Specification of the course for the Book of courses					
Study program			Applied statistics		
Title of the course			Biostatistics		
Teachers (for lectures)			Zoran Milošević		
Teacher/fellow teacher (for exercises)					
<b>ESPB</b> 6		6	Status of the /elective (E)	course (obligatory (0) )	E (Obligatory in Module Biomedicine)
Conditions					
Aim of the course	The aim of this course is to master the basic concepts and understanding of the principles, techniques and methods of biostatistics and to apply them in biology, medicine and related fields.				
Course outcomes	This subject enables students to understand the principles of statistics in biology, medicine and related disciplines, and to apply the appropriate statistical technique in order to solve specific problems. Students will be trained to use appropriate statistical software that is specific for use in these areas and will be introduced to the corresponding characteristic examples.				
Content of the course					
Theoretical classes Practical classes	Hypothesis testing in the case of one, two or more samples: analysis of variance. Test differences between pairs. Multiple comparisons. Analysis of variance in the case of two-dimensional and multi- dimensional classification. Transformation of data. Nonparametric methods of analysis of variance. Hierarchical analysis of variance. Simple linear regression, comparison of simple regression models. Multiple regression and correlation: Polynomial regression. Logistic regression. Comparison of observed frequencies with the theoretical distribution. Categorical data and $\chi^2$ – test. Dichotomous variables. Testing randomness Presentation of models and methods characteristic for biostatistics. Solving of characteristic problems. Getting known specific software.				
References					
1	Zar, J. H. (2009). Biostatistical Analysis, Prentice Hall				
2	Chernick, M. R., Friis, R. (2003). Introductory Biostatistics for the Health Sciences Modern				
3	GP Quinn and MJ Keough, 2002. Experimental Design and Data Analysis for Biologists. Cambridge:				
А	Cambridge University Press Dawcon and Transi Rasic and Clinical Picetatistics 4th adition Lange Medical Poeks 2004				
The number of contact hours nor work during the connector / trimestor / year					
Losturos	Evonaicoo		December wo	Research work Other classes	
Lectures	Exercises	DON	Research wo	IK	other classes
2	2				
Teaching methods	Lectures, exercises, analysis of examples with applications, writing reports.				
<b>Evaluation of</b>	knowledge (n	naximum sc	ore 100)		
Pre exam duties			points	Final exam	points
Activity during lectures			5	Oral exam	40
Activity during exercises			15		
colloquia			20		
seminars			20		