



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

Page 1 of 3

Subject code: GE-565-4	Subject name: Ecological Security and Risk Management		
Study cycle: II	Year: I	Semester: I	ECTS credits: 6
Status: mandatory		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:	Acquiring Fundamental Knowledge of Ecological Security, Identification, and Risk Assessment		
Teaching units:	1. Introductory Lecture 2. Definition and Basic Concept of Ecological Security 3. Identification and Methodology of Risk Assessment 4. The Importance of Ecological Security for Environmental Preservation 5. National and International Environmental Laws 6. Legislation in the Field of Ecological Security 7. Development and Implementation of Monitoring and Early Warning Systems for Ecological Incidents 8. First Test 9. Strategic and Planning Documentation on Risk Management 10. Application of Sustainable Risk Management Principles 11. Methods of Remediation and Restoration After Ecological Incidents 12. Techniques for Cleaning and Restoring Contaminated Environments 13. The Role of New Technologies in Ecological Security 14. Use of Software Tools for Managing Ecological Incidents 15. Analysis of Seminar Papers		
Learning outcomes:	Knowledge: • student understands the key principles of ecological security. Skills: • student independently analyzes strategies and methods for effective risk management.		



	Competencies: • student independently proposes measures for sustainable risk management.																				
Teaching methods:	Multimedia presentation and discussion (lectures); practical work, educational material analysis and discussion (practical courses).																				
Knowledge testing methods with grading structure¹:	<i>Points</i> <table><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 colspan="2"> </td></tr><tr><td>TOTAL</td><td>100</td><td>55</td></tr></table>	Attendance	5	3	Participation on lectures	5	3	Tests	40	22	Seminar paper	10	6	Final exam	40	21			TOTAL	100	55
	Attendance	5	3																		
	Participation on lectures	5	3																		
	Tests	40	22																		
	Seminar paper	10	6																		
	Final exam	40	21																		
	TOTAL	100	55																		
	Assessment:																				
	<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																					
5 (F, FX) insufficient 55																					
Literature²:	Mandatory: -Sutter, G.W. (2007) Ecological Risk Assessment 2nd Edition, CRC Press. - Ermakov, S., Volkova, L., Kapustina, I. (2021) Ecosystems Measurement: Risk Assessment Methods and Ecological Safety Principles, Transportation Research Procedia 54, 47–57 Recommended: - Smajić, M., Turčalo, S (2014) Ekološke promjene i ljudska sigurnost. U: 7. Zbornik međunarodne znanstveno- stručne konferencije Dani kriznog upravljanja. Velika Gorica: Veleučilište Velika Gorica - Galić, B. (2002) Politička ekologija i zelena politika. Sociologija ekologije, 11 (1-2), 1-14.																				

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.



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

Page 3 of 3

- Guidelines for Ecological Risk Assessment, U.S.
Environmental Protection Agency, Washington, DC,
1998