Transilvania University of Braşov, Romania

Study program: Mechanical Engineering (in English)

Faculty: Mechanical Engineering

Study period: 4 years (bachelor)

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 – is not available in 2021-2022

No.	Course	Code	1 Semester						2 nd Semester					
crt.	eou.se		C	S	L	Р	Cred	C	S	L	Р	Cred		
01	Mathematical Analysis	ANAM	m	2			5							
02	Descriptive Geometry	GD	2		2		5							
03	Chemistry	CHIM	2		1		4							
04	Materials Science and engineering	STM	2		1		З							
05	Technology of materials	TM	2		1		3							
06	Applied informatics	INFA	2		2		5							
07	Communication and ethics	СОМ	2	1			3							
	Foreign Language English I+II	LE01/LE02												
08	Foreign Language French I+II	LF01/Lf02	1	1			2	1	1			2		
	Foreign Language German I+II	LG01/LG02												
09	Physical Training I / II	EF01/EF02		1			(1)		1			(1)		
10	Linear Algebra, Analytical and Differential	AGAD						2	Э			5		
10	Geometry	AdAb						۷	٦			J		
11	Technical Drawing and Infographics I	DT01						2		2		5		
12	Physics	FIZI						2		1		4		
13	Mechanics I	MEC1						3	1	1		5		
14	Computers Programming and Programming	PCL						2		2		5		
14	Languages	PCL						2				ט		
15	Electrical Engineering and Electrical Machines	ELME						2		1		4		

2nd Year – is not available in 2021-2022

No.	Course	Code		3 rd	Sem	este	er	4 th Semester					
crt.	Course	code	U	S	L	Р	Cred	U	S	L	Р	Cred	
01	General Economics	ECON	1	1			3						
02	Technical Drawing and Infographics II	DT2	1		3		5						
03	Mechanics II	MEC2	3	2	1		6						
04	Strength of materials I	RM1	2	2	2		6						
05	Special Mathematics and Mathematical	MSSM	2	2			4						
	Statistics	ואוככואו	J	_			_						
06	Electronics applied	ELEA	2		1		4						

	Foreign Language English III + IV	LE03/LE04									
07	Foreign Language French III + IV	LF03/Lf04	1	1		2	1	1			2
	Foreign Language German III + IV	LG03/LG04									
80	Physical Training and Sport III / IV	EF03/EF04		1		(1)		1			(1)
09	Numerical Methods	MNUM					2		2		3
10	Fluids Mechanics and Hydraulic Machines	MFMH					2		2		4
11	Strength of materials II	RM2					3	1	1		5
12	Mechanisms	MECS					3		1	1	5
13	Computer assisted design	PAC					2		1	1	4
14	Tolerances and Dimensional Control	TCD					2		1		3
15	Technological Practical Placement	PT1							ours este		4

3rd Year – is not available in 2021-2022

No.	Course	Codo		5 th	Sen	neste	<u>∙</u> r		≥r				
crt.	Course	Code	С	S	L	Р	Cred	С	S	L	Р	Cred	
01	Thermotechnics and Thermal Machines	TMT	2	1	2		5						
02	Machine tools and cutting	MUPA	2		1		3						
03	Mechanical Vibrations	VIBR	2	1	1		5						
04	Hydro-Pneumatic Drives	AHP	2		1		4						
05	Machine Elements II	OM2	2		1	2	5						
06	Elasticity and Plasticity	ELPL	2	2			5						
07	Experimental Methods in Mechanical	MEIM	2		1		3						
07	Engineering		IVIEIIVI	IVIEIIVI	2		'		3				
80	Finite Element Method I	MEF1						2		2	1	5	
09	Mechanics of Composite Materials	MMC						2	2			5	
10	Computer assisted design	PAC						2		1	1	4	
11	Manufacturing technology	TEF						1			2	3	
12	Tribology	TRIB						2		1		3	
	Vibration of machinery and equipment (O1)	VIMU											
13	Vibroacoustic diagnosis of mechanical	DIAG						2		2		3	
	structures (01)	DIAG											
14	Fatigue of materials (O2)	OBSM						٦_	1	1		3	
14	Reliability of mechanical systems (02)	FIAB						2				<u> </u>	
15	Practical Placement 90 hours/year	PT2							90 h	ours/	/	4	
15		PIZ							seme	ester		4	

4thYear – is not available in 2021-2022

No.	Course	Code	7 th Semester					8 th Semester					
crt.	Course	coue	С	S	L	Р	Cred	С	S	L	Р	Cred	
01	Special problems of strength of materials	PSRM	2	2			5						
02	Finite Element Method II	MEF2	2		2	1	5						
03	Technical Acoustics	ACTH	2		1		5						
04	(O3) Stability	STAB	7	2	7	1	-						
04	(O3) Active control of mechanical systems	CASM					5						
OF	(O4) Numerical modeling in fluid mechanics	MNMF	- 7	7	1		4						
05	(O4) Transfer phenomena	FETR		2									

06	Sustainable development in Mechanical Engineering	DEZD	1	1		3					
07	(05) Thermal Equipment Design	PECT	_		_						
07	(O5) Refrigeration and heating installations	IFTE	2		1	3					
00	(O6) Energy efficiency in Mechanical Engineering	EFEN					,	1			3
80	(O6) Energy audit	AUDE					2	'			3
09	Dynamics of Mechanical Structures	DINS					2	1		1	4
10	Plates and shells	PLIN					2	2			3
11	Optimizations in Mechanical Engineering	OPTI					2	1		1	3
17	(O7) Rheology	REOL					,	٦			3
12	(07) Contact mechanics	MECO					2	2			3
42	(O9) Quality Management in Industry	MACA					1	1			,
13	(O9) Industrial Project Management	MPI					2	'			4
14	Diploma Project Develop	PDIP								4	5
							6	houi	's x ´	10	
15	Practice for Diploma Project	PR3					W	veek:	s = 6	0	5
15	Practice for Diploma Project	PK3						hou	ırs/		כ
							:	sem	estei	•	