

1st Year: Core Curriculum

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

Title	ECTS	Hours
		Total
UE_501 - Chemistry 1	5	71,5
GENERAL CHEMISTRY		20
ANALYTICAL CHEMISTRY		31
THERMOCHEMISTRY - KINETICS		20,5
UE_502 - Chemistry 2	5	60
ORGANIC CHEMISTRY		20
MINERAL CHEMISTRY		20
PHOTOCHEMISTRY		20
UE_503 - Physics 1	5	69,5
FLUID MECHANICS		30
THERMODYNAMICS 1		19,5
ELECTRONICS		20
UE_504 - Engineering Science 1	5	60
STATISTICS		20
MATHEMATICAL TOOLS		20
IT AND DATA TREATMENT		20
UE_505 - Engineer in a company 1	5	66
ECONOMICAL ENVIRONMENT, ENTERPRISES AND MARKETS		24
HEALTH AND SAFETY		12
INTRODUCTION TO BUSINESS START-UPS		2
ACCOUNTING MANAGEMENT		19
CONTRACT AND COMPANY RIGHTS		9
UE_506 - Engineer in a company 2	5	69
ENGLISH (AS A FOREIGN LANGUAGE)		33
COMMUNICATION		12
MICRO-PROJECT AND INTRODUCTION TO BIBLIOGRAPHY		24
Total	30	396

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

Title	ECTS	Hours
		Total
UE_601 - Polymer Science 1	5	42
POLYMER CHEMISTRY		22
APPLIED POLYMERS		20
UE_602 - Chemistry 3	5	70
ANALYTICAL CHEMISTRY INSTRUMENTATION		60
SURFACE TREATMENT AND ANALYSES		10
UE_603 - Physics 2	5	67
THERMODYNAMICS 2		26,5
HEAT TRANSFER		20,5
AUTOMATION - REGULATION		20
UE_604 - Engineering Science 2	5	48
MATHEMATICAL AND NUMERICAL METHODS		20
EXPERIMENTAL RESOLUTION METHODOLOGY		19
INDUSTRIAL IMAGING 1		9
UE_605 - Engineer in a Company 3	5	54
ACCOUNTING MANAGEMENT 2		18
CHEMICAL NORMS AND REACH PROGRAMME		6
MARKETING NEGOCIATION		30
UE_606 - Engineer in a Company 4	5	59
HUMANITIES 1: APECTS OF INNOVATION		24
ENGLISH 2 (AS A FOREIGN LANGUAGE)		31
PREPARATION FOR INTERNATIONAL EXPERIENCES		4
Total	30	340

Specialisation: Formulation Chemistry (FC)

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

Title	ECTS	Hours
		Total
UE_701 - Polymer Science 2	5	88
POLYMER CHEMISTRY 2		54
POLYMER PHYSICS AND MORPHOLOGY		21
POLYMERS PRACTICALS		13
UE_702 - Research and Innovation 1	5	70
INTRODUCTION TO TECHNOLOGY WATCH		70
UE_703 - Physico-Chemistry	5	67
MECHANICAL PROPERTIES OF COMPOSITES		28
APPLIED RHEOLOGY		16
PHYSICOCHEMICAL PROPERTIES OF SURFACES		23
UE_704 - Engineer in a company 5	5	51
PRODUCT SPECIFICATION AND DEFINITION		10
WORK LEGISLATION		9
PROJECT MANAGEMENT		32
UE_705 - Engineer in a company 6	5	58
HUMANITIES 2 : GLOBALISATION AND DIVERSITY		24
ENGLISH 3 (AS A FOREIGN LANGUAGE)		33
CONCLUSION OF INTERNATIONAL EXPERIENCE		1
UE_721 - Specific Prerequisites FC (Formulation Chemistry)	5	62
PHYSICOCHEMICAL PROPERTIES OF COLLOIDS		20
ORGANIC CHEMISTRY 2		42
Total	30	396

Year 2 FC, Sem 2: March to June (S8)

