Transilvania University of Braşov, Romania

Study program: Optometry

Curriculum for ERASMUS + students

Faculty: Product Design and Environment

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)

1⁵t Year

No.	Course	Code	Language of		1 st S	Sem	este	r	2 nd Semester						
crt.	Course	Code	instruction	C	S	ᆜ	Р	Cred	C	S	L	Р	Cred		
1.	Mathematical Analysis	ANMA	Romanian	2	З			5							
2.	Materials Science and Technology	STMA	Romanian	3		2		5							
3.	Chemistry	CHIM	Romanian	2		1		4							
4.	Computer-aided Graphics I	GRAC1	Romanian	2		2		5							
5.	Computer Programming and Programming Languages I	PCLP1	Romanian	1		2		4							
6.	Introduction to Optometry	IOPT	Romanian	2		2		4							
	Foreign Languages - English	LE1	English												
7.	Foreign Languages - French	LF1	French	1	1			2							
/.	Foreign Languages - German	LG1	German	'											
	Foreign Languages - Espanol	LS1	Spanish												
8.	Physical Training and Sport I	EFS1	Romanian		1			1							
9.	Linear Algebra, Analytical Geometry and Differential Equations	AGAD	Romanian						2	2			4		
10.	Applied Mechanics	MECA	Romanian						3	2			5		
11.	Electrotechnics	ELTH	Romanian						2		1		3		
12.	Physics	FIZI	Romanian						2	1			3		
13.	Computer-aided Graphics II	GRAC2	Romanian						2		2		4		
14.	Computer Programming and Programming Languages II	PCLP2	Romanian						1		2		4		
15.	Communication. Ethics and Academic Integrity	CEIA	Romanian						1	1			2		
	Foreign Languages - English	LE2	English												
16.	Foreign Languages - French	LF2	French						1	1			2		
16.	Foreign Languages - German	LG2	German						1	ı					
	Foreign Languages - Espanol	LS2	Spanish												
17.	Physical Training and Sport II	EFS2	Romanian							1			1		
18.	Practical Work (30 hours)	PRAC1	Romanian										2		

2nd Year

No.	Co.,,,,,,	ر ماء ا		3 rd S	eme	ster		4 th Semester						
crt.	Course	Code	instruction	C	S	L	Р	Cred	С	S	L	Р	Cred	
1.	Special Mathematics and Mathematical	MSSM	Romanian	2	2			4						
١.	Statistics	ואוככואו	Nomanian					4						
2.	Applied Informatics	INAP	Romanian	2		2		5						
3.	Electronics	ELEC	Romanian	2		1		4						
4.	Biomechanics	BMEC	Romanian	2		2		4						
5.	Physiological Optics I	OPFZ1	Romanian	2		2		4						
6.	Opto-electronics	OPEL	Romanian	2		2		4						
7.	Anatomy and Physiology	ANFZ	Romanian	1		1		2						
	Foreign Languages - English	LE3	English											
8.	Foreign Languages - French	LF3	French	1 1	1			2						
0.	Foreign Languages - German	LG3	German					2						
	Foreign Languages - Espanol	LS3	Spanish											
9.	Physical Training and Sport III	EFS3	Romanian		1			1						
10.	Mechanisms and Elements of Precision	NAENAE	MEMF	Romanian						3		1		4
10.	Mechanics	IVILIVIE	Rumaman						ر		'		4	
11.	Numerical Methods	MNUM	Romanian						2		2		3	
12.	Geometrical Optics	OPGE	Romanian						1	2		1	4	
13.	Measurement Techniques and Systems I	TDCI	Romanian						2		1		3	
14.	Physiological Optics II	OPFZ2	Romanian						2		2		4	
15.	Technical Drawing and Infographic	DTIG	Romanian						1		2		3	
16.	Processing Technologies	THPL	Romanian						2		1		3	
	Foreign Languages - English	LE4	English											
17.	Foreign Languages - French	LF4	French						1	1			2	
17.	Foreign Languages - German	LG4	German						'	'			_	
	Foreign Languages - Espanol	LS4	Spanish											
18.	Physical Training and Sport IV	EFS4	Romanian							1			1	
19.	Practical Work (60 hours)	PRAC2	Romanian										3	

