

Transilvania University of Braşov, Romania

Study program:

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

st
1 Year

No. crt.	Course	Code	Semester I					Semester II				
			C	S	L	P	Cred	C	S	L	P	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										
	Mechanical Systems for Energy Conversion	SMCE						2			1	5
02	Fatigue life-based design	PDV						2		1		5

	Optimization of Thermal Processes and Installations	OPIT											
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2nd Year

No. crt.	Course	Code	Semester III					Semester IV					
			C	S	L	P	Cred	C	S	L	P	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						
03	Non-linear analysis of deformable solids	ANSD	2		1		6						
	Testing of thermal equipments	TET											
06	Practice for research	PC									22	20	