

Study programme: Civil Engineering				
Study level: Undergraduate academic studies				
Course: Hydrology 1				
Course lecturer: Ognjen Gabrić				
Course status: obligatory				
ECTS credits: 6				
Mandatory preceding courses:				
Coarse goals: Introduction to processes in hydrologic cycle and water balance elements, measuring techniques of hydrologic parameters and data processing.				
Course outcome: Student is introduced to major hydrologic principles.				
Course content: <i>Theoretical part of the course</i> Week 1 – Hydrological units and terms: rainfall, runoff, volumes, levels Week 2 – Rainfall data processing Week 3 – Calculation of evapotranspiration Week 4 – Processing water level data Week 5 – Hydrometry Week 6 – Rating curve Week 7 – Flow duration curves Week 8 – Flow hydrograph Week 9 – Water balance Week 10 – Statistical analysis in hydrology 1 Week 11 – Statistical analysis in hydrology 1 Week 12 – Visiting Hydrometeorological service 1 Week 13 – Visiting Hydrometeorological service 1 Week 14 – Extreme river flows Week 15 – Exam preparation <i>Practical part of the course</i> The practical part of the course closely follows the theoretical part.				
Literature: 1. E. Zelenhasić, M. Ruski: Inženjerska hidrologija, Naučna knjiga, Beograd, 1991. 2. E. Zelenhasić,: Stohastička hidrologija, Pan-Merkur, Kaligra, Novi Sad, 1997. 3. S. Jovanović:Parametarska hidrologija, Skripta, Gradjevinski fakultet, Beograd, 1976. 4. S. Jovanović: Primena matematicke statistike u hidrologiji, Gradjevinski fakultet, Beograd, 1977. 5. R. K. Linsley, M. A. Kohler and J. L. H. Paulhus: Hydrology for Engineers, SI Metric Edition, McGraw-Hill Book Company, 1988.				
Number of weekly classes:				
Theoretical classes: 2	Practical classes: 3	Other forms of teaching: 0	Student research: 0	Other forms of classes: 0
Methods of teaching: Theoretical lectures, practical assignments for students, consultations with the course lecturer. (During the semester there will be assignments for the students, which should be completed within one or two weeks. The deadlines for the assignments will be enforced. The assignments will be graded, and if necessary corrected and commented by the course lecturer).				
Grading (maximum number of points: 100)				
Pre-exam obligations	points	Final exam	points	
Work during the semester	50	written exam	50	