

Professional Bachelor's study programme "Geoinformatics" study plan (full time)

| Course name | Responsible teaching staff name, surname | Volume, CP | Plan | | | | | | | |
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| | | | 1 st year | | 2 nd year | | 3 rd year | | 4 th year | |
| | | | Semester | | | | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Part A | | | | | | | | | | |
| A1. General study courses | | 20 | 6 | 2 | 6 | 1 | 4 | 0 | 1 | 0 |
| Ķīmi1059 Civil protection | Lect. Kristīne Parasiga-Parasiņa | 1 | | | | | | | 1 | |
| VadZ1091 Introduction to management | Prof. Gundars Bērziņš | 4 | | | 4 | | | | | |
| Matel165 Higher mathematics for bachelors of geoinformatics | Assoc. prof. Ingrīda Uljane | 4 | 4 | | | | | | | |
| Ģeog1062 Scientific communication | Assist.prof. Juris Paiders | 2 | | | | | 2 | | | |
| Ģeog1050 Geoinformatics regulations | Lect. Arvīds Ozols | 2 | | | | | 2 | | | |
| Valo1A42 English for students of geoinformatics | Lect. Līga Beļicka | 2 | | 2 | | | | | | |
| Valo1C05 German language for beginners I | Assist. prof. Ieva Blumberga | 2 | | | 2 | | | | | |
| Ģeog1044 Introduction to studies | Lect. Arvīds Ozols | 2 | 2 | | | | | | | |
| VidZ1032 Environment protection | Assist.prof. Imants Kukuļs | 1 | | | | 1 | | | | |
| Valo1A62 Latvian language for beginners I * | Assist.prof. Inta Līsmane | 2 | 2* | | | | | | | |
| A2. Theoretical basic courses and information technology courses of the branch | | 40 | 10 | 8 | 7 | 7 | 4 | 4 | 0 | 0 |

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| DatZ1215 Programming fundamentals with Python | Prof. Jānis Zuters | 4 | 4 | | | | | | | |
| DatZ2186 Software engineering fundamentals | Prof. Jānis Zuters | 4 | | 4 | | | | | | |
| Geog1003 Human geography | Prof. Zaiga Krišjāne | 3 | | | | | 3 | | | |
| DatZ1139 Databases and information systems fundamentals | Prof. Ģirts Karnītis | 3 | | | 3 | | | | | |
| Geog1051 Geographic information systems | Lect. Māris Nartišs | 4 | | 4 | | | | | | |
| Geog2011 Cartography | Assist. prof. Aivars Markots; Assist. prof. Ineta Grīne | 4 | | | 4 | | | | | |
| GeogK002 Study work I | Assist. prof. Aivars Markots | 3 | | | | 3 | | | | |
| GeogK001 Study work II | Prof. Jānis Zuters | 1 | | | | | 1 | | | |
| GeogK003 Study work III | Assist. prof. Aivars Markots | 4 | | | | | | 4 | | |
| Ģeog2013 Earth remote sensing | Assist. prof. Aivars Markots; Lect. Grigorijs Goldbergs | 4 | | | | 4 | | | | |
| Ģeog1058 Fundamentals of physical geography | Lect. Māris Nartišs; Assoc. prof. Solvita Rūsiņa; Assist. prof. Jānis Lapinskis; Prof. Agrita Briede; Asoc. prof. Ivars Strautnieks | 6 | 6 | | | | | | | |
| A3. Internship and State examination | | 32 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 12 |
| ĢeogR001 Internship I | Study programme director | 10 | | | | | 10 | | | |
| ĢeogR002 Internship II | Study programme director | 10 | | | | | | | 10 | |
| ĢeogN002 Bachelor thesis | | 12 | | | | | | | | 12 |

