

Syllabus of a component of a degree programme

Name of a Faculty/ Main organisation	The Baltic University Programme
Name of unit conducting a component	Institute of Geography and Spatial Management (IGiGP UJ), Jagiellonian University, Tatra National Park (TPN)
Name of a component	Sustainable water resources management in high mountains in the Baltic Sea Region (WG.IG.-3130-D)
International Standard Classification of Education ISCED	
Language of education	English
Goals of education	<p>The aim of the workshop is to get a relevant knowledge about organizing a hydrological monitoring network addressed to controlling the influence of different kind of human activity to the high mountain catchments and to get a skill in hydrological measurements with modern instruments applied in hydrological research.</p> <p>During field works all participants will have an opportunity to take part in hydrological measurements with modern instruments and observe a hydrological monitoring system operating in the Tatra National Park supervised by hydrologists from the Department of Hydrology, Jagiellonian University.</p>
Learning outcomes of a component	<p>1. KNOWLEDGE</p> <ul style="list-style-type: none"> - principles of sustainable development - the Tatra Mountains geographical characteristic with focus on water resources - understanding hydrological processes and environmental relationships in high mountain environment <p>2. SKILLS</p> <ul style="list-style-type: none"> - hydrological measurements – field works - ability to evaluate a negative human activity in high mountain environment - recognition the importance of hydrological monitoring in sustainable water resources management in high mountain regions <p>3. SOCIAL AND INTERPERSONAL COMPETENCES</p> <ul style="list-style-type: none"> - ability to share with knowledge and personality with other in broad-international group
Verification methods and assessment criteria of learning outcomes obtained by students	Working in groups on a project focused on the hydrological monitoring network in high mountain environment
Type of a component	Optional module for bachelor, MS, PhD students and for young scientists

Year of study	29-31 May, 2019
Semester	
Mode of study	workshop
Name and surname of the coordinator of a component and/or person/s conducting a component	Joanna Pociask-Karteczka (IGiGP UJ) Marek Kot (TPN)
Name and surname of person/s conducting an examination or granting credit - if it's not a coordinator	Marek Kot Mirosław Źelazny Janusz Siwek
Manner of completion	Project in form of a poster – after lectures and field work in the Bystra Creek Valley (High Tatra Mountains)
Preliminary and additional requirements	-
Type and number of hours of courses requiring direct participation of academic staff and students, if in a given component such courses are included	7 hrs. lectures 7 hrs. seminars 18 hrs. field works in the Bystra Creek catchment (High Tatra Mountains) 2 hrs. reading of literature 5 hrs. preparing specific tasks 4 hrs. consultations with an academic teacher
Number of ECTS credits assigned to a component	Will be established by the IGiGP UJ didactic commission
Balance of ECTS credits	3
Applied teaching methods	- lectures of invited speakers (multimedia presentation + discussion) hydrological measurements in the fields with professional explanation of experts (presence during field work is obligatory) - poster presentation
Form and conditions of passing a component, including conditions of allowing to take an examination, as well as form and conditions of passing each type of courses included in a given component	1) A presentation in form of the poster and speech focused on a model of hydrological monitoring network in high mountain environment dedicated to control an influence of particular kind of human activity to the natural environment of high mountain catchment. 2) Discussion, how the participant assess sustainability in water resources management in the TPN.
Content of a module (with division into forms of courses completion)	Look at attached document – “Preliminary plan of the workshop”