

Transilvania University of Braşov, Romania

Study program: Engineering and Management of Advanced Metallic, Ceramic and Composite 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. crt.	Course	Code	1 st Semester					2 nd Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
1.	Unconventional Technologies and Equipments	SMTEN	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							2		1	1	5	
11.	Technics for Processing of Biocompatible Materials	SMPBP						1		2		4	
12.	Synthesis of Nanomaterials and Specific Methods of Characterization (O2)	SMSNMC						2		2	1	5	
13.	Thermodynamics and Kinetics of Transformations in Solid State	SMTKTSS						2		2		5	

2nd Year

No. crt.	Course	Code	3 rd Semester					4 th Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
1.	Expert Software CAD/CAM/CAE	SMSEXP	2		1	1	5						
2.	Modelling, Simulation and Optimization of Processes	SMMSOP	1		2		5						
3.	Total Quality Management	SMMCT	1	2			5						
4.	European Programs and Strategies in the Field of Advanced Materials	SMPESD	1			1	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	