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| B. Branch (professional activity) professional specialization courses in the amount of at least 60 credits | | 62 | 4 | 10 | 7 | 10 | 0 | 16 | 7 | 8 |
| SDSK1214 Mathematical methods in environmental processes modelling | Assoc. prof. Iveta Šteinberga | 4 | | | | 4 | | | | |
| VidZ1008 Data analysis in environmental and geosciences | Prof. Viesturs Melecis | 4 | | 4 | | | | | | |
| DatZ1031 Web technologies I | Assoc. prof. Darja Solodovņikova; Prof. Uldis Bojārs | 2 | 2 | | | | | | | |
| DatZ4023 Information technology project management | Assoc. prof. Zane Bičevska | 2 | | | | | | | | 2 |
| Ģeog1055 Data processing in CAD environment | Lect. Agnis Rečs; Lect. Jurijs Ješkins | 3 | | | 3 | | | | | |
| DatZ3048 Database practice | Assoc. prof. Darja Solodovņikova | 2 | | | | | | 2 | | |
| Ģeog2044 Digital terrain models and geomorphometry | Lect. Māris Nartišs | 2 | | | | | | | | 2 |
| Ģeog2046 Applied GIS I (nature) | Lect. Māris Nartišs; Lect. Arvīds Ozols | 4 | | | | 4 | | | | |
| Ģeog2045 Photogrammetry, LiDAR and UAV | Lect. Grigorijs Goldbergs; Lect. Agnis Rečs; Lect. Jurijs Ješkins | 4 | | | | | | 4 | | |
| Ģeog2039 Global Navigation Satellite Systems | Assist. prof. Jānis Karušs; Lect. Jurijs Ješkins | 3 | | 3 | | | | | | |
| Ģeog1004 Geodesy | Lect. Agnis Rečs | 4 | | | | 4 | | | | |
| Ģeog1059 Geographic information infrastructure | Lect. Arvīds Ozols | 2 | | | | | | 2 | | |

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| Ģeog1054 Settlements and Economy of Latvia | Assist. prof. Juris Paiders; Assoc. prof. Pēteris Šķiņķis | 3 | | 3 | | | | | | |
| Ģeog3035 Applied remote sensing | Lect. Māris Nartišs; Lect. Grigorijs Goldbergs | 6 | | | | | | 6 | | |
| Ģeog2047 Applied GIS II (human and society) | Assist. prof Ineta Grīne; Lect. Jānis Krūmiņš | 4 | | | | | | 4 | | |
| DatZ3123 Modelling basics | Assoc. prof. Lelde Lāce | 2 | 2 | | | | | | | |
| DatZ3037 Information Systems Security | Lect. Ilze Murāne | 2 | | | | | | | | 2 |
| Ģeog1065 Branch standards and data quality | Lect. Arvīds Ozols | 2 | 2 | | | | | | | |
| Ģeog3009 Resources and Planning of Territorial Developmental | Assoc. prof. Pēteris Šķiņķis | 4 | | | | | | | | 4 |
| Ģeog2008 Geography of Latvia | Assoc. prof. Māris Bērziņš | 4 | | | 4 | | | | | |
| DatZ3185 Applied deep learning | Assist. prof. Pēteris Paikens | 2 | | | | | | | | 2 |
| Ģeog3030 Landscape geography | Assoc. prof. Anita Zariņa | 3 | | | | | | | 3 | |
| Ģeog3039 Nature Conservation Planning | Assoc. prof. Solvita Rūsiņa | 4 | | | | | | | 4 | |
| VidZ3013 Assessment and management of resources | Prof. Oļģerts Nikodemus; Assist. prof. Zanda Penēze | 4 | | | | | | 4 | | |
| DatZ3068 Semantic Web | Assoc. prof. Uldis Bojārs | 2 | | | | 2 | | | | |
| Ģeog3034 Spatial database management | Lect. Māris Nartišs | 2 | | | | 2 | | | | |
| Ģeog1053 Applied cartography and design | Assist. prof. Aivars Markots; Lect. Arvīds Ozols | 3 | | | | | | | 3 | |
| Ģeog1064 Online course in geosciences | Assist. prof. Aivars Markots | 2 | | | | | | | | 2 |
| DatZ1354 Online courses on IT | Assist. prof. Aivars Markots | 2 | | | | | | | | 2 |

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| VidZ1055 Environmental monitoring and geomatics | Lect. Jānis Bikše | 3 | | 3 | | | | | 3 | |
| VidZ1056 Studies of the Earth gravity and magnetic fields | Assist. prof. Jānis Karušs | 3 | | | 3 | | | | | |
| Part C | | 6 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 |
| Free Elective courses | | 6 | | | | | 2 | 2 | 2 | |
| <i>All parts in total:</i> | | <i>160*</i> | <i>20*</i> | <i>20</i> | <i>20</i> | <i>20</i> | <i>20</i> | <i>20</i> | <i>20</i> | <i>20</i> |
| | | <i>46</i> | <i>6</i> | <i>6</i> | <i>6</i> | <i>6</i> | <i>6</i> | <i>6</i> | <i>5</i> | <i>5</i> |

* International students, who permanently study in the programme and do not have a proof of proficiency in the official language at the A1 level specified by the State Centre for Education of the Ministry of Education must complete the course "Basic Latvian Language Course" in accordance with the requirements of Section 56 of the Law on Higher Education Institutions.