

Subject	Health Statistics and Informatics
Study program	Three years of professional studies for undergraduate speech therapist
Code	SL -123
Academic year	First
Semester	II
Total hours	45
Credits	3
Type of subject	Compulsory
Prerequisites	None
Performed by	Department of Epidemiology, Biostatistics and Medical Informatics
Responsible Educator	Prof. Dr. Biljana Taushanova
Address:	Institute of Epidemiology, Biostatistics and Medical Informatics, Faculty of Medicine, "Vodnjanska" bb. 1000 Skopje, Tel: +389 2 31 47 020, +389 2 3114825, e-mail: btaushanova@yahoo.com
Keywords:	Studies for logopedists, health care, informatics
Educational goals	<ul style="list-style-type: none"> <li>To learn how to use computers in health care for personal and educational purposes</li> <li>To acquire skill to assess the validity of results of epidemiological and clinical studies</li> </ul>
Brief content (excerpt)	<p><b>Theory 5 hours:</b></p> <ul style="list-style-type: none"> <li>Descriptive statistics (definition, methodology, variables, sources, analysis, control, and interpretation of data;</li> <li>Health statistics - history, development, definition, objectives and purposes;</li> <li>Mortality and morbidity health statistics - receipt, collection, analysis, meaning and interpretation of data;</li> <li>Demographics;</li> <li>Informatics - basic terms, definitions and biomedical systems of scientific information and technology</li> <li>Information technology based on application of PCs.</li> </ul> <p>Practical education - Statistics (20 hours):</p> <ul style="list-style-type: none"> <li>Sample</li> <li>Collating and display of statistical data</li> <li>Absolute and relative numbers</li> <li>Mean values</li> <li>Measures of variability</li> <li>Correlation</li> <li>Hypotheses</li> <li>Health indicators</li> <li>System of obtaining and analyzing information and data of</li> </ul>

	<p>interest to health statistics</p> <ul style="list-style-type: none"> <li>• Demographic indicators</li> </ul> <p>Practical classes - Informatics (20 hours):</p> <ul style="list-style-type: none"> <li>• Fundamentals of Information Technology</li> <li>• Information Technology in Health Care</li> <li>• Biomedical databases-sources, ways of searching</li> <li>• Practical work with computers: Word 6; Excel 5</li> <li>• Presentation Power Point.</li> </ul>												
Organization	<p>Theoretical training: 5 hours</p> <p>Practical training: 40 hours</p>												
Methods of Learning	Lectures, tutorials												
Provided school results	<p>Knowledge and understanding: The student will acquire knowledge about the use of computers in health care</p> <p>Key skills: The student will be able to use computers in personal and educational goals</p>												
Specific recommendations	<p>The student is responsible actively to monitor all the planned activities, including participation in continuous tests to get a signature.</p> <p>Scoring of the student activities:</p> <table border="1"> <thead> <tr> <th>Type of activity</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>Academic lectures*</td> <td>3-6</td> </tr> <tr> <td>Practical classes</td> <td>13-20</td> </tr> <tr> <td>Continuous checks (2)</td> <td>22-37</td> </tr> <tr> <td>Final Exam</td> <td>22-37</td> </tr> <tr> <td>Total:</td> <td>60-100</td> </tr> </tbody> </table> <p>* Presence to academic lectures: 51% - 60% - 5 points; 61% - 70% - 6 points; 71% - 80% - 7 points; 81% - 90% - 8 points; 91% -100% - 10 points.</p> <p>* Practical training: each exercise brings 1 point (40 exercises): Presence - 0.5 points activity during practical classes - 0.5 points</p> <p>Conditional criteria: The student is required to regularly attend theoretical and practical training classes in order to be eligible for continuous checks. Assessment of the overall exam is obtained according to the table of estimates, based on the sum of points from all activities, including ongoing checks. The student is obliged to score minimum points (60%) of one of the two continuous checks, otherwise, there is a complete final exam.</p> <p>Completed Final Exam: The exam is in written manner. It consists of continuous verification when the student did not win points.</p>	Type of activity	Points	Academic lectures*	3-6	Practical classes	13-20	Continuous checks (2)	22-37	Final Exam	22-37	Total:	60-100
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Teaching aids	<b>Basic:</b> <ul style="list-style-type: none"><li>- Biostatistics, by group of authors from the Department of Epidemiology, Faculty of Medicine, Skopje</li><li>- Authorized lectures of the Department</li></ul>
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