

# Transilvania University of Braşov, Romania

## Study program: Geomatic Engineering

Faculty: Silviculture and Forest 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)

### 1<sup>st</sup> Year

No. crt.	Course	Code	1 <sup>st</sup> Semester					2 <sup>nd</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Mathematical Analysis	AMAT	2	2	-	-	3	-	-	-	-	-
02	Linear Algebra, Analytical and Differential Geometry	ALGAD	2	2	-	-	4	-	-	-	-	-
03	Descriptive Geometry	GD	2	-	2	-	4	-	-	-	-	-
04	Physics	FIZ	2	-	1	-	4	-	-	-	-	-
05	Equipment and Methods Used in Land Surveying	IGMM	2	-	2	-	5	-	-	-	-	-
06	Engineering Drawing and Computer Aided Design	DTI	2	-	2	-	5	-	-	-	-	-
07	Chemistry	CHIM	1	-	1	-	2	-	-	-	-	-
08	Academic Writing	SAC	1	-	-	-	1	-	-	-	-	-
09	Numerical Methods	MN	-	-	-	-	-	2	2	-	-	3
10	Applied Mathematics	MATS	-	-	-	-	-	1	1	-	-	2
11	Constructions	CGC	-	-	-	-	-	2	-	2	-	4
12	Topography I	TOPO1	-	-	-	-	-	2	-	2	-	5
13	Basics of Mathematical Physics	EFM	-	-	-	-	-	1	-	1	-	2
14	Astronomical Geodesy	AG	-	-	-	-	-	2	-	2	-	4
15	Probability Theory and Mathematical Statistics	TPSM	-	-	-	-	-	2	-	1	-	2
16	Practical Training I	PRDOM1	-	-	-	-	-	-	-	-	-	4
17	Management	MAN	-	-	-	-	-	1	1	-	-	2
18	English Language	LE01/LE02	1	1	-	-	-	2	1	1	-	2

### 2<sup>nd</sup> Year

No. crt.	Course	Code	3 <sup>rd</sup> Semester					4 <sup>th</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Introduction to Computer Science	PCLP1	2	-	2	-	4	-	-	-	-	-
02	Ellipsoidal Geodesy	GE	2	-	2	-	5	-	-	-	-	-
03	Measurement Adjustment and Mathematical Statistics I	CMSM1	2	-	2	-	5	-	-	-	-	-
04	Topography II	TOPO2	2	-	2	-	5	-	-	-	-	-
05	Topography project	PRTOPO2	-	-	-	2	2	-	-	-	-	-
06	Remote Measurement by Waves	MGUN	2	-	2	-	4	-	-	-	-	-

07	Computer Programming and Programming Languages	PCLP2	-	-	-	-	-	2	-	2	-	4
08	Measurement Adjustment and Mathematical Statistics II	CMSM2	-	-	-	-	-	2		2		4
09	Geodetic Gravimetry	GG	-	-	-	-	-	2		1		4
10	Geodesy	GEO	-	-	-	-	-	2		1	2	5
11	Computer-Aided Graphics	GAC	-	-	-	-	-	2		2		3
12	Geodetic Data Processing	TPMD	-	-	-	-	-	1		1		2
13	Practical training II	PRDOM2	-	-	-	-	-	-	-	-	-	4
14	Environment Protection	PM	2	-	1	-	3	-	-	-	-	-
15	Physical Geography	GF	-	-	-	-	-	2	-	1	-	2
16	English Language	LE03/LE04	1	1	-	-	2	1	-	1	-	2

### 3<sup>rd</sup> Year

No. crt.	Course	Code	5 <sup>th</sup> Semester					6 <sup>th</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Cartography	CART	2	-	2	-	4	-	-	-	-	-
02	Cadaster I	CAD1	2	-	2	-	5	-	-	-	-	-
03	National and Local Geodetic Networks	RGNL	2	-	2	-	4	-	-	-	-	-
04	Land Use Planning and Ecology	OTE	2	-	2	-	4	-	-	-	-	-
05	Geometric Basis of Photogrammetry	BGF	2	-	2	-	4	-	-	-	-	-
06	Geodetic, Cadastral and Photogrammetric Information Systems	SIGCF	-	-	-	-	-	2	-	2	-	4
07	Engineering Measurements I	MI1	-	-	-	-	-	2	-	2	-	4
08	Cadaster II	CAD2	-	-	-	-	-	2	-	2	-	4
09	Cadaster project	PRCAD2	-	-	-	-	-		-	-	2	2
10	Photogrammetry I	FOTO1	-	-	-	-	-	2	-	2	-	4
11	Transportation Infrastructure	CCIT	-	-	-	-	-	2	-	2	-	3
12	Professional Training	PRSP	-	-	-	-	-		-		-	4
13	Cartographic Projections	PC	2		2		4	-	-	-	-	-
14	Satellite Geodesy	GS	-	-	-	-	-	2	-	3	-	5
15	Automatic Processing of Geodetic Data	PADG	2	-	-	2	5	-	-	-	-	-

### 4<sup>th</sup> Year

No. crt.	Course	Code	7 <sup>th</sup> Semester					8 <sup>th</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Real Estate Valuation	EVI	2	-	2		4	-	-	-	-	-
02	Photogrammetry II	FOTO2	2	-	1	2	5	-	-	-	-	-
03	Engineering Measurements II	MI2	2	-	1	-	4	-	-	-	-	-
04	Engineering Measurements Project	PRTIG2	-	-	-	2	2	-	-	-	-	-
05	Remote Sensing	TELE	2	-	2	-	5	-	-	-	-	-
06	Urban Networks	RED	2	-	1	-	4	-	-	-	-	-
07	General Law	ID	1	1	-	-	2	-	-	-	-	-
08	Hydrotechnical Constructions	CH	-	-	-	-	-	2	-	1	-	3
09	Land and Urban Planning	ATU	-	-	-	-	-	2	-	2	-	3
10	Geodetic Management	OLG	-	-	-	-	-	2	-	1	-	2

11	Land Surveying in Mining Operations	MS	-	-	-	-	-	2	-	1	-	4
12	Cadastral Law	LFC	-	-	-	-	-	2	-	2	-	3
13	Elaboration of the BSc Thesis	PRD1	-	-	-	-	-	-	-	-	4	4
14	Geographic Information Systems	GIS	2	-	2	-	4	-	-	-	-	-
15	Special Land Surveying	RTS	-	-	-	-	-	2	-	2	-	4
16	Monitoring of Land and Constructions	UCTC	-	-	-	-	-	1	-	1	-	2
17	Practice for the Elaboration of the BSc Thesis	PRD2	-	-	-	-	-	-	-	-	-	5