

BSc of Chemical Engineering

YEAR ONE	
FALL SEMESTER Common Courses	
	7 5 0 5 0
Basic Mathematics 1: Mathematics Background in English	3 ECTS
Basic Physics 1: Physics Background in English	3 ECTS
Basic Chemistry 1: Chemistry Background in English	3 ECTS
Introduction to Computer Science:	4 F.O.T.C
Systems, Algorithms and Programming 1	4 ECTS
The French Language	2 ECTS
The English Languages	4 ECTS
Working Methodology	1 ECTS
SPRING SEMESTER	
SPRING SEMESTER Common Courses	
	3 ECTS
Common Courses	3 ECTS 3 ECTS
Common Courses Basic Mathematics 2: Introduction to Algebra, Probability and Statistics	
Common Courses Basic Mathematics 2: Introduction to Algebra, Probability and Statistics Basic Physics 2	3 ECTS 3 ECTS
Common Courses Basic Mathematics 2: Introduction to Algebra, Probability and Statistics Basic Physics 2 Basic Chemistry 2	3 ECTS
Common Courses Basic Mathematics 2: Introduction to Algebra, Probability and Statistics Basic Physics 2 Basic Chemistry 2 Introduction to Computer Science 2: Scripts,	3 ECTS 3 ECTS
Common Courses Basic Mathematics 2: Introduction to Algebra, Probability and Statistics Basic Physics 2 Basic Chemistry 2 Introduction to Computer Science 2: Scripts, Algorithms and Programming 2	3 ECTS 3 ECTS 3 ECTS
Common Courses Basic Mathematics 2: Introduction to Algebra, Probability and Statistics Basic Physics 2 Basic Chemistry 2 Introduction to Computer Science 2: Scripts, Algorithms and Programming 2 The French Language	3 ECTS 3 ECTS 2 ECTS
Common Courses Basic Mathematics 2: Introduction to Algebra, Probability and Statistics Basic Physics 2 Basic Chemistry 2 Introduction to Computer Science 2: Scripts, Algorithms and Programming 2 The French Language The English Language	3 ECTS 3 ECTS 2 ECTS 2 ECTS

YEAR TWO (L1) FALL SEMESTER

Common Courses

Mathematics 1: Mathematics for Sciences 1	6 ECTS
Physics 1: Mechanics 1, Thermodynamics 1, Electrostatics	6 ECTS
Chemistry 1: Architecture of matter 1, Transformation	6 ECTS
of matter 1, Experimental chemistry 1	0 LO13
Humanities 1: Higher Education Methodologies	2 ECTS
The French Language 2	2 ECTS
The English Language 2	2 ECTS
Specialisty Courses	
Computer Science 1	3 ECTS
Chemical Engineering 1: Introduction to Unitary Operations	6 ECTS
SPRING SEMESTER	
Mathematics 2: Linear Algebra	6 ECTS
Physics 2: Vibration, waves and optics 3	3 ECTS
Dhysias lab tarining / Dhysias 1 8 0	3 ECTS
Physics lab tarining/ Physics 1 & 2	
The French Language 2	2 ECTS
	2 ECTS 2 ECTS
The French Language 2	
The French Language 2 The English Language 2	2 ECTS
The French Language 2 The English Language 2 Humanities 2: Introduction to Business World Specialisty Courses	2 ECTS 2 ECTS
The French Language 2 The English Language 2 Humanities 2: Introduction to Business World	2 ECTS
The French Language 2 The English Language 2 Humanities 2: Introduction to Business World Specialisty Courses Chemistry 2: Architecture of matter 2, Transformation of	2 ECTS 2 ECTS

YEAR THREE (L2) FALL SEMESTER

Common Courses

Mathematics 3: Linear Algebra II	5 ECTS
Physics 3: Solid and fluid mechanics. Electricity	5 ECTS
The French Language 3	3 ECTS
Humanities 3: Management	2 ECTS
Specialisty Courses	
Chemistry 3: Chemical activity – organic chemistry	6 ECTS
Chemical Engineering 3: Distillation, Operations on solid	3 ECTS
Web Programming 2: Back-end web programming	3 ECTS
SPRING SEMESTER Common Courses	
	4 ECTS
Common Courses	
Common Courses Mathematics 4: Vector Analysis	4 ECTS 6 ECTS
Common Courses Mathematics 4: Vector Analysis Physics 4: Thermodynamics 2, Electronics,	
Common Courses Mathematics 4: Vector Analysis Physics 4: Thermodynamics 2, Electronics, Physics lab tarining/Physics 3 & 4	6 ECTS
Common Courses Mathematics 4: Vector Analysis Physics 4: Thermodynamics 2, Electronics, Physics lab tarining/Physics 3 & 4	6 ECTS
Common Courses Mathematics 4: Vector Analysis Physics 4: Thermodynamics 2, Electronics, Physics lab tarining/Physics 3 & 4 The French Language 4	6 ECTS

YEAR FOUR (L3) FALL SEMESTER

Common Courses

Mathematics 5: Linear algebra, Fourier transforms and probability	2 ECTS
Computer Science for Physics and Chemistry	2 ECTS
Physics 5: Electromagnetism	6 ECTS
Humanities 4: Preperation of Internship	2 ECTS
Specialisty Courses	
Chemistry 5: Materials, polymers and formulation	9 ECTS
Chemical Engineering 5: System dynamics and regulation	9 ECTS

SPRING SEMESTER

Common Courses

Bioengineering	3 ECTS
Humanities 5: Marketing for Engineers, Scientists and Technologists	3 ECTS
BSc Internship in Company [14 weeks]	15 ECTS
Interdisciplinary Project [3 weeks]	6 ECTS
Process Simulation	3 ECTS