

UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE SUBJECT DESCRIPTION

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Subject code: FG-102.5-3	Subject name: Climatology				
Study cycle: I	Year: I		Semester: II	ECTS credits: 5	
Status: Mandatory			Contact hours: 60 Lectures: 30 Exercises: 30		
Assigned professors and assistants:		Teachers and associates who are selected for the teaching area to which the subject belongs.			
Prerequisits:		/			
Subject objectives:		 Introduction 	es in the atmospher and weather condition cing and acquiring entals of climate classification and acquiring knows of a cquiring and acquiring cal foundations of ers of spatial-temporal Koppen climate classification and acquiring knows and Herzegovina; cing and acquiring knows of cities and the ife and humans; cing and acquiring	knowledge with the fication; nowledge about the most and climatic types; knowledge about the quantitative-qualitative dynamics of major climate fication; owledge about the climatic and climatic regionalization knowledge about climatic e impact of climate change knowledge about the natic regionalization of the	
Teaching units:		air front 2. Baric sy Types develop 3. Monsoo monsoo Geograp 4. Climato and cl	cs. ystems. Cyclones - cr of cyclones. Anticy ment. Types of anticycl ns circulation. Geogra ns. Meterological disa phical distribution of malogy - concept, objecti assification. Climate	ones. ophical distribution of the sters - types and effects. eterological disasters. ves, tasks, object of study	

Form SP2



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- importance. Classification of climate. Solar and physical climate.
- 5. Climates definitions and classifications. The principles of climate classification. Climate indexes. Climate classification according to E. De Marton. Geographical distribution of climate types and climatic variations according to E. De Marton.
- 6. Climate classification according to B.P.Alisov. Geographical distribution of climate types according to B.P.Alisov. Climate classification according to C.W. Thornthwaite. Geographical distribution of climate types according to C.W.Thornthwaite. Climate classification for technology purposes.
- 7. Test
- 8. Climate classification according to W.Köppen basics of classification, climate indexes and division. Main climate classes. Main climate types and climate subtypes. The tropical rainforest climate. Geographical distribution of tropical rainforest climate.
- 9. Arid climate. Geographical distribution of arid climate. Moderately warm and rainy climate. Geographical distribution of moderately warm and rainy climate. Snowy-forests climate. Geographical distribution of snowy-forests climate. Geographical distribution of snowy-forests climate.
- 10. European climate according to W.Köppen climate classification. Geographical distribution of major climate elements in Europe. Geographical distribution of climate classes, the main types of climate in Europe. Climate of non-European continents according to W.Köppen climate classification.
- 11. Geographical distribution of major climate elements of the non-European continents. Geographical distribution of climate classes, the main types of climate of the non-European continents.
- 12. Bosnia and Herzegovinas' climate according to W. Köppenov climate classification. Geographical distribution of major climate elements in Bosnia and Herzegovina. Geographical distribution of climate classes, the main types of climate and climate subtypes in Bosnia and Herzegovina.
- 13. Fluctuations and climate variations. Climate and climate change in the instrumental period. Climate and climate change in the Holocene. Climate and climate change in





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	the geological history of the Earth. Theories of climate fluctuation and climate cycles. 14. Spatial differentiation of the climate. Climate of the cities and the environment. The influence of climate on the living world. Humans and climate. 15. Climate impact on the biosphere. Climate and mankind. Knowledge: 1. Acquiring knowledge about types of meteorological weather and contemporary climates in the physical environment of the Earth; 2. Acquiring knowledge about spatial and temporal dynamics of main climatic elements; 3. Acquiring knowledge about the weather and climate of the world, continents, world oceans and selected land regions. 4. Acquiring knowledge about climate change within planetary climate system.			
	Skills:			
	1. Knowledge of selected methods of climatological			
	statistics in processing, graphic presentation and interpretation of			
	1. climatological data for the purpose of typifying types of weather and climates on a macro, meso and micro level;			
Learning outcomes:	2. Knowledge of instrumental meteorological monitoring and methodology of meteorological measurements for the purpose of defining general and specific meteorological characteristics of the analyzed climates system;			
	3. Understanding of general geo-environmental conditions and knowledge of their impact mechanisms on local climate systems;			
	Competencies:			
	1. Defining the effect of the local climate system on infrastructural facilities within urban areas;			
	2. Defining the interrelationships and influence of			
	geographical factors to climate and vice versa; 3. Knowledge and understanding of valorization			
	methods of valorization of climatic elements for the			
	needs of tourist planning, 4. Knowledge of methods for evaluating climate potential for the development of special forms of tourism.			
	Multimedia presentation and discussion (lectures); practical			
Teaching methods:	work, educational material analysis and discussion			





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	(exercises).			
	Points			
	Attendance 5			
	Participation on lectures 5			
	Tests 40			
	Seminar paper 10			
	Final exam 40			
Knowledge testing	TOTAL 100			
methods with grading	Aggaggmant			
structure ¹ :	Assessment:			
	Grade ECTS grade Points scale			
	10 (A) excellent 95 - 100			
	9 (B) very good 85 - 94			
	8 (C) good 75 - 84			
	7 (D) satisfactory 66 - 74			
	6 (E) sufficient 55 - 64			
	5 (F, FX) insufficient 55			
	MANDATORY:			
	– Šegota, T. Filipčić, A. (1996): Klimatologija za geografe,			
	Školska knjiga, Zagreb.			
	– Milosavljević, M. (1988): Praktikum iz klimatologije sa			
	meteorologijom			
	ADDITIONAL:			
Literature ² :	– Milosavljević, M. (1988): Meteorologija, Naučna knjiga,			
	Beograd. Milosavljević, M. (1988): Klimatologija, Naučna			
	knjiga, Beograd			
	– Penzar, I., Penzar, B. (1985): Agroklimatologija, Školska			
	knjiga, Zagreb.			
	– Dukić, D. (1981): Klimatologija, Naučna knjiga, Beograd			
	– Ducić. V., Anđelković, G. (2004): Klimatologija - Praktikum			
	za geografe, Geografski fakultet Univerziteta u Beogradu,			
	Beograd.			

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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

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.