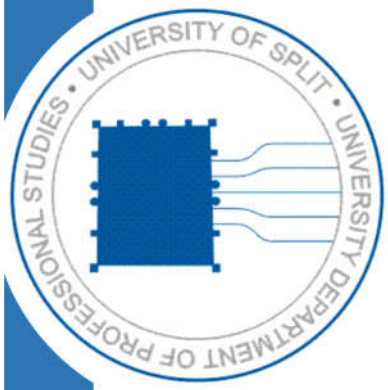
Course syllabus
Business Statistics



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 semester	Lectures	15
	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 should be able to:***	1. 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 2. apply knowledge to solve simple tasks using computer (MS Excel) 3. 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 k_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 A_i (%)**	**Grade ratio k_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 k_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.