Transilvania University of Braşov, Romania

Study program: Simulation and Testing in Mechanical Engineering

Faculty: Mechanical 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)

1 Year

No.	Course	Code		1 st		2 nd Semester						
crt.	Course	Code	С	S	L	Р	Cred	С	S	Ы	Р	Cred
01	Advanced Design Elements (CAD)	CAD	1		2		5					
02	Analysis of Mechanical Structures	ASM	2			2	5					
03	Phyton Programming for Engineering Applications I		1		2		5					
04	Experimental Mechanics	ME	2		1		5					
05	Ethics and Academic Integrity	EIA	1				1					
06	Control of Dynamic Systems	CSD	1		1		5					
07	Practice for design / research					12	4					
08	Multibody Systems I							2		2		5
09	Hybrid Engineering							1		2		5
10	Phyton Programming for Engineering Applications II							1		2		5
11	Practice for design / research										12	5
01	Lightweight Structures	SU					2			1	5	
	Mechanical Systems for Energy Conversion	SMCE										
02	Fatigue life-based design	PDV						2		1		5
	Optimization of Thermal Processes and Installations	OPIT						۷				

2nd Year

No.	Causea	Code		4 th Semester								
crt.	Course		С	S	L	Р	Cred	С	S	L	Р	Cred
01	Structural Optimisation	OS	2	2			5					
02	Modal Analysis	AM	2		1		5					
03	Multibody systems II	SMC II	1		1		5					
04	Modeling and Simulation of Transfer Phenomena (CFD)	MSPT	2		1	1	6					
05	Practice for design / research	PPC III				12	3					
06	Non-linear analysis of deformable solids	ANSD	2		1		6					
	Testing of thermal equipments	TET			ı		Ö					
07	Practice for research	PC									22	20