

Semester 1

Teaching Unit	Subjects	Credits	Coefficient	Weekly Hourly Volume		
	Title			Lecture	TU	PW
Fundamental Teaching Unit Code: UEF 1.1 Credits: 18 Coefficients: 9	Mathematics 1	6	3	3h00	1h30	
	Physics 1	6	3	3h00	1h30	
	Structure of Matter	6	3	3h00	1h30	
Methodological Teaching Unit Code: UEM 1.1 Credits: 9 Coefficients: 5	Physics Lab 1	2	1			1h30
	Chemistry Lab 1	2	1			1h30
	Computer Science 1	4	2	1h30		1h30
	Writing Methodology	1	1	1h00		
Discovery Teaching Unit Code: UED 1.1 Credits: 1 Coefficients: 1	Careers in Science and Technology 1	1	1	1h30		
Transversal Teaching Unit Code: UET 1.1 Credits: 2 Coefficients: 2	English	2	2	3h00		
Total Semester 1		30	17	16h00	4h30	4h30

Semester 2

Teaching Unit	Subjects	Credits	Coefficient	Weekly Hourly Volume		
	Title			Lecture	TU	PW
Fundamental Teaching Unit Code: UEF 1.1 Credits: 18 Coefficients: 9	Mathematics 2	6	3	3h00	1h30	
	Physics 2	6	3	3h00	1h30	
	Thermodynamics	6	3	3h00	1h30	
Methodological Teaching Unit Code: UEM 1.1 Credits: 9 Coefficients: 5	Physics Lab 2	2	1			1h30
	Chemistry Lab 2	2	1			1h30
	Computer Science 2	4	2	1h30		1h30
	Presentation Methodology	1	1	1h00		
Discovery Teaching Unit Code: UED 1.1 Credits: 1 Coefficients: 1	Careers in Science and Technology 2	1	1	1h30		
Transversal Teaching Unit Code: UET 1.1 Credits: 2 Coefficients: 2	English	2	2	3h00		
Total Semester 2		30	17	16h00	4h30	4h30

Semester 3

Teaching Unit	Subjects	Credits	Coefficient	Weekly Hourly Volume		
	Title			Lecture	TU	PW
Fundamental Teaching Unit Code : UEF 2.1.1 Credits : 10 Coefficients : 5	Mathematics 3	6	3	3h00	1h30	
	Waves and Vibrations	4	2	1h30	1h30	
Fundamental Teaching Unit Code : UEF 2.1.2 Credits : 8 Coefficients : 4	Fundamental Electronics 1	4	2	1h30	1h30	
	Fundamental Electrical Engineering 1	4	2	1h30	1h30	
UE Méthodologique Code : UEM 2.1 Credits : 9 Coefficients : 5	Probability and Statistics	4	2	1h30	1h30	
	Computer Science 3	2	1			1h30
	Electronics and Electrical Engineering Lab	2	1			1h30
	Waves and Vibrations Lab	1	1			1h00
UE Découverte Code : UED 2.1 Credits : 2 Coefficients : 2	State of the Art in Electrical Engineering	1	1	1h30		
	Energy and Environment	1	1	1h30		
UE Transversale Code : UET 2.1 Credits : 1 Coefficients : 1	Technical English	1	1	1h30		
Total Semester 3		30	17	13h30	7h30	4h00

Semester 4

Teaching Unit	Title	Credits	Coefficient	Weekly Hourly Volume		
				Lecture	TU	PW
Fundamental Teaching Unit Code : UEF 2.2.1 Credits : 10 Coefficients : 5	Linear and Continuous Control Systems	6	3	3h00	1h30	
	Combinational and Sequential Logic	4	2	1h30	1h30	
Fundamental Teaching Unit Code : UEF 2.2.2 Credits : 8 Coefficients : 4	Numerical Methods	4	2	1h30	1h30	
	Signal Theory	4	2	1h30	1h30	
UE Méthodologique Code : UEM 2.2 Credits : 9 Coefficients : 5	Electrical and Electronic Measurements	3	2	1h30		1h00
	Linear and Continuous Control Systems Lab	2	1			1h30
	Combinational and Sequential Logic Lab	2	1			1h30
	Numerical Methods Lab	2	1			1h30
UE Découverte Code : UED 2.2 Credits : 2 Coefficients : 2	Automated Systems Architecture	1	1	1h30		
	Electrical Safety	1	1	1h30		
UE Transversale Code : UET 2.2 Credits : 1 Coefficients : 1	Expression and Communication Techniques	1	1	1h30		
Total Semester 4		30	17	13h30	6h00	5h30

Semester 5

Teaching Unit	Title	Credits	Coefficient	Weekly Hourly Volume		
				Lecture	TU	PW
Fundamental Teaching Unit Code : UEF 3.1.1 Credits : 10 Coefficients : 5	Control of Linear Systems	4	2	1h30	1h30	
	Power Electronics	4	2	1h30	1h30	
	Modeling and System Identification	2	1	1h30		
Fundamental Teaching Unit Code : UEF 3.1.2 Credits : 8 Coefficients : 4	Microprocessors and Microcontrollers	6	3	3h00	1h30	
	C++ Programming	2	1	1h30		
UE Méthodologique Code : UEM 3.1 Credits : 9 Coefficients : 5	Control of Linear Systems Lab	2	1			1h30
	Power Electronics Lab	2	1			1h30
	Modeling and System Identification Lab	2	1			1h30
	Microprocessors and Microcontrollers Lab	2	1			1h30
	C++ Programming Lab	1	1			1h00
UE Découverte Code : UED 3.1 Credits : 2 Coefficients : 2	Standards and Certification	1	1	1h30		
	Renewable Energy: Production and Storage	1	1	1h30		
UE Transversale Code : UET 3.1 Credits : 1 Coefficients : 1	English for Automation	1	1	1h30		
Total Semester 5		30	17	13h30	4h30	7h00

Semester 6

Teaching Unit	Title	Credits	Coefficient	Weekly Hourly Volume		
				Cours	TD	TP
Fundamental Teaching Unit Code : UEF 3.2.1 Credits : 10 Coefficients : 5	Sampled Data Control Systems	4	2	1h30	1h30	
	Actuators	4	2	1h30	1h30	
	Sensors and Measurement Chains	2	1	1h30		
Fundamental Teaching Unit Code : UEF 3.2.2 Credits : 8 Coefficients : 4	Programmable Logic Controllers (PLCs)	6	3	3h00	1h30	
	Communication Buses and Industrial Networks	2	1	1h30		
UE Méthodologique Code : UEM 3.2 Credits : 9 Coefficients : 5	End-of-Cycle Project	4	2			3h00
	Sensors and Actuators Lab	2	1			1h30
	Programmable Logic Controllers (PLCs) Lab	2	1			1h30
	Communication Buses and Industrial Networks Lab	1	1			1h00
UE Découverte Code : UED 3.2 Credits : 2 Coefficients : 2	Electrical Installations in Automation	1	1	1h30		
	Maintenance and Reliability	1	1	1h30		
UE Transversale Code : UET 3.2 Credits : 1 Coefficients : 1	Partnership	1	1	1h30		
Total Semester 6		30	17	13h30	4h30	7h00