Transilvania University of Braşov, Romania

Study program: Welding Engineering Advanced Materials

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) 1st Year

No.	Course	Code	Language of instructions	1 Semester					2 nd Semester				
crt.				С	S	L	Р	Cred	С	S	L	Р	Cred
1	Advanced Materials Science	SMSMAV	Romanian	1		1		4					
2	Advanced Materials Engineering	SMIMAV	Romanian	1		1		4					
3	Behavior of advanced materials for welding	SMCMAS	Romanian	2		1		6					
4	Welding processes	SMPRSU	Romanian	2		2		6					
5	Welding engineering terminology - English	SMTISE	Romanian	1	1			4					
6	Methods and computer software for welding processes and technologies	SMMPCS	Romanian						1		2		6
7	Welding related processes	SMPCOS	Romanian						2		2		6
8	Modern welding sources	SMSMOS	Romanian						2		1		6
9	Testing and examination methods in welding	SMIMES	Romanian						1		2		6
10	Construction and design of welded structures	SMCDSS	Romanian						2		1		6

2 nd Year

No.	C	Code	Language of		3rd S	eme	ster		4 th Semester				
crt.	Course		instructions	С	S	L	Р	Cred	U	S	L	Р	Cred
1	Elements of reliability in welding	SMEFBS	Romanian	1		2		6					
2	Elements of applied engineering in welding	SMEIAS	Romanian	1		2		6					
3	Systemic manufacturing of welded structures	SMFSSS	Romanian	2		1		6					
4	Modelling in welding engineering	SMMISU	Romanian	1		1		6					
5	Ecological materials for welding	SMPEPS	Romanian	1		2		4					
6	Project Management in Welding Engineering	SMMPCS	Romanian						1		1		4
7	Clean technologies for welding	SMTCUS	Romanian						2		1		4
8	Practical Activity and Scientific Research for Development of the Dissertation Thesis	SMADCS	Romanian									16	15
9	Dissertation examination	SMEXDI	Romanian										15