

Semester1

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Title			Course	DW	PW			Continuous Assessment	Exam
TU Fondamental Code : UEF 1.1 Credits : 18 Coefficient : 9	Mathematics 1	6	3	3h00	1h30		67h30	82h30	40%	60%
	Physical 1	6	3	3h00	1h30		67h30	82h30	40%	60%
	Structure of matter	6	3	3h00	1h30		67h30	82h30	40%	60%
TU Methodological Code : UEM 1.1 Credits : 9 Coefficient: 5	PW Physical 1	2	1			1h30	22h30	27h30	100%	
	PW Chemistry 1	2	1			1h30	22h30	27h30	100%	
	Computer science 1	4	2	1h30		1h30	45h00	55h00	40%	60%
	Writing methodology	1	1	1h00			15h00	10h00		100%
TU Discovery Code : TUD 1.1 Credits : 1 Coefficient: 1	Careers in science and technology 1	1	1	1h30			22h30	02h30		100%
TU Transverse Code : TUT 1.1 Credits : 2 Coefficient: 2	Foreign Language 1 (French and/or English)	2	2	3h00			45h00	05h00		100 %
Total semester 1		30	17	16h00	4h30	4h30	375h00	375h00		

Semester 2

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Title			Course	DW	PW			Title	Examen
TU Fondamental Code : UEF 1.2 Credits : 18 Coefficient : 9	Mathematics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Physical 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Thermodynamics	6	3	3h00	1h30		67h30	82h30	40%	60%
TU Methodological Code : UEM 1.2 Credits : 9 Coefficient: 5	PW Physical 2	2	1			1h30	22h30	27h30	100%	
	PW Chemistry 2	2	1			1h30	22h30	27h30	100%	
	Computer science 2	4	2	1h30		1h30	45h00	55h00	40%	60%
	Presentation methodology	1	1	1h00			15h00	10h00		100%
TU Discovery Code : TUD 1.2 Credits : 1 Coefficient: 1	Careers in science and technology 2	1	1	1h30			22h30	02h30		100%
TU Transverse Code : TUT 1.2 Credits : 2 Coefficient: 2	Foreign Language 2 (French and/or English)	2	2	3h00			45h00	05h00		100 %
Total semestre 2		30	17	16h00	4h30	4h30	375h00	375h00		

Semester 3

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Title			Course	DW	PW			Title	Examen
TU Fondamental Code : UEF 2.1 Credits : 10 Coefficient : 5	Mathematics 3	6	3	3h00	1h30		67h30	82h30	40%	60%
	Waves and vibrations	4	2	1h30	1h30		45h00	55h00	40%	60%
TU Fondamental Code : UEF 2.2 Credits : 8 Coefficient : 4	Fluid mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Rational mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
TU Methodological Code : UEM 2.1 Credits : 9 Coefficient: 5	Probability and statistics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Computer science 3	2	1			1h30	22h30	27h30	100%	
	Technical drawing	2	1			1h30	22h30	27h30	100%	
	PW Waves and vibrations	1	1			1h00	15h00	10h00	100%	
TU Discovery Code : TUD 2.1 Credits : 2 Coefficient: 2	Basic technology	1	1	1h30			22h30	02h30		100%
	Metrology	1	1	1h30			22h30	02h30		100%
TU Transverse Code : UEM 2.1 Credits : 1 Coefficient: 1	Technical English	1	1	1h30			22h30	02h30		100%
Total semester 3		30	17	13h30	7h30	4h00	375h00	375h00		

