

II – Half-yearly organization sheets for the specialty **courses**

Semester 1

Unit teaching	Materials	Credits	Coefficient	Hourly volume weekly			Volume Hourly Biannual (15 weeks)	Work Complementary in consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 1.1 Credits: 18 Coefficients: 9	Mathematics 1	6	3	3h00	1h30		67h30	82h30	40%	60%
	Physics 1	6	3	3h00	1h30		67h30	82h30	40%	60%
	Structure of matter	6	3	3h00	1h30		67h30	82h30	40%	60%
Methodological EU Code: UEM 1.1 Credits: 9 Coefficients: 5	Physics 1 Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
	Chemistry 1 practical work	2	1			1h30	10:30 p.m.	27:30	100%	
	Computer Science 1	4	2	1h30		1h30	45h00	55h00	40%	60%
	Writing methodology	1	1	1h00			3:00 p.m.	10:00 a.m.		100%
EU Discovery Code: UED 1.1 Credits: 1 Coefficients: 1	Careers in Science and Technologies 1	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
E Transversal Code: UET 1.1 Credits: 2 Coefficients: 2	Ethical and deontological dimension (the foundations)	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Foreign language 1 (French or English)	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 1		30	17	4h00	4h30	4h30	375 hours	375 hours		

Semester 2

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Hourly Volume Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 1.2 Credits: 18 Coefficients: 9	Mathematics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Physics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Thermodynamics	6	3	3h00	1h30		67h30	82h30	40%	60%
Methodological EU Code: UEM 1.2 Credits: 9 Coefficients: 5	Physics 2 Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
	Chemistry 2 practical work	2	1			1h30	10:30 p.m.	27:30	100%	
	Computer Science 2	4	2	1h30		1h30	45h00	55h00	40%	60%
	Presentation methodology	1	1	1h00			3:00 p.m.	10:00 a.m.		100%
EU Discovery Code: UED 1.2 Credits: 1 Coefficients: 1	Careers in science and technology 2	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 1.2 Credits: 2 Coefficients: 2	Foreign language 2 (French and/or English)	2	2	3h00			45h00	5:00 a.m.		100%
Total semester 2		30	17	4h00	4h30	4h30	375 hours	375 hours		

Semester 3

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Volume Hourly Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 2.1.1 Credits: 10 Coefficients: 5	Mathematics 3	6	3	3:00 a.m. to 1:30 a.m.			67h30	82h30	40%	60%
	Waves and vibrations	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 2.1.2 Credits: 8 Coefficients: 4	Fluid mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Rational mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological EU Code: UEM 2.1 Credits: 9 Coefficients: 5	Probability and statistics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Computer Science 3	2	1			1h30	10:30 p.m.	27:30	100%	
	Technical drawing	2	1			1h30	10:30 p.m.	27:30	100%	
	TP Waves and vibrations	1	1			1 hour	3:00 p.m.	10:00 a.m.	100%	
EU Discovery Code: UED 2.1 Credits: 2 Coefficients: 2	Basic technology	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Metrology	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 2.1 Credits: 1 Coefficients: 1	Technical English	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 3		30	17	1:30 p.m. 7:30 a.m. 4:00 a.m.			375 hours	375 hours		

Semester 4

Teaching unit	Materials	Credits		Weekly hourly volume			Hourly Volume Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 2.2.1 Credits: 6 Coefficients: 3	Thermodynamics 2	4	2	1h30	1h30		45h00	55h00	40%	60%
	Mechanical Manufacturing	2	1	1h30			10:30 p.m.	27:30		100%
Fundamental EU Code: UEF 2.2.2 Credits: 8 Coefficients: 4	Mathematics 4	4	2	1h30	1h30		45h00	55h00	40%	60%
	Numerical methods	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 2.2.3 Credits: 4 Coefficients: 2	Resistance of materials	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological EU Code: UEM 2.2 Credits: 9 Coefficients: 5	Drawing Assisted by Computer	2	1			1h30	10:30 p.m.	27:30	100%	
	Practical work on fluid mechanics	2	1			1h30	10:30 p.m.	27:30	100%	
	Numerical Methods Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
	Practical work on resistance of materials	1	1			1 hour	3:00 p.m.	10:00 a.m.	100%	
	Mechanical Manufacturing TP	2	1			1h30	10:30 p.m.	27:30	100%	
EU Discovery Code: UED 2.2 Credits: 2 Coefficients: 2	Industrial electricity	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Materials Sciences	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 2.2 Credits: 1 Coefficients: 1	Techniques of expression, information and communication	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 4		30	17	12:00	6:00	7:00	375 hours	375 hours		

