Subject	Health Statistics and Informatics		
Study program	SF		
Code	SF - 122		
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. Vesna Velic Stefanovska		
Address:	Institute of Epidemiology, Biostatistics and Medical Informatics, Faculty of Medicine, Vodnjanska Str bb 1000 Skopje, Tel: +389 2 3114825, e-mail: i@medf.ukim.edu.mk		
Keywords:	Studies for physiotherapists, health care, informatics		
Educational goals	To learn how to use computers in health care for personal and educational purposes.		
	<ul> <li>To acquire the skill to assess the validity of results of epidemiological and clinical studies.</li> </ul>		
Brief content (excerpt)	Theory 5 hours:  Introduction to Informatics and Health Statistics, statistical totality (statistical units, statistical mass) and representative study.  Types and characteristics of statistical data (variables) and statistical series  Demographics  International Classification of Diseases, injuries and Causes of death (X revision); Specific Mortality by cause of death (LPIS)  Information-basic terms, definitions and biomedical systems of scientific information and technology  Practical teaching: Informatics (20 hours):  Fundamentals of the Information Technology and Informatics in Healthcare  Hardware and Software and biomedical databases - sources, ways of searching  Microsoft Office: Word  Microsoft Office: Excel  Microsoft Office: Power Point  Statistica Fort Windows		

	<ul> <li>Statistics (20 hours)</li> <li>Tabular and graphical display of statistical series</li> <li>Analysis of series with qualitative data</li> <li>Dynamic indexes</li> <li>Analysis of series with quantitative data</li> <li>Measures of variability (standard deviation)</li> <li>χ² test</li> <li>Correlation</li> <li>Seasonal index</li> <li>Trend</li> <li>Method of sampling and determining sample size</li> <li>t-test</li> <li>Vital Statistics</li> </ul>		
Organization	Theory: 5 hours;		
	Practical Teaching: 40 hours		
Methods of	Lectures, tutorials		
Learning			
	Scoring of the student activities:  Type of activity	vely monitor all provided activities.  Points	
	Academic lectures*	10	
	Practical classes	20-40	
	Continuous checking 1	15-25	
	Continuous checking 2	15-25	
Specific	Total:	60-100	
recommendations	Conditional criteria: The student is required to score minimum points of theoretical and practical training to access the presentation. Continuous checking (statistics) is written and is performed after the completion of lectures and exercises. Assessment of the overall exam is obtained according to the table of estimates, based on the sum of points from all activities.  The student is obliged to score minimum points (60%) of continuous checking, otherwise, there is a final exam.  Final Exam: The exam consists of a written and oral part. It consists of the continuous checks when the student did not win minimum points.		
Teaching aids	Basic: - Biostatistics, by group of authors from the Department of Epidemiology, Faculty of Medicine, Skopje - Authorized lectures of the Department		