

Transilvania University of Braşov, Romania

Study program: Energy Modernization in the Built Environment

Faculty: Civil 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	1 st Semester					2 nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Elements of applied mathematics	EMA01	2	2			7					
02	Advanced numerical analysis	ANA01	2	2			7					
03	Systems and measuring equipment and specific data acquisition and facilities construction	SEMADSCI	2		2		8					
04	Integrated renewable energy systems in the built environment	SERMC	2			2	8					
Route 1												
05	Rheology of Construction materials	RMC02						2		2		7
06	Materials, technologies and modern equipment in construction	MTEMC						2			2	6
07	Rehabilitation of infrastructure and the foundation soil	RICTF						2			2	8
08	Ethics and academic Integrity	EIA						1				2
09	Modern structure for prestressed concrete	SMBPO2						2		2		7
	Design of structures to earthquakes	CSAS02										
Route 2												
05	Comfort in buildings	CAC02						2		2		7
06	Modern systems of heating and district hot water for buildings	SMIPAAC						2			2	7
07	Efficient ventilation and air conditioning systems	SEVCA						2	2			7
08	Equipment in buildings using solar energy	IUCBES						2		2		7
09	Ethics and academic Integrity	EIA						1				2
Route 3												
05	Rheology of construction materials	RMC02						2		2		7
06	Rehabilitation of infrastructure for construction engineering systems	RITCI						2			2	7
07	Materials for constructions engineering systems	MCIO2						2		2		7
08	Computational methods for modernization and rehabilitation of construction engineering systems	MCRMCI						2		2		7

