emester 1

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Titled	Examen
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	22h30	27h30	100%	
	Chemistry 1 practical work	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%
EU Discovery Code: UED 1.1 Credits: 1 Coefficients: 1	Careers in science and technologies 1	1	1	1h30			22h30	02h30		100%
Transversal EU Code: UET 1.1 Credits: 2 Coefficients: 2	Foreign language 1 (French and/or English)	2	2	3h00			45h00	05h00		100 %
1Total semester 1		**30**	**17**	**16h00**	**4h30**	**4h30**	**375h00**	**375h00**		

Semester 2

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Titled	Examen
Fundamental EU Code: UEF 1.2 Credits: 18 Coefficients: 9	Mathématiques 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Physique 2	6	3	3h00	1h30		67h30	82h30	40%	60%
	Thermodynamique	6	3	3h00	1h30		67h30	82h30	40%	60%
Methodological EU Code: UEM 1.2 Credits: 9 Coefficients: 5	TP Physique 2	2	1			1h30	22h30	27h30	100%	
	TP Chimie 2	2	1			1h30	22h30	27h30	100%	
	Informatique 2	4	2	1h30		1h30	45h00	55h00	40%	60%
	Méthodologie de la présentation	1	1	1h00			15h00	10h00		100%
EU Discovery Code: UED 1.2 Credits: 1 Coefficients: 1	Les métiers en sciences et technologies 2	1	1	1h30			22h30	02h30		100%
Transversal EU Code: UET 1.2 Credits: 2 Coefficients: 2	Langue étrangère 2 (Français et/ou anglais)	2	2	3h00			45h00	05h00		100 %
Total semester 2		**30**	**17**	**16h00**	**4h30**	**4h30**	**375h00**	**375h00**		

Semester 3

Teaching unit	Titled	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
				Course	TD	TP			Continuous Assessment	Exam
Fundamental EU Code: UEF 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%
Fundamental EU Code: UEF 2.1.2 Credits: 8 Coefficients: 4	Fluid mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Mineral chemistry	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	22h30	27h30	100%	
	Technical drawing	2	1			1h30	22h30	27h30	100%	
	TP Waves and vibrations	1	1			1h00	15h00	10h00	100%	
EU Discovery Code: UED 2.1 Credits: 2 Coefficients: 2	HSE Industrial Installations	1	1	1h30			22h30	02h30		100%
	Regulations and standards	1	1	1h30			22h30	02h30		100%
Transversal EU Code: UET 2.1 Credits: 1 Coefficients: 1	Technical English	1	1	1h30			22h30	02h30		100%
Total semester 3		**30**	**17**	**13h30**	**7h30**	**4h00**	**375h00**	**375h00**		

Semester 4

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Titled	Examen
Fundamental EU Code: UEF 2.2.1 Credits: 8 Coefficients: 5	Solution chemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
	Organic chemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 2.2.2 Credits: 8 Coefficients: 4	Chemical thermodynamics	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: 2 Coefficients: 1	Chemical kinetics	2	1	1h30			22h30	27h30		100%
Methodological EU Code: UEM 2.2 Credits: 9 Coefficients: 5	Practical work on solution chemistry	2	1			1h30	22h30	27h30	100%	
	Organic Chemistry Practical Work	1	1			1h00	15h00	10h00	100%	
	Practical work on fluid mechanics	2	1			1h30	22h30	27h30	100%	
	Numerical Methods Practical Work	2	1			1h30	22h30	27h30	100%	
	Chemical Kinetics Practical Work	2	1			1h30	22h30	27h30	100%	
EU Discovery Code: UED 2.2 Credits: 2 Coefficients: 2	Introduction to Refining and Petrochemistry	1	1	1h30			22h30	02h30		100%
	Concepts of transfer phenomena	1	1	1h30			22h30	02h30		100%
Transversal EU Code: UET 2.2 Credits: 1	Expression and communication techniques	1	1	1h30			22h30	02h30		100%

Coefficients: 1										
Total semester 4		**30**	**17**	**12h00**	**6h00**	**7h00**	**375h00**	**375h00**		

Semester 5

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**			Titled	**Examen**
Fundamental EU Code: UEF 3.1.1 Credits: 10 Coefficients: 5	Heat Transfer	4	2	1h30	1h30		45h00	55h00	40%	60%
	Transfer of Matter	4	2	1h30	1h30		45h00	55h00	40%	60%
	Transfer of Momentum	2	1	1h30			22h30	27h30		100%
Fundamental EU Code: UEF 3.1.2 Credits: 8 Coefficients: 4	Electrochemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
	Instrumentation - sensors	2	1	1h30			22h30	27h30		100%
	Kinetics and homogeneous catalysis	2	1	1h30			22h30	27h30		100%
Methodological EU Code: UEM 3.1 Credits: 9 Coefficients: 5	Analysis techniques	4	2	1h30		1h30	45h00	55h00	40%	60%
	Practical work: Physical Chemistry 1 and Chemical Engineering 1	2	1			1h30	22h30	27h30	100%	
	Macroscopic assessments	3	2	1h30	1h00		37h30	37h30	40%	60%
EU Discovery Code: UED 3.1 Credits: 2 Coefficients: 2	pharmaceutical processes	1	1	1h30			22h30	02h30		100%
	Agri-food processes	1	1	1h30			22h30	02h30		100%
Transversal EU Code: UET 3.1 Credits: 1 Coefficients: 1	Pollution: Air, water, soil	1	1	1h30			22h30	02h30		100%
Total semester 5		**30**	**17**	**16h30**	**5h30**	**3h00**	**375h00**	**375h00**		

Semester 6

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**			**Continuous Assessment**	**Exam**
Fundamental EU Code: UEF 3.2.1 Credits: 10 Coefficients: 5	Unit operations	6	3	3h00	1h30		67h30	82h30	40%	60%
	Thermodynamics of equilibria	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 3.2.2 Credits: 8 Coefficients: 4	Homogeneous reactors	4	2	1h30	1h30		45h00	55h00	40%	60%
	Surface phenomena and heterogeneous catalysis	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological EU Code: UEM 3.2 Credits: 9 Coefficients: 5	End of Cycle Project	4	2			3h00	45h00	55h00	100%	
	Process simulators	3	2	1h30		1h00	37h30	37h30	40%	60%
	Practical work in physical chemistry 2 and chemical engineering 2	2	1			1h30	22h30	27h30	100%	
EU Discovery Code: UED 3.2 Credits: 2 Coefficients: 2	Cryogenic processes	1	1	1h30			22h30	02h30		100%
	Corrosion	1	1	1h30			22h30	02h30		100%
Transversal EU Code: UET 3.2 Credits: 1 Coefficients: 1	Professional project and business management	1	1	1h30			22h30	02h30		100%
Total semester 6		**30**	**17**	**13h30**	**6h00**	**5h30**	**375h00**	**375h00**		