



Subject code: FG-104.3-4		Subject name: Oceanography	
Study cycle: I	Year: I	Semester: II	ECTS credits: 6
Status: Elective		Contact hours: 60 Lectures: 30 Practical courses: 30	
Assigned professors and assistants:		Lecturers and assistants selected for the field to which the course belongs	
Prerequisites:		/	
Subject objectives:		During the teaching-scientific process, it is necessary to acquire knowledge about the World Ocean as a whole and its individual parts within the regional oceanography. Students acquire the knowledge of the basic characteristics of the ocean and the sea and the mutual processes and phenomena between the hydrosphere and other geosphere, especially the atmosphere.	
Teaching units:		1. Oceanography - object, subject definitions, classification and tasks. 2. Unity and division of world ocean. 3. Horizontal division of the World Ocean. 4. Relief bottom of individual ocean. 5. Sediments of the Ocean floor 6. Basic chemical characteristics of seawater. Surface and depth distribution of salinity in the World Ocean. 7. Basic physical characteristics of seawater. Thermal properties of seawater. 8. Ice cover on World Ocean. 9. First test. 10. Dynamics of seawater. 11. The quality of seawater. 12. Atlantic Ocean. 13. Pacific Ocean. 14. Indian Ocean. 15. North and South Polar Ocean.	
Learning outcomes:		Knowledge: • students acquire basic knowledge and understanding of the interdependence of natural sciences (physics, chemistry, biology, geology) in marine and ocean research; • students master the knowledge of the World Ocean, unity and division, physical and chemical properties of sea water; dynamic processes and phenomena in it; the relief	



	of the bottom of the World Ocean and certain parts of it; • students critically understand and explain the mutual processes and phenomena between the hydrosphere and other geospheres, and especially the atmosphere and their impact on the World Ocean. Skills: • the student independently performs tasks related to the indentation of the sea and ocean coast and the analysis of the relief of the sea and ocean floor; • the student independently performs tasks related to the analysis of physical and chemical properties of the world's oceans; • the student assesses the mutual influences of physical-geographical factors on the dynamics of the World Ocean water; Competencies: • the student independently interprets the hydrological concepts, properties and quality of the water of the World Ocean; • the student independently determines and causally considers the main patterns in the course of hydrological processes and phenomena in the Earth's water mantle, with special emphasis on the World Ocean.																																							
Teaching methods:	Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (practical courses).																																							
Knowledge testing methods with grading structure¹:	<table><tr><td></td><td><i>Maximum Points</i></td><td><i>Minimum points</i></td></tr><tr><td>Attendance</td><td>5</td><td>3</td></tr><tr><td>Participation on lectures</td><td>5</td><td>3</td></tr><tr><td>Tests</td><td>40</td><td>22</td></tr><tr><td>Seminar paper</td><td>10</td><td>6</td></tr><tr><td>Final exam</td><td>40</td><td>21</td></tr><tr><td>TOTAL</td><td>100</td><td>55</td></tr></table> Assessment: <table><tr><td><i>Grade</i></td><td><i>ECTS grade</i></td><td><i>Points scale</i></td></tr><tr><td>10</td><td>(A) excellent</td><td>95 - 100</td></tr><tr><td>9</td><td>(B) very good</td><td>85 - 94</td></tr><tr><td>8</td><td>(C) good</td><td>75 - 84</td></tr><tr><td>7</td><td>(D) satisfactory</td><td>66 - 74</td></tr><tr><td>6</td><td>(E) sufficient</td><td>55 - 64</td></tr></table>		<i>Maximum Points</i>	<i>Minimum points</i>	Attendance	5	3	Participation on lectures	5	3	Tests	40	22	Seminar paper	10	6	Final exam	40	21	TOTAL	100	55	<i>Grade</i>	<i>ECTS grade</i>	<i>Points scale</i>	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
	<i>Maximum Points</i>	<i>Minimum points</i>																																						
Attendance	5	3																																						
Participation on lectures	5	3																																						
Tests	40	22																																						
Seminar paper	10	6																																						
Final exam	40	21																																						
TOTAL	100	55																																						
<i>Grade</i>	<i>ECTS grade</i>	<i>Points scale</i>																																						
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																																						

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



	5 (F, FX) insufficient 55
Literature²:	Mandatory: 1. Spahić, M.: Okeanografija, Posebna izdanja GD FBiH, Harfo-graf, Tuzla 2005. 2. Riđanović, J.: Hidrogeografija, Školska knjiga, Zagreb 1989. Recommended: 1. Temimović E., Korjenić A., Jahić H. Tektonska geomorfologija, PMF, Univerzitet u Sarajevu, Sarajevo 2017. 2. Rajčević, V., Crnogorac, Č.: Praktikum iz hidrologije (II dio – Limnologija i Okeanologija); Geografsko društvo Republike Srpske, Banja Luka 2011.

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.