

# SYLLABUS

## 1. Information regarding the program

1.1 Higher education institution	<b>UNIVERSITY OF ORADEA</b>
1.2 Faculty	<b>FACULTY OF ECONOMICS</b>
1.3 Department	<b>DEPARTMENT OF ECONOMY AND BUSINESS</b>
1.4 Field of study	<b>BUSINESS ADMINISTRATION</b>
1.5 Cycle of study	<b>CYCLE I - BACHELOR</b>
1.6 Program of study/Degree	<b>BUSINESS ADMINISTRATION/ BACHELOR'S DEGREE</b>

## 2. Information regarding the discipline

2.1 Name of discipline		Statistical processing on computer (FSTE-0729)					
2.2 Course titleholder							
2.3 Seminar titleholder							
2.4 Year of study	I	2.5 Semester	II	2.6 Type of assessment	Cv	2.7 Type of discipline	I

(I) Compulsory; (O) Elective; (F) Facultative

## 3. Estimated totaltime(hours/semester of activities)

3.1 Number of hours/week	3	out of which: 3.2 course	0	3.3 seminar/practical (laboratory)	2/1
3.4 Total of hours in the Curriculum	42	out of which: 3.5 course	0	3.6 seminar/practical (laboratory)	28/14
<b>Distribution of hours:</b>					<b>33hours</b>
Studying the workbook, course book, bibliography and notes					10hours
Supplementary documentation in the library, on electronic specialty sites and in the field					10 hours
Preparing seminars/laboratories, themes, projects, portfolios and essays					11 hours
Tutorship					0hour
Assessment activities					2hours
Other activities.....					0 hours
3.7 Total hours of individual study	<b>33</b>				
3.9 Total hours/semester	<b>75</b>				
3.10 Number of credits	3				

## 4. Pre-requisites (if applicable)

4.1 Curriculum	-
4.2 Skills	-

## 5. Conditions(if applicable)

5.1. concerning the course activities	-
5.2. concerning the seminar/laboratory activities	PowerPoint

6. Specific skills acquired	
<b>Professional skills</b>	<ul style="list-style-type: none"> <li>• C1.3 Applying the adequate instruments for the analysis of the influence relation exerted by the external business environment on the firm/organization</li> <li>• C1.5 Developing of a project investigating the economic influence exerted by the external business environment on the firm/organization</li> <li>• C3.3 Applying the specific instruments for the analysis of the functioning of a subdivision of the firm/organization</li> <li>• C4.5 Fundamenting projects for recruiting, selecting, motivating, paying of the human resources in the field of business administration</li> </ul>
<b>Transversal Skills</b>	

### 7. Objectives of discipline (resulting from the grid of specific skills acquired)

7.1 General objective of discipline	<ul style="list-style-type: none"> <li>▪ Understanding the measuring, analysis and interpretation methods of economical and financial data, the formation and developing of the ability to analyse and synthesize statistical information</li> </ul>
7.2 Specific objectives	<ul style="list-style-type: none"> <li>▪ The explaining of the correlation between economic variables and statistical notions</li> <li>▪ The appropriate use of calculus methods</li> <li>▪ The use of statistical indicators for the study of economic and financial phenomena</li> <li>▪ The developing of the ability to explain statistical information</li> <li>▪ The use of probability in the investigation of economic phenomena</li> <li>▪ Formation of an economic researcher</li> <li>▪ The formation and development to solve interdisciplinary problems</li> <li>▪ The formation of research abilities</li> </ul>

### 8. Contents

8.1 Course (C)	Teaching methods	Observations
-	-	-
8.2 Seminar (S)	Teaching methods	Observations

8.2.1. Introductory seminaire.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.2. Constructing unidimensional and bidimensional distributions.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.3. Graphs – histogram, chartpie.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.4. Graphs – scatterplot, timeseriesgraph.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.5. The average value, the modal value, the median.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.6. The skewness and kurtosis of a variable.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.7. The variance of variables. The homogeneity coefficient.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.8. Analysing the correlation between two variables using non parametric and parametric methods. Evaluating the strength of the correlation. Estimating a simple linear regression model.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.9. Setting up a questionnaire - general guidelines.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.10. Collecting and interpretation of the responses to a survey.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.11. The graphic presentation of the responses to a survey. Constructing statistical tables.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.12. Using chi-squared method for the validation of research hypothesis		2 hours
8.2.13. Presenting a research project.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
8.2.14. Presenting a research project.	Lecture, conversation, examples, explanation, demonstrations, exercises	2 hours
Bibliography		
<ol style="list-style-type: none"> <li>1. Meşter, Ioana Teodora, <i>Economic Statistics</i>, Editura Universităţii din Oradea, 2013.</li> <li>2. Salvatore, D., Reagle, R., <i>Schaum's Outline of Statistics and Econometrics</i>, McGraw Hill, 2011</li> </ol>		
8.3 Laboratory (L)	Teaching methods	Observations

8.2.1. Introduction. Select two macroeconomic indicators and collect the statistical data from INSSE / BNR / Eurostat	Lecture, explanation, exercises	2 hours
8.2.2. Constructing unidimensional and bidimensional distributions. Graphs - histogram, chartpie	Lecture, explanation, exercises	2 hours
8.2.3. Graphs – scatterplot, time series graph starting from the two selected macroeconomic indicators.	Lecture, explanation, exercises	2 hours
8.2.4. The average value, the modal value, the median	Lecture, explanation, exercises	2 hours
8.2.5. The skewness of a variable. The kurtosis of a variable. The variance of variables. The homogeneity coefficient	Lecture, explanation, exercises	2 hours
8.2.6. Analysing the correlation between the two selected variables (non parametric and parametric methods). Estimating a simple linear regression model.	Lecture, explanation, exercises	2 hours
8.2.7. Chi-squared method. Testing some hypotheses based on given data.	Lecture, explanation, exercises	2 hours
Bibliography		
<ol style="list-style-type: none"> <li>1. Meşter, Ioana Teodora, <i>Economic Statistics</i>, Editura Universităţii din Oradea, 2013.</li> <li>2. Salvatore, D., Reagle, R., <i>Schaum's Outline of Statistics and Econometrics</i>, McGraw Hill, 2011</li> </ol>		

### 9. Corroboration of the contents of the discipline with the expectations of the epistemic community, professional associations and employers representing the field of study of the program

<ul style="list-style-type: none"> <li>▪ The course content is consistent with what is being studied in other universities in our country and abroad.</li> <li>▪ To better adapt the contents of the discipline to market demands there have been meetings held with the representatives of several companies in Oradea.</li> </ul>
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### 10. Assessment

Type of activity	10.1 Assessment criteria	10.2 Assessment methods	10.3 Percentage of the final grade
10.4 Course (C)			
10.5 Seminar (S)	The assimilation of notions. Specific language coherence.	Written paper	60%
10.6 Laboratory (L)	The capacity to correctly solve a statistical exercise as well as to understand the statistical results from an economic perspective.	1 written paper during the semester	40%
10.9 Minimum performance standard			
<ul style="list-style-type: none"> <li>▪ Learning the basic statistical notions</li> <li>▪ The ability to use statistical notions to solve a simple problem</li> <li>▪ The correct interpretation of the values obtained in a statistical problem</li> <li>▪ Obtaining at least the 4,50 grade at the written paper during the exam session</li> <li>▪ Designing a study / business administration project</li> <li>▪ Designing a work/project, assuming the responsibility of tasks specific to the role of multi-specialized team.</li> </ul>			

Date  
28.09.2020

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**29.09.2020**

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