

Subject	Health Statistics and Informatics
Study program	Three years of professional studies for graduate radiological technologist
Code	SRT/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. Rozalinda Isjanovska
Address:	Institute of Epidemiology, Biostatistics and Medical Informatics, Faculty of Medicine, "Vodnjanska" 31. 1000 Skopje, Tel: +389 2 31 47 020, +389 2 3114825, 070 361 311 (responsible teacher) e-mail: prof.isjanovska@gmail.com
Keywords:	Studies for radiological technologists, undergraduate teaching compulsory subject, Informatics and Health Statistics
Educational goals	Achieve awareness and education in the field of informatics and health statistics
Brief content (excerpt)	<p><b>Theory 5 hours:</b></p> <ul style="list-style-type: none"> <li>• Descriptive statistics;</li> <li>• Health Statistics;</li> <li>• International Classification of Diseases, injuries and causes of death;</li> <li>• Demographics</li> <li>• Computer and Information Technology based on application of PCs</li> <li>• Information systems in health care;</li> <li>• Information system rentgen cabinet</li> </ul> <p><b>Practical classes (40 hours):</b></p> <ul style="list-style-type: none"> <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>• Testing of hypotheses</li> <li>• Health and demographic indicators</li> <li>• System of obtaining and analyzing information and data of interest to health statistics</li> <li>• Biomedical Databases</li> </ul>

	<ul style="list-style-type: none"> <li>The most common IT software for medical purposes, and its practical application</li> </ul>														
Organization	Theory: 5 hours; Practical training (exercises): 40 hours														
Methods of Learning	Lectures, tutorials Maximum number of students who can attend practical classes is 10.														
Provided school results	Knowledge and understanding: The student will acquire knowledge on the use of computers in health care Key Skills: The student will be able to use computers in personal and educational goals														
Specific recommendations	<p>The student is responsible actively to follow all the planned activities, including participation in continuous tests to get a signature. 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>3-5</td> </tr> <tr> <td>Practical classes</td> <td>6-10</td> </tr> <tr> <td>First Colloquium</td> <td>18-30</td> </tr> <tr> <td>Second Colloquium</td> <td>18-30</td> </tr> <tr> <td>Final Exam</td> <td>15-25</td> </tr> <tr> <td>Total:</td> <td>60-100</td> </tr> </tbody> </table> <p><b>Conditional criteria:</b> It is necessary for students regularly to attend theoretical and practical classes to be eligible for the colloquium. Regular visit to the theoretical classes 3 to 5 points, ie practical part should have won by 6 to 10 points (total of 9 to 15 points). Colloquiums are in written manner and are performed for each segment especially after either theoretical or practical part. Each of the two colloquium parts will be considered as passed if a candidate gets at least 18 points out of total of 30 points. The first colloquium consists of a test in which there are ten questions that carry two points each and a statistical task that carries 10 points. The second colloquium consists of three statistical tasks which carry 10 points each. The student is obliged to win a minimum of 45 points from the theoretical, practical and colloquium part in total, to become eligible for the final exam. Final Exam: The exam consists of a written and oral part. It consists of continuous checks in which the student did not win minimum points and application of knowledge in working with computers.</p>	Type of activity	Points	Academic lectures*	3-5	Practical classes	6-10	First Colloquium	18-30	Second Colloquium	18-30	Final Exam	15-25	Total:	60-100
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Teaching aids	<p><b>Basic:</b></p> <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> <li>- Medical Informatics-Jelena Mihaljev Martin</li> </ul>														