

Semester 1

Unit teaching	Materials	Crédits	Coefficient	Weekly hourly volume			Semi-annual timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Classes	TW	PW			Continuou s monitoring	Exam
UT Fundamentals Code : UTF 1.1 Credits : 18 Coefficients : 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%
UT Méthodologique Coded : UTM 1.1 Credits : 9 Coefficients : 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%
UT Discovery Coded : UTD 1.1 Credits : 1 Coefficients : 1	Careers in Science and Technology 1	1	1	1h30			22h30	02h30		100%
UT Transversale Coded : UTT 1.1 Credits : 2 Coefficients : 2	Foreign language 1 (French and / or English)	2	2	3h00			45h00	05h00		100 %
Total semestre 1		30	17	16h00	4h30	4h30	375h00	375h00		

Semester 2

Unit teaching	Materials	Crédits	Coefficient	Weekly hourly volume			Semi-annual timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Classes	TW	PW			Continuou s monitoring	Exam
UT Fundamental Coded : UTF 1.2 Credits : 18 Coefficients : 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%
UT Méthodologique Coded : UTM 1.2 Credits : 9 Coefficients : 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%
UT Découverte Coded : UTD 1.2 Credits : 1 Coefficients : 1	Careers in Science and Technology 2	1	1	1h30			22h30	02h30		100%
UT Transversale Coded : UTT 1.2 Credits : 2 Coefficients : 2	Foreign language 2 (French and / or English)	2	2	3h00			45h00	05h00		100 %
Total semestre 2		30	17	16h00	4h30	4h30	375h00	375h00		

4.

Annex to the undergraduate program: Energetics
Sector: Mechanical Engineering
Field: Science and Technology /Semestre 3

Unit teaching	Materials	Credits	Coefficient	Weekly hourly volume			Semi-annual timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Classes	TW	PW			Continuou s monitoring	Exam
UT Fundamental Coded : UTF 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%
UT Fondamentale Coded: UTF 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%
UT Methodological Coded : UTM 2.1 Credits: 9 Coefficients : 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%	
UT Discovery Coded : UTD 2.1 Credits: 2 Coefficients : 2	Basic technology	1	1	1h30			22h30	02h30		100%
	Metrology	1	1	1h30			22h30	02h30		100%
UT Transversal Coded : UTT 2.1 Credits : 1 Coefficients : 1	Technical English	1	1	1h30			22h30	02h30		100%
Total semestre 3		30	17	13h30	7h30	4h00	375h00	375h00		

5.

Semestre 4

Unit Teaching	Materials	Credits	Coefficient	Weekly hourly volume			Semi-annual timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Cours	TW	PW			Continuou s monitoring	Exam
UT Fundamental Coded : UTF 2.2.1 Credits : 6 Coefficients : 3	Thermodynamics 2	4	2	1h30	1h30		45h00	55h00	40%	60%
	Mechanical manufacturing	2	1	1h30			22h30	27h30		100%
UT Fundamental Coded : UTF 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%
UT Fondamentale Coded : UTF 2.2.3 Credits : 4 Coefficients : 2	Strength of materials	4	2	1h30	1h30		45h00	55h00	40%	60%
UT Methodological Coded : UTM 2.2 Credits : 9 Coefficients : 5	Computer Assisted drawing	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 Strength of materials	1	1			1h00	15h00	10h00	100%	

	PW Mechanical manufacturing	2	1			1h30	22h30	27h30	100%	
UT Discovery	industrial electricity	1	1	1h30			22h30	02h30		100%
Coded : UTD 2.2										
Credits : 2	Materials sciences	1	1	1h30			22h30	02h30		100%
Coefficients : 2										
UT Transversal										
Coded : UTT 2.2	Techniques of expression and communication	1	1	1h30			22h30	02h30		100%
Credits : 1										
Coefficients : 1										
Total semestre 4		30	17	12h00	6h00	7h00	375h00	375h00		

Annex to the undergraduate program: Energetics
Sector: Mechanical Engineering
Field: Science and Technology
Semestre 5

Unit teaching	Materials	Credits	Coefficient	Weekly hourly volume			Semi-annual timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Classes	TW	PW			Continuous monitoring	Exam
UE Fundamental Coded : UTF 3.1.1 Credits : 10 Coefficients : 5	Fluid mechanics 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Heat transfer 1	4	2	1h30	1h30		45h00	55h00	40%	60%
UT Fundamental Coded : UTF 3.1.2 Credits: 8 Coefficients : 4	Turbomachines 1	4	2	1h30	1h30		45h00	55h00	40%	60%
	Energy conversion	4	2	1h30	1h30		45h00	55h00	40%	60%
UT Methodological Coded : UTM 3.1 Credits : 9 Coefficients : 5	PW Heat transfer	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%
UT Discovery	Concept of machine elements	1	1	1h30			22h30	02h30		100%

Coded : UTD 3.1 Credits : 2 Coefficients : 2	Notions of Controlled Systems	1	1	1h30			22h30	02h30		100%
UT Transversal Coded : UTT 3.1 Credits : 1 Coefficients : 1	Environment and Sustainable Development	1	1	1h30			22h30	02h30		100%
Total semestre 5		30	17	13h30	6h00	5h30	375h00	375h00		

Annex to the undergraduate program: Energetics
Sector: Mechanical Engineering
Field: Science and Technology / Semester 6

Unit teaching	Materials	Credits	Coefficient	Weekly hourly volume			Semi-annual timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Classes	TW	PW			Continuous monitoring	Exam
UT Fundamental Coded : UTF 3.2.1 Credits : 10 Coefficients : 5	Turbomachines 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Internal combustion engines	4	2	1h30	1h30		45h00	55h00	40%	60%
UT Fundamental	Refrigeration machines and heat	4	2	1h30	1h30		45h00	55h00	40%	60%

Coded : UTF 3.2.2 Credits : 8 Coefficients : 4	pumps									
	Heat transfe 2	4	2	1h30	1h30		45h00	55h00	40%	60%
UT Methodological Coded : UTM 3.2 Credits : 9 Coefficients : 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%	
UT Discovery Coded : UTD 3.2 Credits : 2 Coefficients : 2	Renewable energies	1	1	1h30			22h30	02h30		100%
	Cryogenics	1	1	1h30			22h30	02h30		100%
UT Transversal Coded : UTT 3.2 Credits : 1 Coefficients : 1	Professional project and business management	1	1	1h30			22h30	02h30		100%
Total semestre 6		30	17	12h00	6h00	7h00	375h00	375h00		