

Master: Materials Processing Engineering

Semester 1

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Hourly Volume Semestriel (15 weeks)	Additional work in Consultation (15 weeks)	Evaluation Mode	
	Titled			Course	TUT	PW			Continuous Assessment	Exam
Fundamental UE Code : UEF 1.1 Crédits : 8 Coefficients : 4	Class and Structure of Materials	4	2	1h30	1h30		45h00	55h00	40%	60%
	Physical Chemistry of Silicates	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental UE Code : UEF 1.2 Crédits : 10 Coefficients : 5	Technical Thermodynamics	4	2	1h30	1h30		67h00	82h30	40%	60%
	Crystallography	4	2	1h30	1h30		45h00	27h00	40%	60%
	Materials Characterization	2	1	1h30			22h30			100%
Methodological UE Code : UEM 1.1 Crédits :9 Coefficients : 5	Instrumentation and Measurement	4	2	1h30		1h30	45h00	55h00	40%	60%
	Electrochemical Methods	4	2	1h30		1h30	45h00	55h00	40%	60%
	Recycling of Materials	1	1	1h30		1h30	15h00	10h00	100%	
Discovery UE Code : UED 1.1 Crédits : 2 Coefficients : 2	Recycling of Materials	1	1	1h30			22h30	2h30		100%
	Biocompatible Materials	1	1	1h30			22h30	2h30		100%
Transversal UE Code : UET 1.1 Crédits : 1 Coefficients : 1	Technical English	1	1	1h30			22h30	2h30		100%
Total 1st semester		30	17	13h30	6h00	5h30	375h00	375h00		

Semester 2

Teaching Unit	Subjects	Cr ed its	Coef- ficient	Weekly hourly volume			Hourly Volume Semestriel (15 weeks)	Additional work in Consultation (15 weeks)	Evaluation Mode	
	Titled			Course	TUT	PW			Continuous Assessment	Exam
Fundamental UE Code : UEF 2.1 Crédits : 18 Coefficients : 9	Unit Operations II	4	2	1h30	1h30		45h00	55h00	40%	60%
	Transformation techniques	4	2	1h30	1h30		67h30	82h30	40%	60%
	Processing Techniques	2	1	1h30			22h30	27h30		100%
	Phase Diagrams	4	2	1h30	1h30		45h00	55h00	40%	60%
	Industrial Furnaces Technology	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological UE Code : UEM 2.1 Crédits : 9 Coefficients : 5	Aging and Degradation of Materials	4	2	1h30		1h30	45h00	27h30	100%	
	Surfaces and Interfaces	3	2	1h30		1h00	37h30	37h30	40%	60%
	Materials Elaboration Lab	2	1			1h30	22h30	55h00	40%	60%
Discovery UE Code : UED 2.1 Crédits : 2 Coefficients : 2	Surface Treatment	1	1	1h30			22h30	2h30		100%
	Nanomaterials	1	1	1h30			22h30	2h30		100%
Transversal UE Code : UET 2.1 Crédits : 2 Coefficients : 2	Standards and Ethics	1	1	1h30			22h30	2h30		100%
Total 2nd semester		30	17	15h00	06h00	4h00	375h00	375h00		

Semester 3

Teaching Unit	Subjects	Credits	Coefficient	Weekly hourly volume			Hourly Volume Semestriel (15 weeks)	Additional work in Consultation (15 weeks)	Evaluation Mode	
	Titled			Course	TUT	PW			Continuous Assessment	Exam
Fundamental UE Code : UEF 2.1.1 Crédits : 10 Coefficients : 5	Porous and Dispersed Media	4	2	1h30	1h30		45h00	55h00	40%	60%
	Polymeric and Composite Materials	6	3	3h00	1h30		67h30	82h30	40%	60%
Fundamental UE Code : UEF 2.1.2 Crédits : 8 Coefficients : 4	Glass Technology	4	2	1h30	1h30		45h00	55h00	40%	60%
	Ceramics and Binders Technology	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological UE Code : UEM 2.1 Crédits : 9 Coefficients : 5	Materials Application in Pollution Control	2	1			1h30	22h30	27h30	100%	
	Process Modeling and Optimization	3	2			1h00	37h30	37h30	40%	60%
	Catalytic Materials in Chemical Reactions	2	1	1h30			22h30	27h30		100%
	Life Cycle Analysis and Economic Assessment	2	1	1h30			22h30	27h30		100%
Discovery UE Code : UED 2.1 Crédits : 2 Coefficients : 2	Industrial Safety and Risk	1	1				22h30	2h30		100%
	choice Subject	1	1				22h30	2h30		100%
Transversal UE Code : UET 2.1 Crédits : 1 Coef : 1	Documentary research and thesis design	1	1	1h30			22h30	2h30		100%
Total 3rd semester		30	17	18h00	4h30	2h30	375h00	375h00		