1.	**Field of study**	**Geography**
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2019/2020 (winter term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0532 (Earth sciences)
8.	Connection between the field of study and university development strategy, including the university mission	
9.	Number of semesters	4
10.	Degree	magister (Master's Degree)
11.	Specializations	Climatology Exploration of the Polar and Mountain Regions Geographic Information Systems GIS, remote sensing, applications of geodesy Hydrology and Water Management Integrated Environmental Management International Tourism Reconstruction of Geographic Environment Spatial Development Teacher Training Programme
12.	The semester from which the specializations starts	1
13.	Percentage share of scientific or artistic disciplines in education (along with the indication of the leading discipline)	• *[leading discipline]* Earth and related environmental sciences (natural sciences): 85% • social and economic geography and spatial management (social sciences): 15%
14.	Percentage of the ECTS credits for each of the scientific or artistic disciplines to which the learning outcomes are related to the total number of ECTS credits (along with the indication of the leading discipline)	Climatology: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5% Exploration of the Polar and Mountain Regions: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5% GIS, remote sensing, applications of geodesy: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5% Geographic Information Systems:

		• *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5% Hydrology and Water Management: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5% Integrated Environmental Management: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5% International Tourism: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 84% • social and economic geography and spatial management (social sciences): 16% Reconstruction of Geographic Environment: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5% Spatial Development: • social and economic geography and spatial management (social sciences): 90% • *[leading discipline]* Earth and related environmental sciences (natural sciences): 10% Teacher Training Programme: • *[leading discipline]* Earth and related environmental sciences (natural sciences): 95% • social and economic geography and spatial management (social sciences): 5%
15.	Number of ECTS credits required to achieve the qualification equivalent to the level of study	Climatology: 120, Exploration of the Polar and Mountain Regions: 120, GIS, remote sensing, applications of geodesy: 120, Geographic Information Systems: 120, Hydrology and Water Management: 120, Integrated Environmental Management: 120, International Tourism: 120, Reconstruction of Geographic Environment: 120, Spatial Development: 120, Teacher Training Programme: 120
16.	Percentage of the ECTS credits for optional modules in relation to the total number of ECTS credits	Climatology: 81%, Exploration of the Polar and Mountain Regions: 81%, GIS, remote sensing, applications of geodesy: 81%, Geographic Information Systems: 100%, Hydrology and Water Management: 81%, Integrated Environmental Management: 81%, International Tourism: 81%, Reconstruction of Geographic Environment: 81%, Spatial Development: 81%, Teacher Training Programme: 81%

17.	Total number of ECTS credits that a student must obtain in the modules taught	Climatology: 100, Exploration of the Polar and Mountain Regions: 100, GIS, remote sensing, applications of geodesy: 100, Geographic Information Systems: 81, Hydrology and Water Management: 100, Integrated Environmental Management: 100, International Tourism: 100, Reconstruction of Geographic Environment: 100, Spatial Development: 100, Teacher Training Programme: 100
18.	Number of ECTS credits that a student must obtain in modules assigned to disciplines within the humanities or social sciences (not less than 5 ECTS) - in the case of fields of study assigned to disciplines within the fields other than, respectively, humanities or social sciences	Climatology: 5, Exploration of the Polar and Mountain Regions: 5, GIS, remote sensing, applications of geodesy: 5, Geographic Information Systems: 5, Hydrology and Water Management: 5, Integrated Environmental Management: 5, International Tourism: 5, Reconstruction of Geographic Environment: 5, Spatial Development: 5, Teacher Training Programme: 5
19.	Graduation requirements for a particular specialization	Climatology Exploration of the Polar and Mountain Regions Geographic Information Systems • Acquisition of 120 ECTS credits (30 in each semester). • Receive credit for all courses specified in the study program. • Submission of the MSc thesis and receiving positive assessments of this work. • Pass the diploma exam. • Meet other requirements described in the Regulations of the University of Silesia and the Faculty of Earth Sciences. GIS, remote sensing, applications of geodesy Hydrology and Water Management Integrated Environmental Management International Tourism Reconstruction of Geographic Environment

		Spatial Development Teacher Training Programme
20.	Organization of the process of obtaining a degree	
21.	Internships (hours and conditions) in the case of practical programmes and in general university programme - if such requires internship	Geographic Information Systems The aim of field specialization exercises, which are an integral part of the didactic process, is to acquire skills and practical preparation for professional work and to familiarize students with the specificity of work and deepen the knowledge conveyed during classes. Students of Geography have the opportunity to do internships in institutions related to the studied field of study Geography. Internships shall be conducted in accordance with the study plan and shall be subject to credit. During their studies, students are obliged to undergo compulsory fieldwork of the master's degree programme lasting not less than 15 days. The organisation of professional field exercises is the responsibility of the master's thesis supervisor. The aim of the classes is to acquire knowledge necessary during the preparation of the Master's thesis in the field of geography, as well as to acquire skills to perform professional work. Internships are carried out in accordance with the study plan and are subject to credit.
22.	Total number of ECTS credits that a student must obtain in internships	Climatology: 3, Exploration of the Polar and Mountain Regions: 3, GIS, remote sensing, applications of geodesy: 3, Geographic Information Systems: 3, Hydrology and Water Management: 3, Integrated Environmental Management: 3, International Tourism: 3, Reconstruction of Geographic Environment: 3, Spatial Development: 3, Teacher Training Programme: 5
23.	Number of ECTS credits - higher than 50% of the total number of credits - that a student must obtain: • in general university programmes within a module connected with research carried out in the scientific or artistic disciplines to develop his/her knowledge and research skills; • in practical programmes within a module to develop practical skills	Climatology: 87, Exploration of the Polar and Mountain Regions: 85, GIS, remote sensing, applications of geodesy: 87, Geographic Information Systems: 92, Hydrology and Water Management: 87, Integrated Environmental Management: 98, International Tourism: 84, Reconstruction of Geographic Environment: 87, Spatial Development: 87, Teacher Training Programme: 85
24.	General description of the programme	
25.	General description of the specialization	Climatology

		Exploration of the Polar and Mountain Regions Geographic Information Systems General description of the specialization The master's degree study (4 semesters) in the area of Geographic Information Systems (GIS) is intended for students who wish to develop their geographical knowledge based on working in the GIS environment. The curriculum includes general and introductory courses offering both theoretical knowledge and practical skills. Specialized courses include: cartography and geodesy, geoinformation, satellite navigation, web and mobile GIS, satellite and aerial remote sensing, services in the area of unmanned aerial vehicles, terrestrial laser scanning, database management systems, GIS programming and modelling as well as courses covering quantitative and qualitative analyses and applications of GIS in environmental studies and spatial planning. Every student is required to submit a master's degree thesis. Studies in the area of GIS prepare the graduate for employment in local and central administration, spatial planning and landscape architecture, environmental protection units, crisis management centres, business environment companies, geodesy and cartographic enterprises and research institutions. GIS, remote sensing, applications of geodesy Hydrology and Water Management Integrated Environmental Management International Tourism Reconstruction of Geographic Environment Spatial Development Teacher Training Programme