

Study program		Study cycle	First study cycle		
		Orientation	<b>Regional and Spatial Planning</b>		
<b>SUBJECT</b>					
Subject name		<b>Climate and water in regional and spatial plans</b>			
Subject code	Semester	Subject status		ECTS credits	Contact hours
RPP- 406-2	VII	mandatory		5	125
Prerequisites					
Assigned professors and assistants	Subject Leader	Dr. Sc. Nusret Drešković, full professor Dr. Sc. Aida Korjenić, associate professor			
	Teaching Assistants	MA Amina Sivac, senior assistant			
Subject objectives	<p>The main objectives are:</p> <ul style="list-style-type: none"> <li>- Exploring and acquiring knowledge about the application of climatic resources in regional and spatial plans;</li> <li>- Exploring and acquiring knowledge about the application of the water resources in the regional and spatial plans;</li> <li>- Exploring and acquiring knowledge about the content and structure of sets of thematic climatic and hydrological maps for the purposes of identification and evaluation of hydro-climatic potential in the regional and spatial plans;</li> <li>- Exploring and acquiring knowledge about the application of modern GIS models and techniques of remote sensing in the evaluation of hydro-climatic potential in regional and spatial plans;</li> <li>- Exploring and acquiring knowledge about water and climate resources for the purpose of regional and spatial plans in Bosnia and Herzegovina</li> </ul>				
<b>SUBJECT CONTENT</b>					
#	Teaching units	Contact hours			
		L	P	S	C
1.	Hydro-climatic basis of regional and spatial plans. Methodological concept of identification and evaluation of basic hydro-climatic parameters in spatial plans of different levels of regional and spatial planning.	2	1	1	
2.	The main climatic elements and their application in spatial plans of different levels of regional and spatial planning. Solar radiation and duration of sunshine - evaluation and implementation in regional and spatial plans. Application of annual and seasonal isohel maps in regional and spatial plans. Practical analytical work of students on selected examples.	2	3	2	1
3.	Valorisation of air temperatures in regional and spatial plans. Application of annual and seasonal maps of isotherms in regional and spatial plans. Practical analytical work of students on selected examples.	2	3	2	1
4.	Valorisation of humidity and cloudiness in regional and spatial planning. Application of annual and seasonal isohygro and isoneph maps - in regional and spatial plans. Practical analytical work of students on selected examples.	2	2	1	
5.	Valorisation of precipitation in regional and spatial planning. Application of annual and seasonal isohyet maps in regional and spatial plans. Practical analytical work of students on selected examples. Valorisation of wind in regional and spatial plans. Application of annual season maps of wind speed and direction in regional and spatial plans. Practical analytical work of students on selected examples.	2	3	2	1
6.	Weather disasters in regional and spatial plans. Application of annual and seasonal maps of weather disasters in regional and spatial plans. Practical analytical work of students on selected examples. Valorisation of climate types in regional and spatial plans. Development and implementation of climate types maps in regional and spatial plans. Practical analytical work of students on selected examples.	2	2	1	1
7.	The first test	2			

8.	The Basics of integrated water resources management. Legal issues in water management. Sustainable use of water.	2	1	2	
9.	Water supply in regional and spatial plans of different levels of planning. Water supply of the population and economy in regional and spatial plans of different levels of planning.	2	2	2	1
10.	Valorisation of watercourses in regional and spatial plans. Application of maps of streams and river profiles in regional and spatial plans. Practical analytical work of students at selected examples.	2	3	1	1
11.	Valorisation of lakes in regional and spatial plans. Application of maps of lakes in regional and spatial plans. Practical analytical work of students on selected examples.	2	2	1	1
12.	River sources - valorisation and application in regional and spatial planiranju. Application of maps of sources in regional and spatial plans. Practical analytical work of students on selected examples.	2	2	1	1
13.	Defining and valorisation of water protection zones in regional and spatial plans. Implementation of measures to protect water protection zones in regional and spatial plans. Practical analytical work of students on selected examples.	2	3	2	1
14.	Waste water in regional and spatial plans. Surveying and mapping sewage.	2	2		1
15.	Measures to protect the population and adequate economic branches of wastewater in regional and spatial plans. Practical analytical work of students on selected examples.	2	1	2	

### STUDENT WORKLOAD (HOURS)

Contact Hours (L+P)	60	Practical work	15	Seminars	20	Exam study time	10
Literature – reading	10	Written papers		Other (state)	10	TOTAL	125

LITERATURE		EVALUATION OF KNOWLEDGE AND CRITERIA		
Required		PARAMETERS	Maximum Points	Minimum points
1.	Hadžić, E. (2013): Osnove zaštite podzemnih voda u granularnim sredinama, Građevinski fakultet Univerziteta u Sarajevu, Sarajevo.	1. Attendance	5	3
2.	Vučijak B. i sar. (2011): Voda za život: Osnove integralnog upravljanja vodnim resursima, UNDP, Sarajevo	2. Participation on lectures	5	3
3.	Đorđević, J. (2004.): Tipologija fizičko-geografskih faktora u prostornom planiranju. Beograd.	3. Midterm exams	40	22
		4. Seminar	10	6
		5. Students project		
		6. Final exam	40	21
		Total	100	55
Recommended				
1.	Grupa autora (2012.): Prostorni plan Federacije Bosne i Hercegovine – planski period: 2008. – 2028. Urbanistički zavod BiH, IPSA Sarajevo i Ekoplan Mostar. Sarajevo - Mostar.			
2.	Grupa autora (2008): Prostorni plan Republike Srpske do 2015. Banja Luka.			
3.	Grupa autora (2012.): Prostorni plan Nacionalnog parka Una. Urbanistički zavod BiH. Sarajevo.			