Semester 5

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Hourly Volume Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 3.1.1 Credits: 10 Coefficients: 5	Fluid Mechanics 2	6	3	3h	00	1h30	67h30	82h30	40%	60%
	Heat transfer 1	4	2	1h	30	1h30	45h00	55h00	40%	60%
Fundamental EU Code: UEF 3.1.2 Credits: 8 Coefficients: 4	Turbomachines 1	4	2	1h	30	1h30	45h00	55h00	40%	60%
	Energy conversion	4	2	1h	30	1h30	45h00	55h00	40%	60%
Methodological EU Code: UEM 3.1 Credits: 9 Coefficients: 5	Heat Transfer TP	2	1			1h30	10:30 p.m.	27:30	100%	
	TP Turbomachines 1	2	1			1h30	10:30 p.m.	27:30	100%	
	Energy Conversion TP	2	1			1h30	10:30 p.m.	27:30	100%	
	Measurement and instrumentation	3	2	1h	30	1 hour	37h30	37h30	40%	60%
EU Discovery Code: UED 3.1 Credits: 2 Coefficients: 2	Concept of machine elements	1	1	1h	30		10:30 p.m.	2:30 a.m.		100%
	Regulation and enslavement	1	1	1h	30		10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 3.1 Credits: 1 Coefficients: 1	Environment and sustainable development	1	1	1h	30		10:30 p.m.	2:30 a.m.		100%
Total semester 5		30	17	1	30	p.m. 6:00 a.m. 5:30 a.m.	375 hours	375 hours		

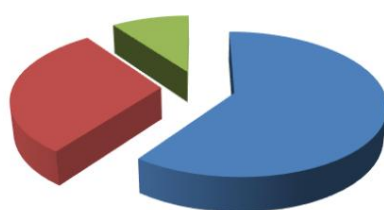
Semester 6

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Volume Hourly Biannual (15 weeks)	Work Complementary in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Control Continuous	Exam
Fundamental EU Code: UEF 3.2.1 Credits: 10 Coefficients: 5	Turbomachines 2	6	3	3h00	1h30		67h30	82h30	40%	100%
	Combustion engines internal	4	2	1h30	1h30		45h00	55h00	40%	100%
Fundamental EU Code: UEF 3.2.2 Credits: 8 Coefficients: 4	Refrigeration machines and heat pumps	4	2	1h30	1h30		45h00	55h00	40%	100%
	Heat transfer 2	4	2	1h30	1h30		45h00	55h00	40%	100%
Methodological EU Code: UEM 3.2 Credits: 9 Coefficients: 5	End of Cycle Project	4	2			3:00 a.m.	45h00	55h00	100%	
	TP Refrigerating Machines and heat pumps	2	1			1h30	10:30 p.m.	27:30	100%	
	Internal combustion engine TP	1	1			1 hour	3:00 p.m.	10:00 a.m.	100%	
	TP regulation and control	2	1			1h30	10:30 p.m.	27:30	100%	
EU Discovery Code: UED 3.2 Credits: 2 Coefficients: 2	Renewable energies	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
	Cryogenics	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal EU Code: UET 3.2 Credits: 1 Coefficients: 1	Entrepreneurship and business management	1	1	1h30			10:30 p.m.	2:30 a.m.	100%	
Total semester 6		30	17	12:00	6:00	7:00	375 hours	375 hours		

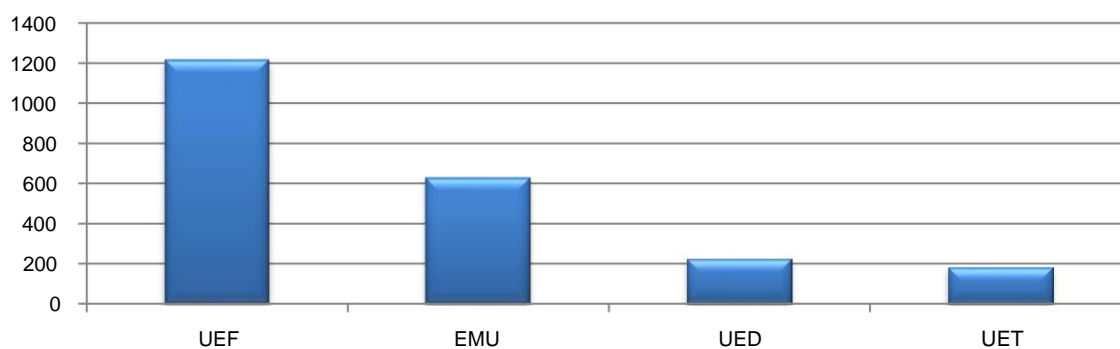
The assessment methods presented in these tables are given for information purposes only; the establishment's training team may suggest other weightings.

Overall training summary:

VH \ EU	UEF	EMU	UED	UET	Total
Course	720h00	120h00	225h00	6:00 p.m.	1245h00
TD	495h00	10:30 p.m.	---	---	5:17 p.m.
TP	---	487h30	---	---	487h30
Personal work	1485h00	720h00	25h00	8:00 p.m.	2250h00
Other (specify)	---	---	---	---	---
Total	2700h00	1350h00	250h00	8:00 p.m.	4500h00
Credits	108	54	10	8	180
% in credits for each EU	60%	30%	10%		100%

Teaching unit credits

- Fundamental Units 60%
- Methodological units 30%
- Discovery Units and transverse 10%

Hourly volume of face-to-face time**Total hourly volume**