

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

Module: Introduction to hydrological modelling

Module code: 04-GF-S2-1119

## 1. Number of the ECTS credits: 4

2. Learning outcomes of the module					
code	description	learning outcomes of the programme	level of competence (scale 1-5)		
	The student possesses basic knowledge about aims and rules in hydrodynamic hydrological modeling focusing on surface water and groundwater.	KGG2_U01 KGG2_U06	2 1		
	to creates simple models and interpret the results and its capable to creates prognostic simulation.	KGG2_U01 KGG2_U02 KGG2_U03 KGG2_U05	1 1 1		

3. Module description				
	The subject Introduction to hydrological modelling allows the student to be familiar with the basic method of mathematical modeling applied in hydrology and hydrogeology. The subject gives opportunities to know the importance of these studies, their scope and practical applications. The course focuses on practical components. During lessons hours the student has a chance to create itself a simple hydrological and hydrogeological models, analysis the results and provide prognostic simulations.			
Prerequisites				

4. Assessment	Assessment of the learning outcomes of the module				
code	type	description	learning outcomes of the module		
04-GF- S2-1119_w_1	Computational and modeling work	, ,	04-GF-S2-1119_1, 04-GF- S2-1119_2		



04-GF- S2-1119_w_2	Practical test	04-GF-S2-1119_1, 04-GF- S2-1119_2	
04-GF- S2-1119_w_3	, ,	04-GF-S2-1119_1, 04-GF- S2-1119_2	

5. Forms of teaching							
	form of teaching			required hours of student's own work		assessment of the	
code	type	description (including teaching methods)	number of hours	description	number of hours	learning outcomes of the module	
04-GF- S2-1119_fs_1	laboratory classes	Student gets acquainted with methods of modeling research. Discussion on the issues and methodology of the development models. The student becomes familiar with selected examples of the application of such models to resolve environmental issues.		Preparation to the laboratory by consulting with the indicated issues, work with manuals, literature review, consultations.		04-GF-S2-1119_w_1, 04-GF-S2-1119_w_2, 04-GF-S2-1119_w_3	