

3. Program (Taught modules)

🚩 Semeser 1

Teaching unit	Contents	Credits	Coefficient	Weekly hourly volume			Semiannual timetable volume (15 weeks)	Complementary Work in Consultation (15 weeks)	Evaluation mode	
	Entitled			Lesson	DW	PW			Continuus Control	Exam
Fundamental Unity Code : FU 1.1.1 Credits: 10 Coefficients: 5	Modeling and simulation of electrical machines	4	2	1h30	1h30		45h00	55h00	40%	60%
	Advanced power electronics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Industrial electrical networks	2	1	1h30			22h30	27h30		100%
Fundamental Unity Code: FU 1.1.2 Credits: 8 Coefficients: 4	Industrial mechanisms and power transmission	4	2	1h30	1h30		45h00	55h00	40%	60%
	Hydraulic and pneumatic machines	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodologic al Unit Code: MU 1.1	PW Modeling and simulation of electrical machines	2	1			1h30	22h30	27h30	100%	
	PW Advanced power electronics	2	1			1h30	22h30	27h30	100%	

Credits: 9 Credits: 5 Coefficients : 5	PW Industrial electrical networks	2	1			1h30	22h30	27h30	100%	
	PW Industrial mechanisms and power transmission	2	1			1h30	22h30	27h30	100%	
	PW Hydraulic and pneumatic machines	1	1			1h30	15h00	10h00	100%	
Discovery Unit Code: DU 1.1 Credits: 2 Coefficients: 2	Sensors and instrumentation	1	1	1h30			22h30	02h30		100%
	Cold and air conditioning	1	1	1h30			22h30	02h30		100%
Transversal Unit Code: TU 1.1 Credits: 1 Coefficients: 1	Technical English and terminology	1	1	1h30			22h30	02h30		100%
Total semester 1		30	17	12h00	6h00	7h00	375h00	375h00		

✚ Semeser 2

Teaching unit	Contents	Credits	Coefficient	Weekly hourly volume			Semiannual timetable volume (15 weeks)	Complementary Work in Consultation (15 weeks)	Evaluation mode	
	Entitled			Lesson	DW	PW			Continuus Control	Exam
Fundamental	Control of electric	4	2	1h30	1h3		45h00	55h00	40%	60%

Unity Code : FU 1.2.1 Credits : 8 Coefficients : 4	machines				0					
	Hydraulic and pneumatic control	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Unity Code : FU 1.2.2 Credits : 10 Coefficients : 5	Applied thermodynamics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Applied fluid mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Diagnosis and monitoring	2	1	1h30			22h30	27h30		100%
Methodological Unit Code : MU 1.2 Credits : 9 Coefficients : 5	PW Control of electric machines	2	1			1h30	22h30	27h30	100%	
	PW Hydraulic and pneumatic control	2	1			1h30	22h30	27h30	100%	
	PW Applied thermodynamics	2	1			1h30	22h30	27h30	100%	
	Numerical methods applied	3	2	1h30		1h00	37h30	37h30	40%	60%
Discovery Unit Code : DU 1.2 Credits : 2 Coefficients : 2	Exploitation of renewable energies	1	1	1h30			22h30	02h30		100%
	Reliability of systems	1	1	1h30			22h30	02h30		100%
Transversal		1	1	1h30			22h30	02h30		100%

Unit Code : TU 1.2 Crédits : 1 Coefficients : 1	Ethics and intellectual property									
Total semester 2		30	17	12h00	6h00	7h00	375h00	375h00		

🚩 Semeser 3

Teaching unit	Contents	Credits	Coefficient	Weekly hourly volume			Semiannual timetable volume (15 weeks)	Complementary Work in Consultation (15 weeks)	Evaluation mode	
	Entitled			Lesson	DW	PW			Continuous Control	Exam
Fundamental Unity Code : FU 2.2.1 Credits : 10 Coefficients : 5	Modeling and simulation of electromechanical systems	6	3	3h00	1h30		67h30	82h30	40%	60%
	Advanced control techniques	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Unity Code : FU 2.1.2 Credits : 8	Microprocessors and API	4	2	1h30	1h30		45h00	55h00	40%	60%
	Organization and management of industrial	4	2	1h30	1h30		45h00	55h00	40%	60%

Coefficients : 4	maintenance									
Methodologic al Unit Code : MU 2.1 Crédits : 9 Coefficients : 5	PW Modeling and simulation of electromechanical systems	2	1			1h3 0	22h30	27h30	100%	
	PW Advanced control techniques	2	1			1h3 0	22h30	27h30	100%	
	PW Microprocessors and API	2	1			1h3 0	22h30	27h30	100%	
	Computer Aided Manufacturing Design CAMD	3	2	1h30		1h0 0	37h30	37h30	40%	60%
Discovery Unit Code : DU 2.1 Crédits : 2 Coefficients : 2	Special electrical machines	1	1	1h30			22h30	02h30		100%
	Industrial Security	1	1	1h30			22h30	02h30		100%
Transversal Unit Code : TU 2.1 Crédits : 1 Coefficients : 1	Documentary research and memory design	1	1	1h30			22h30	02h30		100%
Total semester 3		30	17	12h0 0	6h0 0	7h0 0	375h00	375h00		