Course syllabus Business Statistics



COURSE DETAILS		
Type of study programme	Undergraduate professional study programme- 180) ECTS
Study programme	BUSINESS TRADE	
Course title	Business statistics	
Course code	STP009	
ECTS (Number of credits allocated)	5	
Course status	Core	
Year of study	First	
Course Web site	https://moodle.oss.unist.hr/course/category.php?id	=21
Total lesson hours per	Lectures	15
semester	Laboratory exercises & practical demonstration	30
Prerequisite(s)	None	
Lecturer(s)	Mathematics and Physics Unit: Nada Roguljić, lecturer Julija Mardešić, lecturer	

COURSE DESCRIPTION		
Course Objectives:	Enable students for using the computer program MS Excel, apply basic statistical techniques and methods for grouping, tabular and graphical display, analysis and interpretation of statistical data.	
Learning outcomes On successful completion of this course, student	 explain basic statistical concepts such as statistical collection, species characteristics, statistical series, tabular and graphical representation of data, measures of central tendency, dispersion and asymmetry, correlation and regression analysis, time series analysis apply knowledge to solve simple tasks using computer (MS) 	
should be able to:	 apply knowledge to solve simple tasks using computer (wis Excel) independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes) 	
	4. based on the acquired knowledge to interpret the meaning of the calculated statistical indicators	
	5. choose a statistical method for solving practical problems	
Course content	The concept and mission of statistics: the place and role of statistical methods in monitoring economic phenomena, statistical collection, types of characteristics. Basic methods of data analysis: formation of statistical series, their tabular and graphical presentation, the underlying characteristics of numerical sequences, measures of central tendency, measures of dispersion and variability. The concept and method of sampling tasks: sample types, examples of applications in product quality testing, receipt of goods, market research, etc. Regression and correlation analysis: correlation coefficient, linear and nonlinear regression models. Basic time series analysis: a graphical display and comparison, the numerical analysis of time series, individual and group indices, deflation, trend.	

CONSTRUCTIVE ALIGNMENT – Learning outcomes, teaching and assessment methods

Alignment of students activities with learning outcomes			
Activity	Student workload ECTS credits	Learning outcomes	
Lectures	15 hours / 0,5 ECTS	1,2,3,4,5	
Laboratory work	30 hours / 1 ECTS	3,4,5	
Two mid-term exams (preparation and delivery)	30 hours / 1 ECTS	3,4,5	
Self-study	60 hours / 2 ECTS	1,2,3,4,5	
Office hours and final exam	15 hours / 0,5 ECTS	1,2,3,4	
TOTAL:	150 hours / 5 ECTS	1,2,3,4,5	

CONTINUOUS ASSESSMENT

Continuous testing indicators	Performance A _i (%)	Grade ratio <i>k</i> i (%)
Class attendance and participation	50 - 70	5
Laboratory work	70 - 100	5
First mid-term exam	45 -100	45
Second mid-term exam	45 -100	45

FINAL ASSESSMENT			
Testing indicators – final exam (first and second exam term)	Performance Ai (%)	Grade ratio <i>k</i> i (%)	
Practical exam (written)	50 - 100	90	
Previous activities (include all continuous testing indicators)	50 - 100	10	
Testing indicators – makeup exam (third and fourth exam term)	Performance A _i (%)	Grade ratio <i>k</i> i (%)	
Practical exam (written)	50 - 100	100	

PERFORMANCE AND GRADE			
Percentage	Criteria	Grade	
45% - 59%	basic criteria met	sufficient (2)	
60% - 74%	average performance with some errors	good (3)	
75% - 89%	above average performance with minor errors	very good (4)	
90% - 100%	outstanding performance	outstanding (5)	

ADDITIONAL INFORMATION

Teaching materials for students (scripts, exercise collections, examples of solved exercises), teaching record, detailed course syllabus, application of e-learning, current information and all other data are available by MOODLE system to all students.