Title	ECTS	Hours
		Total
UE_801 - Research and Innovation 2	3	39
BIBLIOGRAPHICAL SUMMARY		30
INDUSTRIAL PROPERTY (PATENTS)		9
UE_802 - Engineer in a Company 7	7	79
BUSINESS MODEL SIMULATION		18
ENGLISH 4 (AS A FOREIGN LANGUAGE)		31
PRODUCTION MANAGEMENT		30
UE_821 - Formulation Chemistry 1	8	80
FORMULATION PRINCIPALS AND PHISICO-CHEMISTRY		20
RAW MATERIALS (FORMULATION CHEMISTRY)		40
PAINT SPECIFICATIONS AND CHOICE OF COMPONENTS		20
UE_822 - Formulation Chemistry 2	7	90
ADHESIFS: GENERALITES		27
ADHESIFS: AQUEOUS PHASE		26
INDUSTRIAL PAINTS 1 AND DECORATIVES		37
UE_823 - Formulation Chemistry 3	5	70
COLORIMETRY		20
SKIN BIOLOGY		10
CARE PRODUCTS		14,5
HEALTH PRODUCTS		21
PHARMACEUTICAL GALENICS		4,5
Total	30	358

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

Title	ECTS	Hours
		Total
UE_901 - Engineering Internship	2	0
ENGINEERING INTERNSHIP		
UE_902 - Engineer in a company 8	3	48
HUMANITIES 3 : WORK ENVIRONMENT OF ENGINEERING		24
PROFESSIONAL ENGLISH		24
UE_903 - Engineer in a company 9	4	65
QUALITY		16
HR MANAGEMENT		30
SUSTAINABLE DEVELOPMENT, LIFE CYCLE ANALYSES, ECO-CONCEPTION		15
ECONOMICAL INTELLIGENCE		4
UE_904 - Research and Innovation 3	5	120
RESEARCH PROJECT		120
UE_921 - Formulation Chemistry 4	7	93
CONTROL OF PAINTS		4
MANUFACTURING PROCEDURES		11
APPLICATION PROCEDURES		24
INDUSTRIAL PAINTS 2		28
SPECIFIC PAINTS		26
UE_922 - Formulation Chemistry 5	6	87
MAKE-UP PRODUCTS		35
OTHER ADHESIFS		27
INKS		11
OTHER FORMULATION PRODUCTS		14
UE_923 - Formulation Chemistry 6	3	20
CONTAINER-CONTENT REGULATION (PACKAGING)		6
COSMETIC REGULATION		7
PAINTS AND ADHESIFS REGULATION		7
Total	30	433

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

Title	ECTS
UE_991 - Engineering Project	
FINAL YEAR PROJECT	
UE_992 - French Language Level Validation	
ENGLISH TEST	
Total	30

Specialisation: Leather (L)

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

Title	ECTS	Hours
		Total
UE_701 - Polymer Science 2	5	88
POLYMER CHEMISTRY 2		54
POLYMER PHYSICS AND MORPHOLOGY		21
POLYMERS PRACTICALS		13
UE_702 - Research and Innovation 1	5	70
INTRODUCTION TO TECHNOLOGY WATCH		70
UE_703 - Physico-Chemistry	5	67
MECHANICAL PROPERTIES - COMPOSITES		28
APPLIED RHEOLOGY		16
PHYSICOCHEMICAL PROPERTIES OF SURFACES		23
UE_704 - Engineer in a company 5	5	51
PRODUCT SPECIFICATION AND DEFINITION		10
WORK LEGISLATION		9
PROJECT MANAGEMENT		32
UE_705 - Engineer in a company 6	5	58
HUMANITIES 2 : GLOBALISATION AND DIVERSITY		24
ENGLISH 3 (AS A FOREIGN LANGUAGE)		33
CONCLUSION OF INTERNATIONAL EXPERIENCE		1
UE_711 - Specific Prerequisites Leather	5	62
PHYSICOCHEMICAL PROPERTIES OF COLLOIDS		20
ORGANIC CHEMISTRY 2		42
Total	30	396

Year 2 L, Sem 2: March to June (S8)

Title	ECTS	Hours
		Total
UE_801 - Research and Innovation 2	3	39
BIBLIOGRAPHICAL SUMMARY		30
INDUSTRIAL PROPERTY (PATENTS)		9
UE_802 - Engineer in a Company 7	7	79
BUSINESS MODEL SIMULATION		18
ENGLISH 4 (AS A FOREIGN LANGUAGE)		31
PRODUCTION MANAGEMENT		30
UE_811 - Leather 1	7	90
COLORIMETRY		20
PROTEIN CHEMISTRY		32
RAW MATERIALS (LEATHER)		5
INTRODUCTION TO SHOES AND MAROQUINNERIE		28
LEATHER APPLIED MICROBIOLOGY		5
UE_812 - Leather 2	6	76
BEAMHOUSE OPERATIONS		9
PRACTICAL WET END		27
TANNING - RETANNING		12
CHEMICAL ANALYSES IN A TANNERY		28
UE_813 - Leather 3	7	74
HUMID TANNING PROCEDURES		30
DYEING - FOODS		16
HUMID AND MECHANICAL CURRYING PRACTICALS		28
Total	30	358

