# Process Engineering Degree Semester 1

Teaching unit	Course title		Hourly volu		lume per week		Hourly Volume of	Additional Work	Assessment method	
		Credits	Coefficient	Course	TD	PW	each semester (15 weeks)	(15 weeks)	Continuous Assessment	Exam
Fundamental Unit	Mathematics 1	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
Code: UEF 1.1 Credits: 18	Physics 1	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
Coefficients: 9	Structure of matter	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Physics 1 Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
Methodological Unit Code: UEM 1.1	Chemistry 1 practical work	2	1			1h30	10:30 p.m.	27:30	100%	
Credits: 9 Coefficients: 5	Computer Science 1	4	2	1h30		1h30	45h00	55h00	40%	60%
	Writing methodology	1	1	1 hour			3:00 p.m.	10:00 a.m.		100%
Discovery Unit Code: UED 1.1 Credits: 1 Coefficients: 1	Professions in Science and Technologies 1	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal Unit Code: UET 1.1 Credits: 2 Coefficients: 2	Ethical and deontological 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	4:00 p.m.	4:30 a.m.	4:30 a.m.	375 hours	375 hours		

	Course title		ient	Hourly volume per week Hourly Volume of		Additional Work	Assessment method			
Teaching unit		Credits	Coefficient	Course	TD	PW	each semester (15 weeks)	(15 weeks)	Assessment  Continuous Assessment  40%  40%  100%  100%  40%	Exam
Fundamental Unit Code: UEF 1.2 Credits: 18	Mathematics 2	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Physics 2	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
Coefficients: 9	Thermodynamics	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
	Physics 2 Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
Methodological Unit Code: UEM 1.2	Chemistry 2 practical work	2	1			1h30	10:30 p.m.	27:30	100%	
Credits: 9 Coefficients: 5	Computer Science 2	4	2	1h30		1h30	45h00	55h00	40%	60%
	Presentation methodology	1	1	1 hour			3:00 p.m.	10:00 a.m.	Continuous Assessment  40%  40%  40%  100%	100%
Discovery Unit Code: UED 1.2 Credits: 1 Coefficients: 1	Professions in science and technologies 2	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal Unit Code: UET 1.2 Credits: 2 Coefficients: 2	Foreign language 2 (French and/or English)	2	2	3:00 a.m.			45h00	5:00 a.m.		100%
Total semester 2		30	17	4:00 p.m.	4:30 a.m.	4:30 a.m.	375 hours	375 hours		

			ient	Hourly volume per week			Hourly Volume of each	Additional Work	Assessment method	
Teaching unit	Course title	Credits	Coefficient	Course	TD	PW	semester (15 weeks)	(15 weeks)	Continuous Assessment	Exam
Fundamental unit Code: UEF 2.1.1	Mathematics 3	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
Credits: 10 Coefficients: 5	Waves and vibrations	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental unit Code: UEF 2.1.2	Fluid mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
Credits: 8 Coefficients: 4	Mineral chemistry	4 2 1h30 1h30 45h00 55h00	40%	60%						
	Probability and statistics	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological unit Code: UEM 2.1	Computer Science 3	2	1			1h30	10:30 p.m.	27:30	100%	
Credits: 9 Coefficients: 5	Technical drawing	2	1			1h30	10:30 p.m.	27:30	100%	
	TP Waves and vibrations	1	1			1 h	3:00 p.m.	10:00 a.m.	Assessment  40%  40%  40%  40%  40%  100%	
EU Discovery Code: UED 2.1 Credits: 2	HSE Industrial Installations	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Coefficients: 2	Regulations and standards	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	_	

