Transilvania University of Braşov, Romania

Study program: Welding Engineering of 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. crt.	Course	Code	1st Semester					2nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
1	Advanced Materials Science	SMSMAV	1		1		4					
2	Advanced Materials Engineering	SMIMAV	1		1		4					
3	Behavior of advanced materials for welding	SMCMAS	2		1		6					
4	Welding processes	SMPRSU	2		2		6					
5	Welding engineering terminology - English	SMTISE	1	1			4					
6	Methods and computer software for welding processes and technologies	SMMPCS						1		2		6
7	Welding related processes	SMPCOS						2		2		6
8	Modern welding sources	SMSMOS						2		1		6
9	Testing and examination methods in welding	SMIMES						1		2		6
10	Construction and design of welded structures	SMCDSS						2		1		6

2nd Year

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