



# Study Plan

## M.Sc. Electrical Engineering

### Faculty of Electrical Engineering

Study plan for reference only; may be subject to change.

Lc – Lecture    Lb – Laboratory class    C – Exercise class    P- Project

Semester of study	Course name	Hours	ECTS
<b>1</b>	Electrical Measurement of Non-Electrical Parameters (Exam)	Lc:15 Lb:15	3
	<u>Electromechanical Drive Systems</u> (Pass)	Lc:15 Lb:30	4
	<u>Energy Conversions</u> (Pass)	Lc:30 Lb:15	4
	Numerical Methods in Technics (Exam)	Lc:30 Ex:15	4
	Probability and Mathematical Statistics (Pass)	Lc:30 E:15	4
	Selected Problems of Circuit Theory (Exam)	Lc:30 P:15	4
	Short Circuits in Power Systems (Exam)	Lc:30	3
	<u>Elective Courses</u> *		4
	ECTS sum		30
<b>2</b>	<u>Individual Project</u> (Pass)	P:60	5
	<u>Elective Courses</u> *		25
	ECTS sum		30
<b>3</b>	<u>Msc of Science Thesis</u> (Pass)		20
	<u>Msc. Seminar</u> (Pass)	E:30	3
	<u>Elective Courses</u> *		7
	ECTS sum		30

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\* Elective Courses:

Electro-heat engineering

Advanced Scientific Computations

Artificial Intelligence

Artificial Intelligence in Power Engineering

Computational Methods and Algorithms

Digital Power System Protection

Embedded Computer Systems

Graphical User Interfaces

Low-level Programming for x86 Microprocessors

Measurement Systems Hardware

Measurement Systems Software Environments

Mobile Measurements

Real-time Operating Systems

Software Engineering

System Identification and Control

Teletransmission Equipment in Computer Networks

Automatics and Control of Transport Systems

Distributed Energy Sources

Economics in Electrical Engineering

Electric Power Quality

Electrical Distribution Networks with Embedded Generation

Electricity Storage Systems

Intelligent Building Systems

Intelligent Electrical Installations

Interior Lighting

Power System Planning and Optimization

Power System Stability and Control

Security and Reliability of Electricity Supply

Switching Processes and Devices

Reduction of EMI stresses affecting informatics systems