

(Table 5.2) Course unit description

Study program: Economics and business economics and management
Type and level of studies: MAS
Course unit: Applied Statistics
Teacher in charge: Prof. Slavica Jovetić, PhD
Language of instruction: English
ECTS: 8
Prerequisites: /
Semester: WS
Course unit objective: <ul style="list-style-type: none">• To meet the students with theoretical framework from theoretical statistics and statistical analysis;• Empowering students for using different quantitative methodologies, methods and techniques from the field of applied statistics, as well as comparative analysis between them during the research process and• To empower for independent research work in the adequate economics and business field. Special reference is oriented on the feedback relationship between statistical and econometric methods and economic science.
Learning outcomes of Course unit <ul style="list-style-type: none">• A critical understanding of theoretical and methodological concepts, methodologies, methods, models and techniques;• Analysis and assessment of specific economic and managerial problem situations and making optimal research scientific plan;• Choosing an optimal quantitative methodology, methods, models and techniques that will give the best results in concrete research;• Quantitative conclusion and analysis of all qualitative factors of influence on the observed problem, in order to specify economic conclusions and anticipate the future in the research and• Using statistical packages such as SPSS, Advanced Models 15.0, Chicago: SPSS Inc, Microsoft Office Excel 2007, Microsoft Office Professional Plus 2007.
Course unit contents <ul style="list-style-type: none">• Random variable, probability distribution, theoretical distribution,• Two-dimensional random variable,• Statistical inference,• Hypothesis testing,• Preparing the files with data,• Nonparametric techniques,• One-way variance analysis,• Two-way variance analysis with different groups,• Combined variance analysis,• Statistical controlling process,• Time series analysis,• Two-dimensional linear and non-linear regression model,• Multidimensional linear regression model and• Factor analysis.
Literature <ul style="list-style-type: none">• Pallant, J. (2011). SPSS Survival Manual, A Step by step• Tabachik, L. L. Fidell, L. S. (2007). Using multivariate statistics, Boston, Pearson Education

Number of active teaching hours				Other classes 1
Lectures 2	Practice 2	Other forms of classes 0	Independent work 4	
Teaching methods Classical teaching, consultation in the preparation of independent work, team work, coordination during the preparation of the presentation				
Examination methods (maximum 100 points)				
Exam prerequisites	No. of points:	Final exam	No. of points:	
Student's activity during lectures	5	30		
practical classes/tests	15	20	100	
Seminars/homework	30			
Project				
Other				
Grading System				
Grade	Bo. Of Points:		Description	
10	91-100		Excellent	
9	81-90		Exceptionally good	
8	71-80		Very good	
7	61-70		Good	
6	51-60		Passing	
5	0-50		Failing	