

Bachelor Degree in Electronics

Course structure

2nd year

Fall Semester

Course	Credits	Coefficient	weekly time load			Time load/semester (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
			Lectures	DW	PW			Continuous Assessment Exam	Exam
Mathematics 3	6	3	3h00	1h30		67h30	82h30	40%	60%
Waves and vibrations	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Electronics 1	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Electro technics 1	4	2	1h30	1h30		45h00	55h00	40%	60%
Probability and statistics	4	2	1h30	1h30		45h00	55h00	40%	60%
Informatics 3	2	1			1h30	22h30	27h30	100%	
WP Electronics 1 and electro technics 1	2	1			1h30	22h30	27h30	100%	
PW Waves and vibrations	1	1			1h00	15h00	10h00	100%	
Etat de l'art du Génie électrique	1	1	1h30			22h30	02h30		100%
Energy and environment	1	1	1h30			22h30	02h30		100%
Technical English	1	1	1h30			22h30	02h30		100%
Total	30	17	13h30	7h30	4h00	375h00	375h00		

Spring Semester

Courses	Credits	Coefficient	weekly time load			Time load/semester (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
			Lectures	DW	PW			Continuous Assessment Exam	Exam
Fundamental Electronics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
Combinational and Sequential Logic	4	2	1h30	1h30		45h00	55h00	40%	60%
Numerical Methods	4	2	1h30	1h30		45h00	55h00	40%	60%
Signal Theory	4	2	1h30	1h30		45h00	55h00	40%	60%
Electrical and Electronic Measurements	3	2	1h30		1h00	37h30	37h30	40%	60%
Lab Work for Fundamental Electronics 2	2	1			1h30	22h30	27h30	100%	
Lab Work for Combinational and Sequential Logic	2	1			1h30	22h30	27h30	100%	
Lab Work for Numerical Methods	2	1			1h30	22h30	27h30	100%	
Electronic Components Technology 1	1	1	1h30			22h30	02h30		100%
Elements of Electronic Component Physics	1	1	1h30			22h30	02h30		100%
Techniques of Expression and Communication	1	1	1h30			22h30	02h30		100%
Total	30	17	13h30	6h00	5h30	375h00	375h00		

3rd year**Fall Semester**

Courses	Credits	Coefficient	weekly time load			Time load/semester (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
			Lectures	DW	PW			Continuous Assessment Exam	Exam
Microprocessor Systems	6	3	3h00	1h30		67h30	82h30	40%	60%
Functions of Electronics	4	2	1h30	1h30		45h00	55h00	40%	60%
Signal Processing	4	2	1h30	1h30		45h00	55h00	40%	60%
Local Computer Networks	4	2	1h30	1h30		45h00	55h00	40%	60%
Lab Work for Microprocessor Systems	2	1			1h30	22h30	27h30	100%	
Lab Work for Functions of Electronics	2	1			1h30	22h30	27h30	100%	
Lab Work for Signal and Local Networks	2	1			1h30	22h30	27h30	100%	
Preliminary Project Work	3	2	1h30		1h00	37h30	37h30	40%	60%
Electronic Components Technology 2	1	1	1h30			22h30	02h30		100%
Technology and Fabrication of Integrated Circuits	1	1	1h30			22h30	02h30		100%
Wave Propagation and Antennas	1	1	1h30			22h30	02h30		100%
	30	17	13h30	6h00	5h30	375h00	375h00		

Spring Semester

Courses	Credits	Coefficient	weekly time load			Time load/semester (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
			Lectures	DW	PW			Continuous Assessment Exam	Exam
Continuous Control Systems and Regulation	6	3	3h00	1h30		67h30	82h30	40%	60%
Sensors and Instrumentation	4	2	1h30	1h30		45h00	55h00	40%	60%
Power Electronics	4	2	1h30	1h30		45h00	55h00	40%	60%
Pulse Electronics	4	2	1h30	1h30		45h00	55h00	40%	60%
End-of-Cycle Project	4	2			3h00	45h00	55h00	100%	
Lab Work for Control Systems and Regulation	2	1			1h30	22h30	27h30	100%	
Lab Work for Sensors and Instrumentation	2	1			1h30	22h30	27h30	100%	
Lab Work for Power Electronics and Pulses	1	1			1h00	15h00	10h00	100%	
Optoelectronic Devices	2	2	3h00			45h00	05h00		100%
Professional Project and Business Management	1	1	1h30			22h30	02h30		100%
	30	17	12h00	6h00	7h00	375h00	375h00		