Transilvania University of Braşov, Romania

Study program: Engineering and Management of Advanced Materials

Faculty: Materials Science and Engineering

Study period: 2 years (master)

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

Examination sessions: winter session (January/February)

summer session (June/July)

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

1st Year

No.	Course	Code	1 Semester					2 nd Semester					
crt.			С	S	L	Р	Cred	С	S	L	Р	Cred	
1.	Unconventional Technologies and Equipments	SMTEHN	2		1	1	5						
2.	Advanced Methods of Analysis and Characterization of Materials	SMTAAC	2		2	1	5						
3.	Technologies and Equipment for Rapid Prototyping	SMTEPR	2		1	1	5						
4.	Technical English	SMENGT		2			3						
5.	Ethics and Academic Integrity	SMEIA	1			1	2						
6.	Criterial Choosing of Materials	SMAMAT	1		2		5						
7.	Practical Research Activity 1	SMPRC-1			8		5						
8.	Practical Research Activity 2	SMPRC-2									8	6	
9.	Advanced Composite Materials	SMACM						1		1	2	5	
10.	Recycling of Materials and Environmental Management	SMRMM						2		1	1	5	
11.	Technics for Processing of Biocompatible Materials	SMTPB						1		2		4	
12.	Synthesis of Nanomaterials and Specific Methods of Characterization	SMSNMC						2		2	1	5	
13.	Thermodynamics and Kinetics of Transformations in Solid State	SMTCTS						2		2		5	

2nd Year

No.	Course	Code	3 rd Semester				4 th Semester														
crt.			С	S	L	Р	Cred	С	S	L	Р	Cred									
1.	Expert Software CAD/CAM/CAE	SMSEXP	2		1	1	5														
2.	Modelling, Simulation and Optimization of	SMMSOP	1	٦	٦	1	1	1	1	1	1	1		ר							
	Processes				2		5														
3.	Total Quality Management	SMMCT	٦	2			5														
4.	European Programs and Strategies in the Field of	SMPESD	1			1															
	Advanced Materials						3														
5.	Practical Research Activity 3	SMPRC 3				8	5														
6.	Logistics and Management of Materials	SMLOMM	1			2	4														

7.	Total Productive Maintenance	SMMETP	1	2	3				
8.	Engineering of Thin Films	SMISS				2	1	1	5
9.	Tribological Characterization of Surfaces	SMCTRS				1	2	1	5
10.	Practical Research Activity 4	SMPRC 4						6	5
11.	Practical Activity and/or Scientific Research for	SMPRED						6	5
	Preparing Dissertation								
12.	Drafting of Dissertation Work	SMELPD						6	10