



# European Master in Advanced Materials Science and Engineering (AMASE)

## Course 2017/2018

### Track 2: Polymers and Composites - Modelling, processing & tailored properties

#### 1<sup>st</sup> quarter. Adaptation phase 33,5 mandatory credits

Teaching language	Code	Name	Type	ECTS
SPA	CEM01	Physical Metallurgy	Mandatory	5
SPA	24798	Mechanical Behaviour of Materials	Mandatory	5
SPA	CEM04	Physical Properties of Materials	Mandatory	5
SPA	CEM05	Microstructural Characterisation of Materials	Mandatory	5
ENG		Micromechanical Design, Nanomechanical and Coatings	Mandatory	5
SPA	240EM013	Structure and Properties of Polymers	Mandatory	4,5
	Language	French I, German I, Spanish I or English I	Mandatory	4
				33

#### 2<sup>nd</sup> quarter 26,5 mandatory credits

Language	Code	Name	Type	ECTS
SPA	240EQ232	Polymer Experimental Methods	Mandatory	4,5
SPA	240EM023	Plastics Technology	Mandatory	4,5
SPA	240EM025	Structural Integrity	Mandatory	4,5
ENG	240EM122	Design, Ecodesign and Recycling	Mandatory	4,5
SPA	240EM141	Selection of Materials in Mechanical Design	Mandatory	4,5
	Language	French II, German II, Spanish II or English II	Mandatory	4
				26,5



### 3rd quarter

Teaching language	Code	Course	Type	ECTS
SPA	240EM112	Organic Matrix Composites	Mandatory	4,5
SPA	240EM013	Structure and Properties of Polymers	Mandatory	4,5
SPA	240EM031	Laboratory of Materials Science and Technology	Mandatory	4,5
ENG	240EM033	Biomedical Materials	Mandatory	4,5
ENG	240EM132	Living Tissues and Biointerface	Mandatory	4,5
ENG	240EM134	Nanotechnology	Mandatory	4,5
	Language(*)	French III, German III, Spanish III or English III	Elective*	4
				31

### 4<sup>th</sup> quarter

CEM40	Master`s Thesis	Mandatory	30
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