3rdYear

No.	Course	Codo	Language of		5 th 9	Semo	este	r	6 th Semester					
crt.	Course t.	Code	instruction	С	S	L	Р	Cred	С	S	L	Р	Cred	
1.	CNC Working Machines	MLCN	Romanian	2		1		4						
2.	Elements of Mechanical and Optical	EIMO	Romanian	2		2		4						
۷.	Engineering	EIIVIO	Rumaman	2		2		4						
3.	Medical Informatics	INME	Romanian	2		2		4						
4.	Measurement and Instrumentation Systems	SMIR1	CMID1	Romanian	2		2		5					
4.	(Ocular Refraction) I		Romanian			۷		כ						
5.	Training Apparatus and Visual Rehabilitation	AARV	Romanian	2		2		5						
6.	Medical Optics and Optics Equipment	OMEO	Romanian	2		2		4						
7.	Medical Optics and Optics Equipment -	OMEOp	Romanian				2	2						
7.	project	ОМЕОР	Rumaman					2						
8.	Optical Materials	MATO	Romanian	1	1			2						
9.	Medical Apparatus Reliability	FIAM	Romanian						2		2		3	
10.	Medical Apparatus Ergonomics	ERGO	Romanian						2		1		2	

11.	Measurement Systems and Instrumentation	MASI	Romanian			2	2		3
12.	Laboratory Testing Apparatus	APLA	Romanian			2	2		4
13.	Measurement and Instrumentation Systems (Ocular Refraction) II	SMIR2	Romanian			2	2		4
14.	Glasses Fitting Technology	TMOD	Romanian			3	2		5
15.	Glasses fitting technology - project	TMODp	Romanian					2	2
16.	Ocular Pathology	FPAT	Romanian			1	1		3
17.	Practical Work (90 hours)	PRAC3	Romanian						4

4th Year

No.	Course	C	Language of	71	7 th Semester				8 th Semester							
crt.		Code	instruction	С	S	L	Р	Cred	С	S	L	Р	Cred			
1.	Micro and Nano Systems Technology	TMNS	Romanian	3		1		4								
2.	Image Processing, Artificial Vision and Medical Imaging	PIVI	Romanian	2		2		4								
3.	Low Vision and Glasses Prescription	VSP0	Romanian	3		2		5								
4.	Low Vision and Glasses Prescription - project	VSPOp	Romanian				2	2								
5.	Optomechatronic systems	SOPM	Romanian	2		1		3								
6.	Contact Lenses	LECO	Romanian	2		2		5								
0.	Contactology	CONT	Romanian					ر								
7.	Contact Lenses - project	LECOp	Romanian				2	2								
7.	Contactology - project	CONTp	Romanian													
8.	Functional Optometry	OFSC	Romanian	2		2		5								
0.	Paediatric Optometry	OFPD	Romanian			2		٥								
9.	Coordinate Measure Machine	MMCO	Romanian						2		2		3			
10.	Psychology of Vision	PSVE	Romanian						2		2		3			
11.	Ethics and Deontology of Optometry Engineering	EDIO	Romanian						1	1			2			
12.	Database and Statistical Processing	BDPS	Romanian						2		2		3			
13.	Marketing and Management	MAMN	Romanian						1	1			2			
14.	Design and Maintenance of Optometric Equipment	PMEO	Romanian						2		2		5			
	Equipment for Functional Interventions	ECIF	Romanian													
15.	Design and Maintenance of Optometric Equipment - project	PMEOp	Romanian									2	2			
15.	Equipment for Functional Interventions - project	ECIFp	Romanian									2	2			
	Equipment for Technical Optometry	ETOP	Romanian													
16.	Optometric Components and Medical Instruments	CIME	Romanian						2		2		5			
17.	Elaboration of the Diploma Project (10 x 2 hours/week + 4 X 28 hours/week)	EPD	Romanian									4	5			