



Subject code: STAT-114/I		Subject name: Statistics	
Study cycle: I	Year: I	Semester: II	ECTS credits: 6
Status: Mandatory		Contact hours: 60 Lectures: 30 Exercises: 30	
Assigned professors and assistants:		Lecturers and assistants selected for the field to which the course belongs	
Prerequisites:			
Subject objectives:		Training students in methods of descriptive and inferential statistical analysis.	
Teaching units:		1. Introduction to statistical methods. 2. Data collection and organization. Statistical series. 3. Graphical representation of statistical series. 4. Absolute measures of central tendency. 5. Positional measures of central tendency. 6. Measures of dispersion. 7. Measures of skewness. 8. Measures of kurtosis. 9. Basic elements of probability theory. 10. Probability distributions. 11. Point and interval estimates of the mean, proportion, and standard deviation. 12. Parametric statistical tests (Z-test, t-test). 13. Chi-square (χ^2) test. 14. Test of independence. 15. Linear regression model.	
Learning outcomes:		Knowledge: The student acquires knowledge of statistical methods. Skills: Data collection, analysis, and interpretation of statistical data. Competencies: Application of statistics in geography.	
Teaching methods:		Multimedia presentation. Statistical software.	
Knowledge testing methods with grading structure¹:		Maximum Points Minimum points Attendance	

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



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

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	<table><tr><td colspan="3">Participation on lectures</td></tr><tr><td>Tests</td><td>40</td><td>22</td></tr><tr><td colspan="3">Seminar paper</td></tr><tr><td>Final exam</td><td>60</td><td>33</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>	Participation on lectures			Tests	40	22	Seminar paper			Final exam	60	33				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: • Šošić, I.: Primijenjena statistika, Školska knjiga, Zagreb, 2004. • Petz, B.: Osnovne statističke metode za nematematičare, Zagreb, 1997. Recommended: • Rogerson A. Peter: Statistical methods for geography, Sage Publications UK, 2019.																																										

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.