TD 1.	Course title		fici	E Hourly volume		er week	Hourly Volume	Additional Work	Assessment method	
Teaching unit	Titled	Credits	Coeffici	Course	TD	PW	of each semester (15 weeks)	(15 weeks)	Continuous Assessment	Exam
Fundamental Unit Code: UEF 2.2.1	Chemistry of Solutions	4	2	1h30	1h30		45h00	55h00	40%	60%
Credits: 8 Coefficients: 4	Organic chemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Unit Code: UEF 2.2.2	Chemical thermodynamics	4	2	1h30	1h30		45h00	55h00	40%	60%
Credits: 8 Coefficients: 4	Numerical methods	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Unit Code: UEF 2.2.3 Credits: 2 Coefficients: 1	Chemical kinetics	2	1	1h30			10:30 p.m.	27:30		100%
	Practical work on Chemistry of Solutions	2	1			1h30	10:30 p.m.	27:30	100%	
Methodological Unit Code: UEM 2.2	Organic Chemistry Practical Work	1	1			1 h	3:00 p.m.	10:00 a.m.	100%	
Credits: 9 Coefficients: 5	Practical work on fluid mechanics	2	1			1h30	10:30 p.m.	27:30	100%	
Coefficients: 5	Numerical Methods Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
	Chemical Kinetics Practical Work	2	1			1h30	10:30 p.m.	27:30	100%	
Discovery Unit Code: UED 2.2	Introduction to Refining and Petrochemistry	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Credits: 2 Coefficients: 2	Concepts of transfer phenomena	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Transversal Unit 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 p.m.	6:00 a.m.	7:00 a.m.	375 hours	375 hours		

Teaching unit	Materials		ent	Weekly	y hourly volume		. Half-yearly Hourly	Additional Work	Assessment method	
	Titled	Credits	Coefficient	Course	TD	PW	Volume (15 weeks)	in Consultation (15 weeks)	Continuo us Assessme nt	Exam
Fundamental EU	Heat Transfer	4	2	1h30	1h30		45h00	55h00	40%	60%
Code: UEF 3.1.1	Transfer of Matter	4	2	1h30	1h30		45h00	55h00	40%	60%
Credits: 10 Coefficients: 5	Transfer of Momentum	2	1	1h30			10:30 p.m.	27:30		100%
Fundamental EU	Electrochemistry	4	2	1h30	1h30		45h00	55h00	40%	60%
Code: UEF 3.1.2 Credits: 8	Instrumentation - sensors	2	1	1h30			10:30 p.m.	27:30		100%
Coefficients: 4	Kinetics and homogeneous catalysis	2	1	1h30			10:30 p.m.	27:30	Continuo us Assessme nt 40% 40%	100%
	Analysis techniques	4	2	1h30		1h30	45h00	55h00	40%	60%
Methodological EU Code: UEM 3.1 Credits: 9 Coefficients: 5	Practical work: Physical Chemistry 1 and Chemical Engineering 1	2	1			1h30	10:30 p.m.	27:30	Continuo us Assessme nt 40% 40% 40% 100%	
Coefficients. 5	Macroscopic assessments	3	2	1h30	1 hour		37h30	37h30		60%
EU Discovery Code: UED 3.1 Credits: 2	pharmaceutical processes	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Coefficients: 2	Agri-food processes	1	1	1h30			10:30 p.m.	2:30 a.m.	Continuo us Assessme nt 40% 40% 40% 100%	100%
Transversal EU Code: UET 3.1 Credits: 1 Coefficients: 1	Pollution: Air, water, soil	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Total semester 5		30	17	4:30 p.m.	5:30 a.m.	3:00 a.m.	375 hours	375 hours		

	Materials		ient	Weekly	hourly v	olume	Half-yearly Hourly	Additional Work	Assessment method	
Teaching unit	Titled	Credits	Coefficient	Course	TD	ТР	Volume (15 weeks)	in Consultation (15 weeks)	Continuous Assessment	Exam
Fundamental EU Code: UEF 3.2.1	Unit operations	6	3	3:00 a.m.	1h30		67h30	82h30	40%	60%
Credits: 10 Coefficients: 5	Thermodynamics of equilibria	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental EU Code: UEF 3.2.2	Homogeneous reactors	4	2	1h30	1h30		45h00	55h00	40%	60%
Credits: 8 Coefficients: 4	Surface phenomena and heterogeneous catalysis	4	2	1h30	1h30		45h00	55h00	40%	60%
Made 11 2 1pm	End of Cycle Project	4	2			3:00 a.m.	45h00	55h00	100%	
Methodological EU Code: UEM 3.2 Credits: 9	Process simulators	3	2	1h30		1 hour	37h30	37h30	40%	60%
Coefficients: 5	Practical work in physical chemistry 2 and chemical engineering 2	2	1			1h30	10:30 p.m.	27:30	Continuous Assessment  40%  40%  40%  40%  100%	
EU Discovery Code: UED 3.2	Cryogenic processes	1	1	1h30			10:30 p.m.	2:30 a.m.		100%
Credits: 2 Coefficients: 2	Corrosion	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	1:30 p.m.	6:00 a.m.	5:30 a.m.	375 hours	375 hours		