

Subject code: FG-204.12-2	Subject name: Applied hydrography					
Study cycle: I	Year: II	Semester: III	ECTS credits: 2			
Status: Optional		Contact hours: 30 Lectures: 15 Exercises: 15				
Assigned professor	rs Teachers and	associates selected	sociates selected in the field to which the			
and assistants:	subject beion	subject belongs				
Prerequisits:	/					
Subject objectives:	To Introduce management environment development Resources Ma water to gain consumption from the hy Execute data regime and w relation of geographical	management, as the growing pressures on the natural environment, including water, are the key issue of sustainable development. Through the introduction of Integrated Water Resources Management and the concept of sustainable use of water to gain knowledge about the daily water requirements, consumption and stocks of water. The acquired knowledge from the hydrography of mainland used to give the area. Execute data processing related to elements of the river regime and water bilance. Categories of river regime placed in relation of physical geographic conditions a given geographical area.				
Teaching units:	 Hydrogra Applied H The importance Fundame Sustainalt Legal issut Erist test Physical- Hydrome The indice Measurint Determint The ration flow and Hypsome Analysis 	 Hydrography - definition, subject and tasks. Applied hydrography in the system of geographic sciences. The importance of water for the environment and a man. Fundamentals of Integrated Water Resources Management. Sustainable use of water. Legal issues in water management. First test. Physical-geographic terms of surface and groundwater. Hydrometric - concept, tasks and hydrometric monitoring. The indicators of water quality. Measuring water levels. Measuring of river flow. Determination of runoff and runoff elements. The ratio of water level and water flow. The ratio of river flow and sediment. Hypsometrical zoning of water in the basin. 				
Learning outcomes	S: Knowledge: • the stude resources • the stude	ent is critically a management; ent acquires know	ware of the issue of water wledge of Integrated Water			





	Reso	urces Management	t and the c	concept of	sustainable	
	water use, as well as knowledge of water needs,					
	consumption and water supplies.					
	Skills:					
	• the s	student independe	ently perfor	rms tasks	related to	
	hydro	ometry;				
	• the s	tudent independer	ntly perform	ns tasks re	lated to the	
	analysis of the elements of the river regime, the calculation					
	of the water balance, as well as the zoning of waters in the					
	basin for the purpose of proper management of water					
	resources;					
	• the student assesses the relationship between physical and					
	geographical factors in the basin, as well as their impact on					
	the water balance;					
	Competencies:					
	• the student independently interprets hydrological					
	concepts, water properties and characteristics of inland					
	waters;					
	• the	student Independ	lently dete	rmines ar	a causally	
	perce	erves the water bar	ance in an a	area anu co	onnects it to	
	une proper management of water resources.					
Tooching mothods.	work educational material analysis and discussion					
reaching methous:	(exercises).					
	(CACICISC	.5	Mavimum	Minimum		
			Points	noints		
	Attendance		5	3		
	Participation on lectures		5	3		
	Tests		40	22		
	Seminar paper (Practicum)		10	6		
	Final exam		40	21		
Knowledge testing	TOTAL		100	55		
methods with grading						
structure ¹ :	Assessment:					
	Grade	ECTS grade	Points sci	ale		
	Grade 10	(A) excellent	95 - 100	ale		
	Grade 10 9	(A) excellent (B) very good	Points sca 95 - 100 85 - 94	ale		
	Grade 10 9 8 7	(A) excellent (B) very good (C) good	Points sco 95 - 100 85 - 94 75 - 84	ale		
	Grade 10 9 8 7 6	(A) excellent (B) very good (C) good (D) satisfactory (E) sufficient	Points sco 95 - 100 85 - 94 75 - 84 66 - 74	ale		
	Grade 10 9 8 7 6 5	(A) excellent (B) very good (C) good (D) satisfactory (E) sufficient	Points sco 95 - 100 85 - 94 75 - 84 66 - 74 55 - 64	ale		

¹ The structure of points and point criteria for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught in accordance with Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton



	Mandatory:					
	1. Spahić, M. (2013): Hidrologija kopna, Sarajevo publishing,					
	Sarajevo					
	2. Vučijak, B. i sar. (2011): Voda za život: Osnove integralnog					
	upravljanja vodnim resursima, UNDP, Sarajevo					
	Recommended:					
··· · · · ·	1. Korjenić, A., Temimović, E. (2016): Praktikum iz					
Literature ² :	Hidrografije kopna I, Prirodno-matematički fakultet u					
	Sarajevu, Sarajevo.					
	2. Hrelja, H. (2007): Inženjerska hidrologija, Građevinski					
	fakultet Univerziteta u Sarajevu, Sarajevo					
	3. Spahić M at all. (2015):Potamološki monitoring na rijekama					
	Bosne i Hercegovine u funkciji upravljanja i prostornog					
	planiranja, Acta geographica Bosniae et Herzegovinae, 3,					
	pp. 31-40					

 $^{^2}$ The Senate of the higher education institution as an institution or a council of the organizational unit of the higher education institution as a public institution determines mandatory and recommended textbooks and manuals, as well as other recommended literature on the basis of which exams are prepared by a special act which is required to be published on its website before the beginning of the academic year in accordance with Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton.