



# Study Plan

## B.Sc. Electrical Engineering

### Faculty of Electrical Engineering

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

Lc – Lecture    Lb – Laboratory class    E – Exercise class    P – Project    S – Seminar

Semester of study	Course name	Hours
1	CAD Methods (Pass)	Lb:30 P:30
	Computer Science 1 (Exam)	Lc:30 Lb:15
	Electrical Material Technology (Pass)	Lc:15
	Mathematics 1 (Exam)	Lc:60 E:30
	Physical Education 1 (Pass)	E:30
	Physics 1 (Exam)	Lc:45 E:30
	Language class	
2	Circuits and Systems 1 (Exam)	Lc:30 E:30
	Computer Science 2 (Pass)	Lc:30 Lb:45
	Electrical Materials (Pass)	Lb:30
	Mathematics 2 (Exam)	Lc:60 E:30
	Mechanical Engineering (Pass)	Lc:30
	Numerical Methods (Pass)	Lc:30
	Physical Education 2 (Pass)	E:30
	Physics 2 (Exam)	Lc:30
	Elective Courses part 1 *	
Language class		
3	Circuits and Systems 2 (Exam)	Lc:30 Lb:30 E:30
	Computer Science 3 (Pass)	Lc:30
	Control (Exam)	Lc:30 E:15
	Electrical Measurements Instrumentation and Signal Transmission 1 (Pass)	Lc:45
	Electronics 1 (Exam)	Lc:45 E:30
	Physical Education 3 (Pass)	E:30
	Elective Courses part 1 *	

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	Language class	
4	Circuits and Systems – project (Pass)	P:30
	Control lab (Pass)	Lb:30
	Electrical Machines (Exam)	Lc:30
	Electrical Measurements, Instrumentation and Signal Transmission 2 (Pass)	Lc:45
	Electronics lab (Pass)	Lb:30
	High voltage technology (Exam)	Lc:30
	Introduction to Electrical Power Engineering (Exam)	Lc:30
	Microprocessor Engineering (Pass)	Lc:30
	Physical Education 4 (Pass)	E:30
5	Converter Drives Control (Exam)	Lc:15 Lb:15
	Electrical Machines in the power engineering and automatization (Pass)	Lc:30
	Electrical Machines lab (Pass)	Lb:45
	Electrical Measurements, Instrumentation and Signal Transmission Lab (Pass)	Lb:60
	Electric Traction (Exam)	Lc:15 Lb:15
	Electromagnetic Compatibility (Pass)	Lc:15 Lb:15
	High voltage technology Lab (Pass)	Lb:30
	Elective Courses part 1 *	
6	Egzamin C1 Język Angielski (C1 Exam – English) (Pass)	
	Electrical machines in the power engineering and automatization lab (Pass)	Lb:15
	Electromagnetic Fields a (Exam)	Lc:45 Lb:15 E:15
	Introduction to Electrical Power Engineering Lab (Pass)	Lb:30
	Elective Courses part 2 **	
7	Electrical safety (Pass)	Lc:30
	Introduction to Electrical Power Engineering Pro (Pass)	P:30
	Elective Courses part 2 **	
8	Bachelor of Science Thesis (Pass)	
	Diploma Seminar BSc (Pass)	S:30
	Practical Training (Pass)	
	Elective Courses part 2 **	

\* Elective Courses part 1:

Economics

Methods and Making Decision

Intellectual property law

Economics

Methods and Making Decision

Intellectual property law

**\*\* Elective Courses part 2:**

Intelligent machines and systems  
Modelling and simulation of dynamic systems  
Software Engineering 1  
Electric Power Plants  
Introduction to Lighting technology  
Power supply of electrified transport systems  
Power Systems Protection Telecommunication  
Advanced internet programming  
Automotive Electrical Systems  
Control in Power Electronics  
3D computer modeling  
Overhead Lines and Cables  
PLC control systems  
Web Engineering  
Intelligent Buildings  
Laboratory of Lighting Technology  
Computer Graphics  
Computer networks  
System identification and control  
Computer Analysis of Power Systems  
Database Management  
Electric Power Substations  
Electro-heat engineering  
Intelligent Control for Energy Conversion  
Computer simulation of lighting  
Selected Problems in Electrostatics  
Electric Power Substations Project