

COURSE		ENGINEERING HYDROLOGY		
LECTURER		Assoc. Prof. Amra Serdarević Ph.D.		
STUDY	STATUS	SEMESTER	NUMBER OF LESSONS L+E	ECTS
B – CE	Compulsory	4	2+1	4
OBJECTIVES				
<ul style="list-style-type: none"> □ To understand basic processes and principles in the framework of the hydrological cycle and the ability to measure and analyze hydrological phenomena. 				
LEARNING OUTCOMES				
<ul style="list-style-type: none"> □ To apply the acquired knowledge and skills in solving practical problems. Quantitative description of hydrological processes is a necessary prerequisite for planning, design and operation of hydrotechnical facilities and systems. 				
COURSE CONTENT				
<ul style="list-style-type: none"> □ The role of hydrology in planning, design and management of hydro-technical facilities. Water (hydrological) cycle in nature. Measurements of all the variables in the hydrological cycle (Hydrometry). The climatic characteristics that affect the river flow (precipitation, evaporation, interception). Water regime and flow characteristics (average water, low water, high water). Statistical methods for analysis of hydrologic processes. Water Balance. 				
RECOMMENDED LITERATURE				
<ol style="list-style-type: none"> 1. Hrelja, H., 2007: <i>Inženjerska hidrologija</i>, GF Sarajevo 2. Hrelja, H., Isailović D., 1984: <i>Hidrologija-Zbirka riješenih zadataka</i>, GF Sarajevo 3. Hrelja, H., 2000: <i>Vjerovatnoća i statistika u hidrologiji</i>, GF Sarajevo 				
<p>Examination: During the lectures the exam is taken in two parts in writing. Both parts are scored with maximum of 50 points, which makes maximum of 100 points in total..</p> <ol style="list-style-type: none"> a) If a student takes minimum 55% of points on both parts he passed the exam. b) Students who pass one part, on the final exam take in writing only the part that they did not pass. c) Students who do not pass any of the two parts during the lectures take the integral exam in writing. Final score is then determined as: 50% of the points awarded during the classes + 50% of points awarded at the final integral exam. <p>Cancelling exams: Students, who have passed both parts and are not satisfied with the results achieved in one part can take that part again on the final exam.</p> <p>Oral exam: Professor, if necessary, can organize an oral examination for students who have passed the written exam. Based on the success of the oral and written exam the final grade is determined, according to scale by the Law on Higher Education.</p>				