

NAME OF THE COURSE		ECOHYDROLOGY					
Code		Year of study	2., III. or IV. semester				
Course teacher	Ognjen Bonacci, PhD, Professor emeritus	Credits (ECTS)	4.0				
Associate teachers		Type of instruction (number of hours)	L	S	E	F	
			20	10	15		
Status of the course	elective	Percentage of application of e-learning	/				
COURSE DESCRIPTION							
Course objectives	This course enables students to understand the connection between ecology and hydrology and prepares students to perform a wide range of engineering tasks associated with ecohydrology.						
Course enrolment requirements and entry competences required for the course	Undergraduate qualification (6th level of EQF or CROQF) in the technical or natural sciences.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>The student are expected to be able to:</p> <ol style="list-style-type: none"> 1. have an awareness and understanding of the interactions amongst weather, climate, vegetation structure and vegetation function, hydrology and ecology 2. understand the component parts of the catchment water budget 3. explain the various ways in which climate change may influence landscape structure and water 4. determinate of an ecologically acceptable flow 						
Course content broken down in detail by weekly class schedule (syllabus)	Interaction between hydrology and ecology. Concepts of sustainable development. The definition of ecohydrology. Elements of hydrology and water resources fundamental for ecology. Hydrological systems and processes. Impact of global climate changes on hydrological cycle. Floods, flooded and wet areas. Droughts and arid areas. Open flows as the part of ecosystem. Open channel flow management. Environmental requirements for the open channel flows. Principles and problems in determination of an ecologically acceptable flow.						
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input checked="" type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor			
	Regular attendance of classes. Preparation of written assignments.						
Student responsibilities							
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is	Class attendance	2.0	Research		Practical training		
	Experimental work		Report				
	Essay		Seminar essay	0.5			
	Tests		Oral exam	0.5			

<i>equal to the ECTS value of the course)</i>	Written exam	1.0	Project			
Grading and evaluating student work in class and at the final exam	Oral and written tests. Preparation of a written assignment. Oral and written exam.					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	O. Bonacci, Ekohidrologija, Građevinski fakultet Split, 2003.			20		
	Gordon; McMahon; Finlayson; Gipel; Rory; Stream Hydrology: An Introduction for Ecologist; Wiley, 2004.					
Optional literature (at the time of submission of study programme proposal)	1. Paul J. Wood (Editor), David M. Hannah (Editor), Jonathan P. Sadler: Hydroecology and Ecohydrology: Past, Present and Future O., John Wiley&Sons, 2008. 2. O. Bonacci: Oborine-glavna ulazna veličina u hidrološki ciklus, Geing, Split, 1994.					
illey	Quality assurance will be performed at three levels: (1) University level, through questionnaires; (2) Faculty level by Quality Control Committee; (3) Lecturer's level.					
Other (as the proposer wishes to add)						