Semester 4

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Title			Course	DW	PW			Title	Examen
TU Fondamental Code : UEF 2.2.1 Credits : 6 Coefficient : 3	Thermodynamics 2	4	2	1h30	1h30		45h00	55h00	40%	60%
	Mechanical Manufacturing	2	1	1h30			22h30	27h30		100%
TU Fondamental Code : UEF 2.2.2 Credits : 8 Coefficient : 4	Mathematics 4	4	2	1h30	1h30		45h00	55h00	40%	60%
	Numerical methods	4	2	1h30	1h30		45h00	55h00	40%	60%
TU Fondamental Code : UEF 2.2.3 Credits : 4 Coefficient : 2	Resistance of materials	4	2	1h30	1h30		45h00	55h00	40%	60%
TU Methodological Code : UEM 2.1 Credits : 9 Coefficient: 5	Computer Aided Design	2	1			1h30	22h30	27h30	100%	
	PW Fluid mechanics	2	1			1h30	22h30	27h30	100%	
	PW Numerical methods	2	1			1h30	22h30	27h30	100%	
	PW Resistance of materials	1	1			1h00	15h00	10h00	100%	
	PW Mechanical Manufacturing	2	1			1h30	22h30	27h30	100%	
TU Discovery Code : TUD 2.1 Credits : 2 Coefficient: 2	Industrial electricity	1	1	1h30			22h30	02h30		100%
	Materials Sciences	1	1	1h30			22h30	02h30		100%
TU Transverse Code : UEM 2.1 Credits : 1 Coefficient: 1	Expression and communication techniques	1	1	1h30			22h30	02h30		100%
Total semester 4		30	17	12h00	6h00	7h00	375h00	375h00		

Semester 5

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Title			Course	DW	PW			Title	Examen
TU Fondamental Code : UEF 3.1.1 Credits : 10 Coefficient : 5	Fluid mechanics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Heat Transfert 1	4	2	1h30	1h30		45h00	55h00	40%	60%
TU Fondamental Code : UEF 3.1.2 Credits : 8 Coefficient : 4	Turbomachines 1	4	2	1h30	1h30		45h00	55h00	40%	60%
	Energy conversion	4	2	1h30	1h30		45h00	55h00	40%	60%
TU Methodological Code : UEM 3.1 Credits : 9 Coefficient: 5	PW Heat Transfert	2	1			1h30	22h30	27h30	100%	
	PW Turbomachines 1	2	1			1h30	22h30	27h30	100%	
	PW Energy conversion	2	1			1h30	22h30	27h30	100%	
	Measurement and instrumentation	3	2	1h30		1h00	37h30	37h30	40%	60%
TU Discovery Code : TUD 3.1 Credits : 2 Coefficient: 2	Concept of machine elements	1	1	1h30			22h30	02h30		100%
	Regulation and control	1	1	1h30			22h30	02h30		100%
TU Transverse Code : UEM 2.1 Credits : 1 Coefficient: 1	Environment and sustainable development	1	1	1h30			22h30	02h30		100%
Total semester 5		30	17	13h30	6h00	5h30	375h00	375h00		

Semester 6

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Title			Course	DW	PW			Title	Examen
TU Fondamental Code : UEF 3.2.1 Credits : 10 Coefficient : 5	Turbomachines 2	6	3	3h00	1h30		67h30	82h30	40%	100%
	Internal combustion engines	4	2	1h30	1h30		45h00	55h00	40%	100%
TU Fondamental Code : UEF 3.2.2 Credits : 8 Coefficient : 4	Refrigeration machines and heat pumps	4	2	1h30	1h30		45h00	55h00	40%	100%
	Heat Transfert 2	4	2	1h30	1h30		45h00	55h00	40%	100%
TU Methodological Code : UEM 3.1 Credits : 9 Coefficient: 5	End-of-Cycle Project	4	2			3h00	45h00	55h00	100%	
	PW Refrigeration Machines and Heat Pumps	2	1			1h30	22h30	27h30	100%	
	PW Internal Combustion Engines	1	1			1h00	15h00	10h00	100%	
	PW Regulation and control	2	1			1h30	22h30	27h30	100%	
TU Discovery Code : TUD 3.1 Credits : 2 Coefficient: 2	Renewable energies	1	1	1h30			22h30	02h30		100%
	Cryogenics	1	1	1h30			22h30	02h30		100%
TU Transverse Code : UEM 2.1 Credits : 1 Coefficient: 1	Professional Project and Business Management	1	1	1h30			22h30	02h30	100%	
Total semester 6		30	17	12h00	6h00	7h00	375h00	375h00		