Description of specialties

The master's degree study (3 semesters) in the area of Geodesy and Geoinformatics provides the candidate with extensive knowledge and skills in the field of geodesy and cartography, with special emphasis on the latest technologies for gathering and processing data acquired with the use of remote sensing methods. The offered courses enable the candidate to gradually develop his/her skills in the area of geodesy and geoinformatics. The curriculum includes general and introductory courses offering both theoretical knowledge and practical instruction. The curriculum includes: general and introductory courses (Mathematics, Physical Geodesy, Geostatistics, Earth observations, GIS programming), specialist courses modeling the future surveyor's profile (Advanced geodesy, GNSS surveying, Advanced Satellite Remote Sensing, GNSS data processing and GNSS applications, Satellite navigation). Course includes also occupational training preparing the graduate to perform specialist services in the area of acquiring data for spatial information systems: Information technology in geomatics, GIS modeling and analysis, Database design, Geovisualization, WEB and mobile GIS, Geostatistics. Summer School courses prepare the graduate to perform highly specialized services in the area of Unmanned Aerial Vehicles, Bathymetric Measurements, GPR measurements, GIS project and Cloud GIS. Every student is required to submit a master's degree thesis. The curriculum includes facultative courses providing students with the freedom of planning their educational program. Studies in the area of Geodesy and Geoinformatics prepare the graduate for employment in surveying, cartographic and geoinformatic surveying companies, research institutions and development centers, and in central and local administration units.