



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

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Subject code: GE-457-4	Subject name: Waste Management		
Study cycle: I	Year: IV	Semester: VII	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 about waste types, its collection, transportation, and disposal. Introducing students to laws and regulations in the field of waste management and their application. Mastering theoretical and applied concepts of recycling and reuse.		
Teaching units:	1. Introductory lecture 2. Definition and types of waste 3. Waste collection and transportation 4. Waste disposal 5. Sanitary landfills and issues with illegal dumping sites 6. Recycling and reuse 7. First test 8. Innovative approaches to recycling 9. The significance and role of new technologies in waste management 10. Laws, regulations, and agreements in the field of waste management (domestic and international legislation) 11. Sustainable waste management policy 12. Environmental pollution caused by improper waste management 13. Improper waste management and its impact on human health 14. The role of the local community in proper waste handling and disposal 15. Analysis and presentation of seminar papers		
Learning outcomes:	Knowledge: • student understands the basic phenomena and issues of sustainable waste management.		



	Skills: • student develops the ability to identify and reflect on sustainable waste management. Competencies: • student measures and evaluates the state and perspectives of Bosnia and Herzegovina in the field of sustainable waste management.																																																
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 colspan="2"><i>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 colspan="3"> </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><tr><td colspan="3"> </td></tr><tr><td>5</td><td>(F, FX) insufficient</td><td>55</td></tr></table>		<i>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				5	(F, FX) insufficient	55
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Literature²:	Mandatory: Pitchel, J. (2005) Waste Management Practices Municipal, Hazardous, and Industrial. CRC Press Letcher, T., Vallero, D.A. (2011) Waste: A Handbook for Management. Academic Press. Recommended: Zakon o upravljanju otpadom FBiH (Službene novine FBiH br. 33/03, 71/09 i 92/17) Zakonu o upravljanju otpadom („Službeni glasnik Republike Srpske“, br. 111/13, 106/15 i 16/18																																																

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.