

1st Year: Core Curriculum

Year 1, Sem 1: Sept to Feb (S5)

Title	coef	ECTS	Student hours
UE_551 - Chemistry 1	3	5	50
GENERAL CHEMISTRY	1		20
ORGANIC CHEMISTRY	1		30
UE_552 - Chemistry 2	3	5	62
CHROMATOGRAPHY ANALYSIS	1		15
SPECTROSCOPY ANALYSIS	1		15
PRACTICAL ANALYTICAL CHEMISTRY INSTRUMENTATION	2		32
UE_553 - Physics 1	3	5	65,5
FLUID MECHANICS 1	1		18
THERMODYNAMICS 1	1		19,5
MATERIAL RESISTANCE	1		28
UE_554 - Engineering Science 1	2	5	63
MATHEMATICAL TOOLS	1		20
IT AND DATA TREATMENT	1		23
NUMERICAL MATHEMATICAL METHODS	1		20
UE_555 - Engineer in a company 1	2	5	62
ECONOMICAL ENVIRONMENT, ENTERPRISES AND MARKETS	2		24
HEALTH AND SAFETY	1		12
ACCOUNTING MANAGEMENT	2		17
CONTRACT AND COMPANY RIGHTS	1		9
UE_556 - Engineer in a company 2	2	5	71
ENGLISH 1	1		31
COMMUNICATION	1		16
MICRO-PROJECT AND INTRODUCTION TO BIBLIOGRAPHY	2		24

Year 1, Sem 2: Feb to June (S6)

Title	coef	ECTS	Student Hours
UE_651 - Polymers Science 1	3	5	71,5
ANALYTICAL CHEMISTRY	2		32
INTRODUCTION TO POLYMER	2		22
POLYMER APPLICATIONS	1		17,5
UE_652 - Chemistry 3	3	5	61,5
MINERAL CHEMISTRY	1		21
PHOTOCHEMISTRY	1		20
THERMOCHEMISTRY - KINETICS	1		20,5
UE_653 - Physics 2	3	5	65
FLUID MECHANICS 2	1		18
THERMODYNAMICS 2	1		26,5
HEAT TRANSFER	1		20,5
UE_654 - Engineering Science 2	2	5	47
STATISTICS	2		20
EXPERIMENTAL RESOLUTION METHODOLOGY	2		18
INDUSTRIAL IMAGING 1	1		9
UE_655 - Engineer in a Company 3	2	5	49,5
INTRODUCTION TO BUSINESS START-UPS	NE		2
SUSTAINABLE DEVELOPMENT	NE		4
WORK LEGISLATION	1		9
CHEMICAL NORMS AND REACH PROGRAMME	1		4,5
MARKETING	1		15
NEGOCIATION	1		15
UE_656 - Engineer in a Company 4	2	5	61
HUMANITIES 1: ASPECTS OF INNOVATION	1		24
ENGLISH 2	1		31
PREPARATION FOR INTERNATIONAL EXPERIENCES	NE		4
CONFERENCE: COMPANY PROJECT	NE		2

2nd YEAR

Specialisation: Plastic Materials (PM)

Year 2 PM, Sem 1: Sept to Feb (S7)

Title	coef	ECTS	Student Hours
UE_751 - Polymers Science 2	3	5	85
POLYMER CHEMISTRY 2	2		54
POLYMER PHYSICS AND MORPHOLOGY	1		18
POLYMERS PRACTICALS	1		13
UE_752 - Research and Innovation 1	2	4	70
TECHNOLOGY WATCH / BIBLIOGRAPHY	1		70
UE_753 - Physico-Chemistry	3	5	104
COMPOSITES	1		15
MECHANICAL PROPERTIES OF MATERIALS	1		13
APPLIED RHEOLOGY	1		20
PHYSICOCHEMICAL PROPERTIES OF SURFACES	1		25
COLLOIDS	1		20
COLORIMETRY	1		11
UE_754 - Engineer in a company 5	2	4	28
PROJECT MANAGEMENT	1		28
UE_755 - Engineer in a company 6	2	4	54
HUMANITIES 2 : GLOBALISATION AND DIVERSITY	1		24
ENGLISH 3	2		30
UE_756 - International Experience	1	4	1
INTERNATIONAL INTERNSHIP EXPERIENCE	1		1

Year 2 PM, Sem 2: Feb to June (S8)

Title	ECTS	Student Hours
UE_851 - Research and Innovation 2	3	30
RESEARCH PROECT 1		30
UE_852 - Engineer in a Company 7	4	98
FUNCTIONAL ANALYSIS		10
BUSINESS MODEL SIMULATION		18
ENGLISH 4 (AS A FOREIGN LANGUAGE)		31
INDUSTRIAL PROPERTY (PATENTS)		9
PRODUCTION MANAGEMENT		30
UE_853 – English Language Level Validation	3	3
ENGLISH TEST		3
UE_881 - Plastic Materials 1	7	74.5
RAW MATERIALS (PLASTIC MATERIALS)		32.5
EXTRUSION 1		30
CARACTERISATION 1		12
UE_882 - Plastic Materials 2	7	96
INJECTION 1		61
COMPUTER AIDED CONCEPTION AND DESIGN		35
UE_883 - Plastic Materials 3	6	61.5
INDUSTRIAL IMAGING 2 AND FUNCTIONAL DIMENSIONNING		20
INDUSTRIAL IMAGING 3		15,5
OTHER IMPLEMENTATION PROCEDURES		26

3rd YEAR

Year 3 PM, Sem 1: Sept to Feb (S9)

Title	ECTS	Student Hours
UE_951 - Engineering Internship	8	
ENGINEERING INTERNSHIP		
UE_952 - Engineer in a company 8	3	56
HUMANITIES 3 : WORK ENVIRONMENT OF ENGINEERING		24
PROFESSIONAL ENGLISH		24
PREPARATION FOR A PROFESSIONAL CAREER - EMPLOYMENT		8
UE_953 - Engineer in a company 9	4	56
QUALITY		16
HR MANAGEMENT		30
SUSTAINABLE DEVELOPMENT, LIFE CYCLE ANALYSES, ECO-CONCEPTION		10
UE_954 - Research and Innovation 3	4	120
RESEARCH PROJECT 2		120
UE_981 - Plastic Materials 4	4	110
EXTRUSION 2		20
PIECEWORK CONCEPTION AND EQUIPMENT		68
COMPUTER AIDED CONCEPTION - RHELOGY SIMULATIONS		13
THERMAL		9
UE_982 - Plastic Materials 5	4	73
INJECTION 2		41
CHARACTERISATION 2		8
IMPLEMENTATION OF COMPOSITES		13
PLASTIC MATERIALS CONFERENCES		11
UE_983 - Plastic Materials 6	3	22.5
CONTAINER-CONTENT REGULATION (PACKAGING)		5,5
DECORATION / PAINT LAYOUT		13
OTHER PLASTIC MATERIALS REGULATIONS		4

Year 3 PM, Sem 2: Final Year Engineering Project (S10)

Title	ECTS
UE_1041 - Engineering Project	30
FINAL YEAR PROJECT	