## Transilvania University of Braşov, Romania Study program: Engineering and Management of Advanced Materials Curriculum for ERASMUS + students

Faculty: Materials Science and Engineering

Study period: 2 years (master)

Academic year structure: 2 semesters (14 weeks per semester)

Examination sessions (two): winter session (January/February)

summer session (June/July)

Courses per years (C= course; S = seminar; L = laboratory; P = project)

## 1 Year

No.	Course	Code	language of		1 st	eme	ster		2 <sup>nd</sup> Semester					
crt.	204130		instruction	С	S	L	Ρ	Cred	С	S	L	Ρ	Cred	
01	Unconventional Technologies and	SMTEHN	romanian	2		1	1	5						
	Equipments	SIVITEMIN				'	'	ر						
02	Advanced Methods of Analysis and	SMTAAC	romanian	2		2	1	5						
02	Characterization of Materials	JIVITAAC						ر						
03	Technologies and Equipment for Rapid	SMTEPR	romanian	2		1	1	5						
	Prototyping	SIVITERK				'								
04	Technical English	SMENGT	english		2			3						
05	Ethics and Academic Integrity	SMEIA	romanian	1			1	2						
06	Criterial Choosing of Materials	SMAMAT	romanian	1		2		5						
07	Practical Research Activity 1	SMPRC-1	romanian			8		5						
80	Advanced Composite Materials	SMACM	romanian						1		1	2	5	
09	Recycling of Materials and		SMRMM	romanian						2		1	1	5
	Environmental Management	SIVIRIVIIVI									ı		5	
10	Technics for Processing of	SMTPB	CMTDD	romanian						1		2		4
	Biocompatible Materials	JIVITED							'		2		4	
11	Synthesis of Nanomaterials and	SMSNMC	romanian						2		2	1	5	
	Specific Methods of Characterization								2		2	ı	5	
12	Thermodynamics and Kinetics of	SMTCTS	romanian						2		2		5	
	Transformations in Solid State												כ	
13	Practical Research Activity 2	SMPRC-2	romanian									8	6	

## 2 Year

No.	Course	Code	language of	3 <sup>rd</sup> Semester					4 <sup>th</sup> Semester										
crt.	Course		instruction	U	S	Ш	Ρ	Cred	U	S	L	Ρ	Cred						
01	Expert Software CAD/CAM/CAE	SMSEXP	romanian	2		1	1	5											
0.2	Modelling, Simulation and	SMMSOP	romanian	1		2		5											
02	Optimization of Processes																		
03	Total Quality Management	SMMCT	romanian	1	2			5											
04	European Programs and Strategies in	SMPESD	CMDECD	CMDECD	CMDECD	romanian	romanian	romanian	ECD romanian	1			1	3					
	the Field of Advanced Materials		romanian	ı			'	3											
05	Practical Research Activity 3	SMPRC 3	romanian				8	5											

06	Logistics and Management of	SMLOMM		romanian	1		7	,				
	Materials			ı		۷	4					
07	Total Productive Maintenance	SMMETP	romanian	1	2		M					
08	Engineering of Thin Films	SMISS	romanian					2	1	1	5	
09	Tribological Characterization of	SMCTRS	romanian					1	2	1	5	
	Surfaces							ı	2	I	د ا	
10	Practical Research Activity 4	SMPRC 4	romanian							6	5	
11	Practical Activity and/or Scientific	SMPRED	romanian							6	5	
	Research for Preparing Dissertation									0	כ	
12	Drafting of Dissertation Work	SMELPD	romanian							6	10	