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

Title	ECTS	Hours
		Total
UE_901 - Engineering Internship	2	0
ENGINEERING INTERNSHIP		
UE_902 - Engineer in a company 8	3	48
HUMANITIES 3 : WORK ENVIRONMENT OF ENGINEERING		24
PROFESSIONAL ENGLISH		24
UE_903 - Engineer in a company 9	4	65
QUALITY		16
HR MANAGEMENT		30
SUSTAINABLE DEVELOPMENT, LIFE CYCLE ANALYSES, ECO-CONCEPTION		15
ECONOMICAL INTELLIGENCE		4
UE_904 - Research and Innovation 3	5	120
RESEARCH PROJECT		120
UE_911 - Leather 4	6	54
LEATHER FINISHING		18
PRACTICAL LEATHER FINISHING		32
FINISHED LEATHER ITEMS QUALITY CONTROL		4
UE_912 - Leather 5	5	56
SPECIFIC LEATHER REGULATIONS		7
LEATHER CONFERENCES		10
LEATHER ITEMS DEVELOPMENT		39
UE_913 - Leather 6	5	90
ADVANCED SHOES AND MAROQUINERIE		55
MAROQUINERIE ITEM MANUFACTURING		35
Total	30	433

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

Title	ECTS
UE_991 - Engineering Project	
FINAL YEAR PROJECT	
UE_992 - French Language Level Validation	
ENGLISH TEST	
Total	30

Specialisation: Plastic Materials (PM)

Year 2 PM, Sem1: Sept to Feb (S7)

Title	ECTS	Hours
		Total
UE_701 - Polymer Science 2	5	88
POLYMER CHEMISTRY 2		54
POLYMER PHYSICS AND MORPHOLOGY		21
POLYMERS PRACTICALS		13
UE_702 - Research and Innovation 1	5	70
INTRODUCTION TO TECHNOLOGY WATCH		70
UE_703 - Physico-Chemistry	5	67
MECHANICAL PROPERTIES - COMPOSITES		28
APPLIED RHEOLOGY		16
PHYSICOCHEMICAL PROPERTIES OF SURFACES		23
UE_704 - Engineer in a company 5	5	51
PRODUCT SPECIFICATION AND DEFINITION		10
WORK LEGISLATION		9
PROJECT MANAGEMENT		32
UE_705 - Engineer in a company 6	5	58
HUMANITIES 2 : GLOBALISATION AND DIVERSITY		24
ENGLISH 3 (AS A FOREIGN LANGUAGE)		33
CONCLUSION OF INTERNATIONAL EXPERIENCE		1
UE_731 - Specific Prerequisites PM (Plastic Materials)	5	62
INDUSTRIAL IMAGING 2 AND FUNCTIONAL DIMENSIONNING		20
MATERIAL RESISTANCE - STRUCTURAL DIMENSIONNING		42
Total	30	396

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

Intitulé	ECTS	Hours
		Total
UE_801 - Research and Innovation 2	3	39
BIBLIOGRAPHICAL SUMMARY		30
INDUSTRIAL PROPERTY (PATENTS)		9
UE_802 - Engineer in a Company 7	7	79
BUSINESS MODEL SIMULATION		18
ENGLISH 4 (AS A FOREIGN LANGUAGE)		31
PRODUCTION MANAGEMENT		30
UE_831 - Plastic Materials 1	7	77
RAW MATERIALS (PLASTIC MATERIALS)		24
EXTRUSION 1		41
CARACTERISATION 1		12
UE_832 - Plastic Materials 2	7	116
COLORIMETRY		20
INJECTION 1		61
COMPUTER AIDED CONCEPTION AND DESIGN		35
UE_833 - Plastic Materials 3	6	42
INDUSTRIAL IMAGING 3		15,5
OTHER IMPLEMENTATION PROCEDURES		26,5
Total	30	353

