

# Electrical Engineering MSc

**Lilik, Ferenc PhD**

*Associate professor*

**Department of Telecommunications**

**Full-time study  
programme**

The Electrical Engineering MSc programme is designed to prepare for complex electrical engineering tasks and research.

A professional programme and the quality of education combine a wide range of courses of automation, telecommunications and intelligent and smart systems.

The programme belongs to:

Faculty of Mechanical Engineering, Informatics and Electrical Engineering

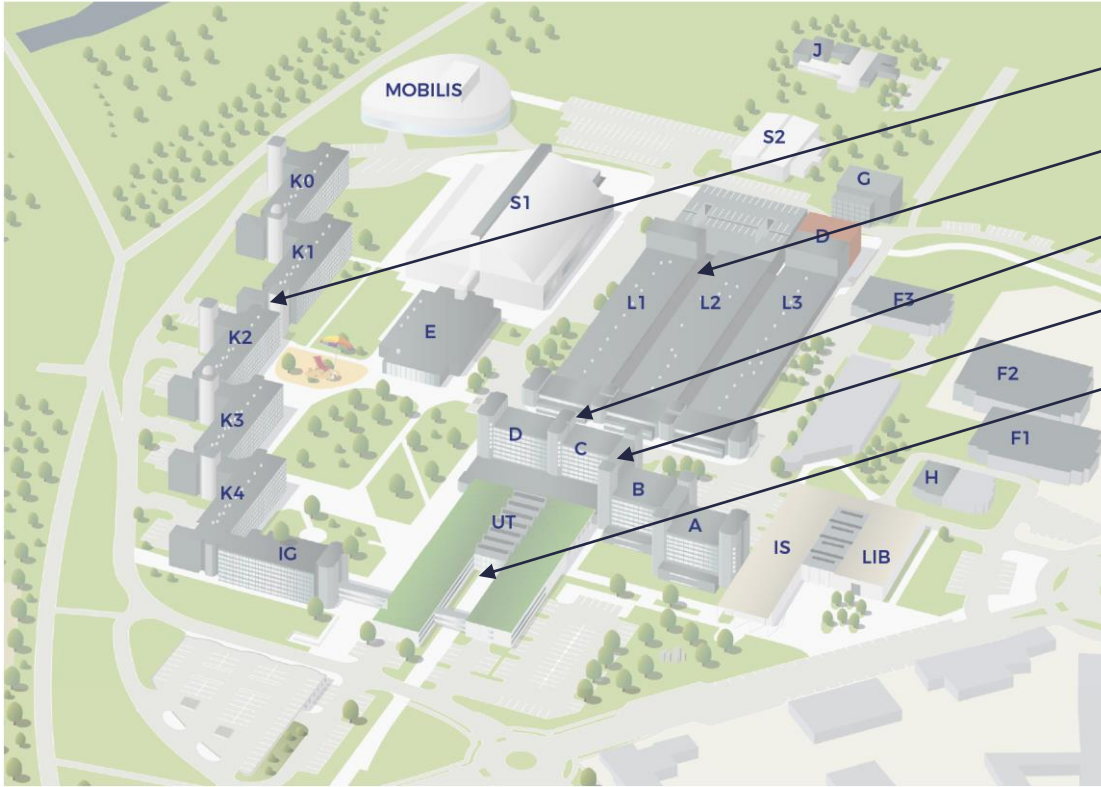
- Department of Automation and Mechatronics
- Department of Telecommunications

The lessons are in the main study building:

1 Egyetem square,  
in study buildings and lab buildings



# Map of the Campus



hostel buildings

lab buildings

railway carriage

study buildings

main entrance



## Heads of the Departments:

Áron Ballagi PhD, associate professor  
Department of Automation and Mechatronics  
([ballagi@sze.hu](mailto:ballagi@sze.hu)) Office: C-704

Gábor Borbély PhD, associate professor  
Department of Telecommunications  
([borbely@sze.hu](mailto:borbely@sze.hu)) Office: D-705

## Programme Leader:

Ferenc Lilik PhD, associate professor  
Department of Telecommunications  
([lilikf@sze.hu](mailto:lilikf@sze.hu)) Office: C-709

## Department Secretaries:

Andrea Rendesné Kalémár  
Department of Automation and Mechatronics  
Office: C-704

Helga Horváth  
Department of Telecommunications  
Office: D-704

# Subjects of the semesters (1st, 2nd)

## 1st semester

- Automatic Controls
- Numerical Analysis
- Stochastic Processes
- Coding Theory
- Mobile Communications and Smart Networking
- Business Planning and Controlling

## 2nd semester

- Electric Machines and Drives
- Computational Intelligence
- Mathematical Models and Methods
- Circuit Design
- Environmental Management
- Compusory/free electives

# Subjects of the semesters (3rd, 4th)

## 3rd semester

- Nanoelectronics
- Optical Telecommunications
- Professional Practice
- Advanced Project Management
- Thesis
- Compusory/free electives

## 4th

- Thesis
- Compusory/free electives



# Project and Hungarian Language

- Projects in two semesters
- Hungarian Language and Culture in two semesters

## Two forms of subjects

- Lectures
  - attendance is usually compulsory
  - prerequisite for end-of-term signature (e.g., test, successful laboratory practice)
  - Exam (or „offered” mark)
- Laboratories
  - attendance is compulsory
  - condition for end-of-term signature

## Requirements:

- to complete 120 credits
- to fulfil the compulsory internship (4 work weeks)
- to write and defend the final thesis
- to pass the final exam

Requirements, compulsory/recommended readings of subject specified in syllabuses

- NEPTUN: [https://neptun.sze.hu/en\\_GB/home](https://neptun.sze.hu/en_GB/home)
- SZELEARNING: <https://szelearning.sze.hu>

Other information

- [https://neptun.sze.hu/en\\_GB/information-for-students](https://neptun.sze.hu/en_GB/information-for-students)



Thank you for your attention