

Bachelor in Branch: ELECTRONIC ENGINEERING

Speciality: ELECTRONICS

Brief

Electronics at Khemis Miliana University is one of the main branches of technology. This specialty is extremely vast and diversified, with a wide base of applications. The training in electronics allows students to understand the basic principles of analog and digital electronics after a six-semester course that will be sanctioned by a bachelor's degree..

Field	Branch	Speciality
<i>Sciences and Technologies</i>	Electronic engineering	<i>Electronic</i>

First Semester

Teaching unit	Matter	Credit	Coefficient	Course	TD	TP	HV
Fundamental Unit	Mathematics 1	6	3	3h	1h30		67h30
	Physical 1	6	3	3h	1h30		67h30
	Structure of the matter	6	3	3h	1h30		67h30
Methodological unit	PW Physical 1	2	1			1h30	22h30
	PW chemistry 1	2	1			1h30	22h30
	computer science 1	4	1	1h30		1h30	45h
	Methodology of the writing	1	1	1h			15h
Discovery unit	Careers in	1	1	1h30			22h30

Teaching unit	Matter	Credit	Coefficient	Course	TD	TP	HV
	science and technologies 1						
Transversale Unit	Foreign language 1 (French and/or English)	2	2	3h			45h

Second Semester 2

Teaching unit	Matter	Credit	Coefficient	Course	TD	Practical Work	Volume (hour)
Fundamental Unit	Mathematics 2	6	3	3h	1h30		67h30
	Physical 2	6	3	3h	1h30		67h30
	Thermodynamics	6	3	3h	1h30		67h30
Methodological unit	PW Physical 2	2	1			1h30	22h30
	PW chemistry 2	2	1			1h30	22h30
	Computer science2	4	1	1h30		1h30	45h
	Methodology of the presentation	1	1	1h			15h
Discovery unit	Careers in science and technologies 2	1	1	1h30			22h30
Transversale Unit	Foreign language 2(French and/or English)	2	2	3h			45h

Third Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
Fundamental Unit	Mathematics 3	6	3	3h	1h30		67h30
	Waves and vibrations	4	2	1h30	1h30		45h
	Electronics fundamental1	4	2	1h30	1h30		45h
	Electrotechnics fundamental 1	4	2	1h30	1h30		45h
Methodological unit	Probability and statistics	4	2	1h30	1h30		45h
	Computer Science 3	2	1			1h30	22h
	PW Electronics 1 and electrotechnics1	2	1			1h30	22h
	PW Waves and vibrations	1	1			1h	15h
Discovery unit	State of the art in electrical engineering	1	1	1h30			22h30
	Energy and environment	1	1	1h30			22h30
Transversale Unit	Technical English	1	1	1h30			22h30

Fourth semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
Fundamental Unit	Electrical Engineering Basic 2	6	3	3h	1h30		67h30
	Combinatorial and sequential logic	4	2	1h30	1h30		45h
	Numerical methods	4	2	1h30	1h30		45h
	Signal theory	4	2	1h30	1h30		45h
Methodological unit	Electrical and electronic measurements	3	2	1h30		1h	37h30
	PW Electrotechnics fundamental 2	2	1			1h30	22h30
	PW Combinatorial and sequential logic	2	1			1h30	22h30
	PW Numerical Methods	2	1			1h30	22h30
Discovery unit	Production of electrical electric power	1	1	1h30			22h30
	Electrical safety	1	1	1h30			22h30
Transversale Unit	Techniques of expression and communication	1	1	1h30			22h30

Fifth semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
Fundamental Unit	Microprocessor systems	6	3	3h	1h30		67h30
	Functions of Electronics	4	2	1h30	1h30		45h
	Signal processing	4	2	1h30	1h30		45h
	Computer networks premises	4	2	1h30	1h30		45h
Methodological unit	PW Microprocessor systems	2	1			1h30	22h30
	PW Functions of Electronics	2	1			1h30	22h30
	PW Signal and Networks local	2	1			1h30	22h30
	Pre-project work	3	2	1h30		1h30	37h30
Discovery unit	Technology of components components 2	1	1	1h30			22h30
	Wave propagation and Antennas	1	1	1h30			22h30
Transversale Unit	Semiconductor physics	1	1	1h30			22h30

Six Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
Fundamental Unit	Controls and regulation	6	3	3h	1h30		67h30
	Sensors and Instrumentation	4	2	1h30	1h30		45h
	Power electronics	4	2	1h30	1h30		45h
	Pulse electronics	4	2	1h30	1h30		45h
Methodological unit	End of Cycle Project	4	2			3h	45h
	PW Controls and regulation	2	1			1h30	22h30
	PW Sensors and Instrumentation	2	1			1h30	22h30
	PW Power electronics and pulses	1	1			1h	15h
Discovery unit	Devices Optoelectronics	2	2	3			45h
Transversale Unit	Professional Project and Business Management	1	1	1h30			22h30