



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE  
SUBJECT DESCRIPTION

Form SP2

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<b>Subject code:</b> <i>STAT-114/1</i>	<b>Subject name: Statistics</b>		
<b>Study cycle:</b> <i>I</i>	<b>Year:</b> <i>I</i>	<b>Semester:</b> <i>I</i>	<b>ECTS credits:</b> <i>2</i>
<b>Status:</b> <i>chosen</i>		<b>Contact hours:</b> <i>30</i>  <i>Lectures: 15</i> <i>Exercises: 15</i>	
<b>Assigned professors and assistants:</b>	<i>Teachers and associates with expertise in the field to which the subject belongs</i>		
<b>Prerequisites:</b>	/		
<b>Subject objectives:</b>	Introducing students to descriptive and inferential statistical methods		
<b>Teaching units:</b>	<ol style="list-style-type: none"><li>1. Introduction to statistical methods</li><li>2. Collection and arrangement of data. Statistical sequences.</li><li>3. Graphical display of statistical sequences.</li><li>4. Complete mean values.</li><li>5. Positional mean values.</li><li>6. Measures of dispersion.</li><li>7. Measures of skewness.</li><li>8. Measures of kurtosis.</li><li>9. Basic elements of probability theory.</li><li>10. Probability distributions.</li><li>11. Point and interval estimates of averages, proportions and standard deviations.</li></ol>		



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	<p>12. Parametric statistical tests (Z-test, t-test)</p> <p>13. <math>\chi^2</math> -test.</p> <p>14. Independence test.</p> <p>15. Linear regression model.</p>																										
<p><b>Learning outcomes:</b></p>	<p><b>Knowledge:</b> The student acquires knowledge of statistical methods</p> <p><b>Skills:</b> Collection, analysis and interpretation of statistical data</p> <p>-</p> <p><b>Competencies:</b> Application of statistics in geography</p>																										
<p><b>Teaching methods:</b></p>	<p>Multimedia presentation. Mathematical software</p>																										
<p><b>Knowledge testing methods with grading structure<sup>1</sup>:</b></p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: right;"><i>Points</i></th> </tr> </thead> <tbody> <tr> <td><i>Attendance</i></td> <td style="text-align: right;">5</td> </tr> <tr> <td><i>Participation on lectures</i></td> <td style="text-align: right;">5</td> </tr> <tr> <td><i>Partial exam</i></td> <td style="text-align: right;">40</td> </tr> <tr> <td><i>Seminar paper</i></td> <td style="text-align: right;">10</td> </tr> <tr> <td><i>Final exam</i></td> <td style="text-align: right;">40</td> </tr> <tr> <td style="border-top: 1px solid black;"><i>TOTAL</i></td> <td style="text-align: right; border-top: 1px solid black;">100</td> </tr> </tbody> </table> <p><b>Assessment:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"><i>Grade</i></th> <th style="width: 40%;"><i>ECTS grade</i></th> <th style="width: 40%;"><i>Points scale</i></th> </tr> </thead> <tbody> <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> </tbody> </table>		<i>Points</i>	<i>Attendance</i>	5	<i>Participation on lectures</i>	5	<i>Partial exam</i>	40	<i>Seminar paper</i>	10	<i>Final exam</i>	40	<i>TOTAL</i>	100	<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
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<sup>1</sup> 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



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	7 <i>(D) satisfactory</i> 66 - 74 6 <i>(E) sufficient</i> 55 - 64 5 <i>(F, FX) insufficient</i> 55
<b>Literature<sup>2</sup>:</b>	<b>Mandatory:</b>  <b>Recommended:</b>

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<sup>2</sup> 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.