LEARNING AGREEMENT UNIMIB – KU-LEUVEN

TYPE-A UNIMIB TRACK- FUNCTIONAL MATERIALS - MSc in Materials Science & Nanotechnology

1st YEAR at UNIMIB

First year UNIMIB courses

(To be attended)

Associations with KU-LEUVEN courses

(Not to be attended but to be indicated in the LA)

AREA 2	TAF B – ChimFisMat	credits			credits
Metals Science and Sustainability		6	\leftrightarrow	Metals: Production and Recycling	6
			-		
AREA 1	TAF B – ChimFisMat	credits			credits
Materials Spectroscopy and microscopy		9	\leftrightarrow	Materials Characterization techniques I	6
				Design and Analysis of Experimentation	3
			-		
AREA 1	TAF C – Aff./integ.	credits			credits
Strategies for Materials Synthesis		9	\leftrightarrow	Ceramics and Powder Metallurgy	6
				Physics and mechanical behaviour of polymers	3
	TAF B – ChimFisMat	credits	1	[credits
AREA 1	TAF B - ChimFisiviat			Materials Madelling Q. Circulation	
Solid State Physics		6	\leftrightarrow	Materials Modelling & Simulation Techniques	6
			J		
AREA 2	TAF B – ChimFisMat	credits			credits
Physical Chemistry of Solids		6	\leftrightarrow	Surface Science and Engineering	6
			-		
AREA 1	TAF C – Aff./integ.	credits			credits
Mathematical methods for materials science		6	<→	Project work and problem solving	3
				linked to the core courses: Part I	
				Project work and problem solving	3
				linked to the core courses: Part II	
AREA 1	TAF B – ChimFisMat	credits]		credits
Thermodynamics and kinetics of		6	-	Advanced Metal processing & case	6
materials		Ŭ	\leftrightarrow	studies	Ŭ
			1		
AREAs 2-7	TAF B – ChimFisMat	credits			credits
Physics of soft matter nanostructures		6	\leftrightarrow	Materials physics and technology for	6
				nanoelectronics	
AREA 7	TAF B – ChimFisMat	credits			credits
	TAI D CHIIII ISWIDL	cicuits	\leftrightarrow	Polymer Processing	3
Chemistry and Technology of Polymers and Industrial Applications		6		Design and Applications of Polymers	3
				and Composites	
			1		1

2ND YEAR at KU-LEUVEN

Second year KU-Leuven courses

(To be attended)

Associations with UNIMIB courses

(Not to be attended but to be indicated in the LA)

	credits		FREE	TAF D	credits
KU LEUVEN FREE ELECTIVE COURSE	6	\leftrightarrow	UNIMIB FREE ELECTIVE COURSE		6
		-			
	credits		AREA 6	TAF B – Ing Mat	credits
Engineering and Entrepreneurship	6	\leftrightarrow	Engineered Nanomaterials		6
	-	-			
	credits		AREA 6	TAF D	credits
Nanomaterials for nanoelectronics	3	\leftrightarrow	Nanotechnology and Innovation		6
Advanced ceramic materials	3				
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	credits		AREA 7	TAF D	credits
Sustainable Materials Management	3	\leftrightarrow	Low Environmental Impact Materials		6
Resource Recovery and Recycling	3		and Processes		0
		1			_
	credits		Foreign students		credits
Project Management	3	\leftrightarrow	Further Skills – Italian – A2 Level (or Higher)		3
			Italian students		credits
	oratory of Scientific	3			
			Literacy		
		1			
	credits				credits
Engineering Economy	3	\leftrightarrow	←→ Internship		3
		1			
	credits				credits
Industrial Internship	6	\leftrightarrow	Master Thesis		30
Master Thesis	24				