Specification of the course for the Book of courses

Study program		Applied statistics	
Title of the course		Statistics I	
Teachers (for lectures)		Jovan Vukmirović	
Teacher/fellow teacher (for exercises)		Marko Obradović	
ESPB	6	**Status of the course (obligatory (O) /elective (E))**	O

Conditions	
Aim of the course	The aim of the course is to introduce the basic concepts of probability and descriptive statistics.
Course outcomes	Student will be familiar with basics principles of probability, events, random variables and their distributions. Also, student will be able to draw graphical figures based on a sample and to calculate sample statistics.
Content of the course	
Theoretical classes	Population. Characteristics. Sample. Steam-leaf diagram. Histogram. Location parametres: mean, median, mode. Scale parameters: variance, standard deviation, quiantiles. Box-plot diagram. Outliers. Two-dimensional sample. Sample correlation. Outcome space. Events. Probability. Conditional probability. Bayes' formula. Random variables. Binomial distribution. Normal distribution. Expected value and variance. Correlation coefficient. Point estimates of binommial and normal parameters.
Practical classes	Practical classes follow theoretical through solving exercises and examples.
References	
1	Milton J.J, McTeer P.M, Corbet, J.J: Introduction to Statistics, Mcgraw-Hill, 1997.
2	Jevremović, V.:Verovatnoća i statistika, Matematički fakultet, Beograd, 2009.
3	Grinstead, C. M, Snell J. L.: Introduction to Probability
4	Soong, T. T.: Probability and Statistics for Engineers, John Wiley & Sons, 2004.
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The number of contact hours per week during the semester / trimester / year

Lectures	Exercises	DON	Research work	Other classes
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Teaching methods	Lectures and exercises

Evaluation of knowledge (maximum score 100)

Pre exam duties	points	Final exam	points
homework	10	**Oral exam**	50
colloquia	40		