B2 (following the Common European Framework of Reference for Languages (CEFR) (Internationally recognized certificate or *Skype* interview).
- The selection criterion is based on the weighted average of all grades recorded in the transcript of your Bachelor diploma.

Additional points could be obtained for scientific publications and scientific conference presentations

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