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

Title	ECTS	Hours
		Total
UE_901 - Engineering Internship	2	0
ENGINEERING INTERNSHIP		
UE_902 - Engineer in a company 8	3	48
HUMANITIES 3 : WORK ENVIRONMENT OF ENGINEERING		24
PROFESSIONAL ENGLISH		24
UE_903 - Engineer in a company 9	4	65
QUALITY		16
HR MANAGEMENT		30
SUSTAINABLE DEVELOPMENT, LIFE CYCLE ANALYSES, ECO-CONCEPTION		15
ECONOMICAL INTELLIGENCE		4
UE_904 - Research and Innovation 3	5	120
RESEARCH PROJECT		120
UE_931 - Plastic Materials 4	7	99
EXTRUSION 2		9
PIECEWORK CONCEPTION AND EQUIPMENT		68
COMPUTER AIDED CONCEPTION - RHELOGY SIMULATIONS		13
THERMAL		9
UE_932 - Plastic Materials 5	6	75
INJECTION 2		41
CHARACTERISATION 2		8
IMPLEMENTATION OF COMPOSITES		11
PLASTIC MATERIALS CONFERENCES		15
UE_933 - Plastic Materials 6	3	31
TEXTILE REENFORCEMENT		4,5
DECORATION / PAINT LAYOUT		12
PLASTIC MATERIALS REGULATIONS		10
ASSEMBLING		4,5
Total	30	438

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

Title	ECTS
UE_991 - Engineering Project	
FINAL YEAR PROJECT	
UE_992 - French Language Level Validation	
ENGLISH TEST	
Total	30

Specialisation: Textile (Text)

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

Title	ECTS	Hours
		Total
UE_701 - Polymer Science 2	5	88
POLYMER CHEMISTRY 2		54
POLYMER PHYSICS AND MORPHOLOGY		21
POLYMERS PRACTICALS		13
UE_702 - Research and Innovation 1	5	70
INTRODUCTION TO TECHNOLOGY WATCH		70
UE_703 - Physico-Chemistry	5	67
MECHANICAL PROPERTIES OF COMPOSITES		28
APPLIED RHEOLOGY		16
PHYSICOCHEMICAL PROPERTIES OF SURFACES		23
UE_704 - Engineer in a company 5	5	51
PRODUCT SPECIFICATION AND DEFINITION		10
WORK LEGISLATION		9
PROJECT MANAGEMENT		32
UE_705 - Engineer in a company 6	5	58
HUMANITIES 2 : GLOBALISATION AND DIVERSITY		24
ENGLISH 3 (AS A FOREIGN LANGUAGE)		33
CONCLUSION OF INTERNATIONAL EXPERIENCE		1
UE_741 - Specific Prerequisites TEX (Textile)	5	62
MATERIAL RESISTANCE - STRUCTURAL DIMENSIONNING		42
PHYSICOCHEMICAL PROPERTIES OF COLLOIDS		20
Total	30	396

Year 2 Text, Sem 2: March to June (S8)

Title	ECTS	Hours
		Total
UE_801 - Research and Innovation 2	3	39
BIBLIOGRAPHICAL SUMMARY		30
INDUSTRIAL PROPERTY (PATENTS)		9
UE_802 - Engineer in a Company 7	7	79
BUSINESS MODEL SIMULATION		18
ENGLISH 4 (AS A FOREIGN LANGUAGE)		31
PRODUCTION MANAGEMENT		30
UE_841 - Textile 1	7	79
RAW MATERIALS (TEXTILE)		27
TEXTILE FACTORY SPINNING		28
METROLOGY		24
UE_842 - Textile 2	7	75
WEAVING 1		43
KNITTING 1		16
NON WOVEN FABRICS		16
UE_843 - Textile 3	6	71
CUTTING - ASSEMBLING - CONFECTION		15
PREPARATION AND DYING OF FUNCIONAL-TECHNICAL FABRICS		56
Total	30	343

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

Title	ECTS	Hours
		Total
UE_901 - Engineering Internship	2	0
ENGINEERING INTERNSHIP		
UE_902 - Engineer in a company 8	3	48
HUMANITIES 3 : WORK ENVIRONMENT OF ENGINEERING		24
PROFESSIONAL ENGLISH		24
UE_903 - Engineer in a company 9	4	65
QUALITY		16
HR MANAGEMENT		30
SUSTAINABLE DEVELOPMENT, LIFE CYCLE ANALYSES, ECO-CONCEPTION		15
ECONOMICAL INTELLIGENCE		4
UE_904 - Research and Innovation 3	5	120
RESEARCH PROJECT		120
UE_941 - Textile 4	2	195
GRINDING - TEXTURING		32
WEAVING 2		8
COMPOSITES		13
KNITTING 2		78
PRINTING - FUNCTIONAL-TECHNICAL FABRIC PRIMERS		45
ENDUCTION		7
NOVEL TEXTILES		12
UE_942 - Textile 5	6	0
UE_943 - Textile 6	5	0
Total	30	428

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

Title	ECTS
UE_991 - Engineering Project	
FINAL YEAR PROJECT	
UE_992 - French Language Level Validation	
ENGLISH TEST	
Total	30