

RIGA TECHNICAL UNIVERSITY

Faculty of Civil Engineering

Foreign Students Department

STUDY PROGRAM (international students)

Profile:	Geomatics
Study program:	Bachelor
Duration of studies	4.5 years
Number of credits:	180 Credit Points (CP) or 270 ECTS
Previous education:	Secondary Education
Qualification:	Professional Bachelor degree in Geomatics and Engineering Geodesy and Professional qualification

	RTU program code	ABCE0
A. COMPULSORY COURSES	91 CP	
1. DDM101 Mathematics		9 CP
2. MFB105 Physics		6 CP
3. IUUV101 Fundamentals of Law		2 CP
4. BTB150 Introduction to Civil Engineering and Building		1 CP
5. IDA117 Basics of Occupational Safety		1 CP
6. ICA301 Civil Defence		1 CP
7. HFA101 Sport Activity		0.0
8. BGE330 Geodetical Measurements Processing		5 CP
9. IET103 Economics		2 CP
10. BBM101 Computer Science (basic course)		3 CP
11. BGE317 Advanced Geodesy		6 CP
12. DIM203 Supplementary Mathematics (for construction engineering)		4 CP
13. BTG131 Descriptive Geometry and Engineering Graphics		2 CP
14. BGE329 Basics of Geoinformation Systems		3 CP
15. BGE206 Global Positioning Systems		2 CP
16. BGE320 Real Estate Valuation Systems		2 CP
17. BGE396 Real Estate Cadastre		3 CP
18. BBM110 Introduction to Structural Analysis		3 CP
19. BGE302 Computer Graphics in Geomatics		5 CP
20. BGE296 Geodesy, basic course		3 CP
21. BGE315 Engineering Geodesy		2 CP
22. BGE300 Photogrammetry		4 CP
23. BGE411 Digital Relief Models		2 CP
24. BGE298 Practical Geodesy		2 CP
25. BGE402 Real Estate Valuation (for engineers)		3 CP
26. BGE313 Astronomy		2 CP
27. BGE427 Fundamentals of Land Management		4 CP
28. BGE331 Cartography		3 CP
29. BGE291 Global Positioning Systems (study project)		2 CP
30. BGE327 Cartography and Photogrammetry (study project)		2 CP
31. BGE328 Geodetic Data Processing (study project)		2 CP
B LIMITED CHOICE	41 CP	
B.1. Specialized courses	33 CP	
1.1. BGE293 Topographic Mapping of Urban Area		2 CP
1.2. BGE428 Geodetic Control of Transportation Structures		2 CP
1.3. BGE502 Geodetic Networks		4 CP

1.4. BGE206	Global Positioning Systems	2 CP
1.5. BGE295	Application Programs in Geomatics	3 CP
1.6. BGE299	Fundamentals of Geomatic Data Processing	4 CP
1.7. BGE401	Land Law	3 CP
1.8. BGE319	Basic Land Information Systems	4 CP
1.9. BGE403	Basic Territorial Planning	3 CP
1.10. BGE407	Surveying Instruments	2 CP
1.11. BGE324	Geodetical Gravimetry	2 CP
1.12. BGE204	Cadastral Surveying	2 CP
1.13. BTB303	Roads (introductory course)	3 CP
1.14. BGE114	Fundamentals of Geomatics	2 CP
1.15. KNF288	Principles of Environmental Engineering	2 CP
1.16. BGE294	Legislation in Geomatics	2 CP
B.2.	Humanities and social sciences	4 CP
2.1. HSP377	General Sociology	2 CP
2.2. HSP375	Sociology of Management	2 CP
2.3. HFL330	Business Etiquette	2 CP
2.4. HSP378	Politology	2 CP
2.5. HFL337	History and Culture of Latvia	2 CP
B.6.	Languages	4 CP
6.1. VIL168	Latvian Language	3 CP
C.	FREE CHOICE COURSES	10 CP
D.	PRACTICE	26 CP
E.	FINAL EXAMINATION	12 CP
1. BGE012	Bachelor Thesis (Including Project)	12 CP
TOTAL:		180 CP