

Program (modules to be taught)

Semester 3

Teaching Unit	Title	Credits	Coefficient	Weekly Hourly Volume			Semester Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation Method	
				Course	Tutorials	Practical work			Continuous Assessment	Exam
Fundamental TU Code : TUF 2.1.1 Credits : 10 Coefficients : 5	Mathematics 3	6	3	3h00	1h30		67h30	82h30	40%	60%
	Waves and vibrations	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental TU Code : TUF 2.1.2 Credits : 8 Coefficients : 4	Fundamental electronics 1	4	2	1h30	1h30		45h00	55h00	40%	60%
	Fundamental electrotechnics 1	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodology TU Code : TUM 2.1 Credits : 9 Coefficients : 5	Probability and statistics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Informatics 3	2	1			1h30	22h30	27h30	100%	
	Lab : Electronics and Electrotechnics	2	1			1h30	22h30	27h30	100%	
	Lab : Waves and vibrations	1	1			1h00	15h00	10h00	100%	
Discovery TU Code : TUD 2.1 Credits : 2 Coefficients : 2	State of the art of electrical engineering	1	1	1h30			22h30	02h30		100%
	Energies and Environment	1	1	1h30			22h30	02h30		100%
Transversal TU Code : TUT 2.1 Credits : 1 Coefficients : 1	Technical English	1	1	1h30			22h30	02h30		100%
Total semester 3		30	17	13h30	7h30	4h00	375h00	375h00		

Semester 4

Teaching Unit	Title	Credits	Coefficient	Weekly Hourly Volume			Semester Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation Method	
				Course	Tutorials	Practical work			Continuous Assessment	Exam
Fundamental TU Code : TUF 2.2.1 Credits : 10 Coefficients : 5	Fundamental electrotechnics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Combinatorial and sequential logic	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental TU Code : TUF 2.2.2 Credits : 8 Coefficients : 4	Numerical methods	4	2	1h30	1h30		45h00	55h00	40%	60%
	Signal theory	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodology TU Code : TUM 2.2 Credits : 9 Coefficients : 5	Electrical and electronic measurements	3	2	1h30		1h00	37h30	37h30	40%	60%
	Lab : Fundamental electrotechnics 2	2	1			1h30	22h30	27h30	100%	
	Lab : Combinatorial and sequential logic	2	1			1h30	22h30	27h30	100%	
	Lab : Numerical methods	2	1			1h30	22h30	27h30	100%	
Discovery TU Code : TUD 2.2 Credits : 2 Coefficients : 2	Production of electrical energy	1	1	1h30			22h30	02h30		100%
	Electrical safety	1	1	1h30			22h30	02h30		100%
Transversal TU Code : TUT 2.2 Credits : 1 Coefficients : 1	Techniques of expression, information and communication	1	1	1h30			22h30	02h30		100%
Total semester 4		30	17	13h30	6h00	5h30	375h00	375h00		

Semester 5

Teaching Unit	Title	Credits	Coefficient	Weekly Hourly Volume			Semester Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation Method	
				Course	Tutorials	Practical work			Continuous Assessment	Exam
Fundamental TU Code : TUF 3.1.1 Credits : 10 Coefficients : 5	Electrical grids	6	3	3h00	1h30		67h30	82h30	40%	60%
	Power Electronics	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental TU Code : TUF 3.1.2 Credits : 8 Coefficients : 4	Control Systems	4	2	1h30	1h30		45h00	55h00	40%	60%
	Electromagnetic Field Theory	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodology TU Code : TUM 3.1 Credits : 9 Coefficients : 5	Electrical diagrams and equipment	3	2	1h30		1h00	37h30	37h30	40%	60%
	Lab : Electrical grids	2	1			1h30	22h30	27h30	100%	
	Lab : Power Electronics	2	1			1h30	22h30	27h30	100%	
	Lab : Control Systems/ Sensors	2	1			1h30	22h30	27h30	100%	
Discovery TU Code : TUD 3.1 Credits : 2 Coefficients : 2	Sensors and Metrology	1	1	1h30			22h30	02h30		100%
	Electrical systems design	1	1	1h30			22h30	02h30		100%
Transversal TU Code : TUT 3.1 Credits : 1 Coefficients : 1	Simulation software	1	1	1h30			22h30	02h30		100%
Total semester 5		30	17	13h30	6h00	5h30	375h00	375h00		

Semester 6

Teaching Unit	Title	Credits	Coefficient	Weekly Hourly Volume			Semester Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation Method	
				Course	Tutorials	Practical work			Continuous Assessment	Exam
Fundamental TU Code : TUF 3.2.1 Credits : 10 Coefficients : 5	Control of electrical machines	6	3	3h00	1h30		67h30	82h30	40%	60%
	Industrial regulation	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental TU Code : TUF 3.2.2 Credits : 8 Coefficients : 4	Industrial Automation	4	2	1h30	1h30		45h00	55h00	40%	60%
	Materials and Introduction to High Voltage	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodology TU Code : TUM 3.2 Credits : 9 Coefficients : 5	End of Cycle Project	4	2			3h00	45h00	55h00	100%	
	Lab : Control of electrical machines	1	1			1h00	15h00	10h00	100%	
	Lab : Industrial regulation	2	1			1h30	22h30	27h30	100%	
	Lab : Automation/Materials and High Voltage	2	1			1h30	22h30	27h30	100%	
Discovery TU Code : TUD 3.2 Credits : 2 Coefficients : 2	Protection of electrical grids	1	1	1h30			22h30	02h30		100%
	Industrial maintenance	1	1	1h30			22h30	02h30		100%
Transversal TU Code : TUT 3.2 Credits : 1 Coefficients : 1	Entrepreneurship and company management	1	1	1h30			22h30	02h30		100%
Total semester 6		30	17	12h00	6h00	7h00	375h00	375h00		