

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)

1st Year

[illegible]

2nd Year

No. crt.	Course	Code	Language of instruction	3 rd Semester					4 th Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
1.	Special Mathematics and Mathematical Statistics	MSSM	Romanian	2	2			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					
8.	Foreign Languages - English	LE3	English	1	1			2					
	Foreign Languages - French	LF3	French										
	Foreign Languages - German	LG3	German										
	Foreign Languages - Espanol	LS3	Spanish										
9.	Physical Training and Sport III	EFS3	Romanian		1			1					
10.	Mechanisms and Elements of Precision Mechanics	MEMF	Romanian						3		1		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
17.	Foreign Languages - English	LE4	English						1	1			2
	Foreign Languages - French	LF4	French										
	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

3rd Year

No. crt.	Course	Code	Language of instruction	5 th Semester					6 th Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
1.	CNC Working Machines	MLCN	Romanian	2		1		4					
2.	Elements of Mechanical and Optical Engineering	EIMO	Romanian	2		2		4					
3.	Medical Informatics	INME	Romanian	2		2		4					
4.	Measurement and Instrumentation Systems (Ocular Refraction) I	SMIR1	Romanian	2		2		5					
5.	Training Apparatus and Visual Rehabilitation	AARV	Romanian	2		2		5					
6.	Medical Optics and Optics Equipment	OMEQ	Romanian	2		2		4					
7.	Medical Optics and Optics Equipment - project	OMEQp	Romanian				2	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 II	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. crt.	Course	Code	Language of instruction	7 th Semester				8 th Semester					
				C	S	L	P	Cred	C	S	L	P	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	VSPO	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					
	Contactology	CONT	Romanian										
7.	Contact Lenses - project	LECOp	Romanian				2	2					
	Contactology - project	CONTp	Romanian										
8.	Functional Optometry	OFSC	Romanian	2		2		5					
	Paediatric Optometry	OFPD	Romanian										
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
	Equipment for Functional Interventions - project	ECIFp	Romanian										
16.	Equipment for Technical Optometry	ETOP	Romanian						2		2		5
	Optometric Components and Medical Instruments	CIME	Romanian										
17.	Elaboration of the Diploma Project (10 x 2 hours/week + 4 X 28 hours/week)	EPD	Romanian									4	5