

## Specification of the course for the Book of courses

<b>Study program</b>		Applied statistics	
<b>Title of the course</b>		<b>Epidemiology</b>	
<b>Teachers (for lectures)</b>		Dragan Bogdanović	
<b>Teacher/fellow teacher (for exercises)</b>			
<b>ESPB</b>	6	<b>Status of the course (obligatory (O) /elective (E))</b>	E (Obligatory in Module Biomedicine)
<b>Conditions</b>			
<b>Aim of the course</b>	The aim of this course is to introduce application of statistical analysis in the field of epidemiology. Specifics of applying statistics to assess the spread of epidemics and other problems.		
<b>Course outcomes</b>	Students will be able to understand the problem and to define an appropriate model for its solution by applying the statistical apparatus that has been developed and adapted to problems in epidemiology.		
<b>Content of the course</b>			
<b>Theoretical classes</b>	Research of epidemic. Measures of mortality. The incidence (new cases of disease) and prevalence (total number of affected individuals). Measures of risk. Biological variability. Screening. Case-control (retrospective) study. Cohort (prospective) studies. Randomized clinical trials. Understanding articles in epidemiological studies.		
<b>Practical classes</b>	Understanding research in epidemiology through the analysis of technical and scientific papers. Application of statistical software in the field of epidemiology. Solving problems in epidemiology and production of seminar papers		
<b>References</b>			
1	J.R. Hebel, R.J. McCarter: Study guide to Epidemiology and Biostatistics, 6 <sup>th</sup> edition, Jones and Bartlett Publishers, 2006.		
2	Robert Friis: Epidemiology for Public Health Practice, Jones & Bartlett Publishers		
3	Jos W. R. Twisk, Jos W. Twisk: Applied Longitudinal Data Analysis for Epidemiology: A Practical Guide, Cambridge University Press		
<b>The number of contact hours per week during the semester / trimester / year</b>			
<b>Lectures</b>	<b>Exercises</b>	<b>DON</b>	<b>Research work</b>
2	2	----	-----
<b>Other classes</b>	-----		
<b>Teaching methods</b>	Lectures, exercises, analysis of examples with applications, writing reports.		
<b>Evaluation of knowledge (maximum score 100)</b>			
<b>Pre exam duties</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
<b>Activity during lectures</b>	5	<b>Oral exam</b>	40
<b>colloquia</b>	5		
<b>seminars</b>	50		