

SYLLABUS

1. Information regarding the program

1.1 Higher education institution	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ECONOMIC SCIENCES
1.3 Department	DEPARTMENT OF ECONOMICS AND BUSINESS
1.4 Field of study	BUSINESS ADMINISTRATION
1.5 Cycle of study	CYCLE II - GRADUATE
1.6 Program of study/Degree	MASTER OF BUSINESS ADMINISTRATION / MASTERS DEGREE

2. Information regarding the discipline

2.1 Name of discipline	Data analysis (FSTE-0900)						
2.2 Course titleholder	Lecturer Ramona Marinela SIMUȚ, PhD						
2.3 Seminar titleholder	Lecturer Ramona Marinela SIMUȚ, PhD						
2.4 Year of study	I	2.5 Semester	2	2.6 Type of assessment	Cv	2.7 Type of discipline	I

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

3. Estimated total time(hours/semester of activities)

3.1 Number of hours/week	2	out of which: 3.2 course	1	3.3 laboratory	1
3.4 Total of hours in the Curriculum	28	out of which: 3.5 course	14	3.6 laboratory	14
Distribution of hours:					97 hours
Studying the workbook, course book, bibliography and notes					30 hours
Supplementary documentation in the library, on electronic specialty sites and in the field					25hours
Preparing seminars/laboratories, themes, projects, portfolios and essays					25hours
Tutorship					10 hour
Assessment activities					7 hours
Other activities.....					0 hours
3.7 Total hours of individual study	97				
3.9 Total hours/semester	125				
3.10 Number of credits	5				

4. Pre-requisites (if applicable)

4.1 Curriculum	-
4.2 Skills	-

5. Conditions(if applicable)

5.1. concerning the course activities	Computer, Video projector PowerPoint, magnetic board
5.2. concerning the seminar/laboratory activities	Video projector, computer, Microsof Office, PowerPoint, magnetic board

6. Specific skills acquired	
Professional skills	C3.3 Applying the specific instruments for the analysis of the functioning of a department of the firm/organization C4.3 Applying the appropriate instruments and procedures for the complex data analysis specific for business administration, entrepreneurship/tourism and hospitality C5.4 Critical-constructive evaluation of the instruments for data analysis C6.5. Selecting a dataset for resolving a business administration issue.
Transversal Skills	CT1 Applying the principles, norms and professional ethics values in the personal strategy of rigorous, efficient and responsible work. CT2 Identifying the roles and responsibilities in a multi-specialized team and using the relationship techniques and efficient work in the team. CT3. Identifying the opportunities of continuous formation and values the efficient implementation of the resources and educational techniques for the personal development.

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

7.1 General objective of discipline	<ul style="list-style-type: none"> ▪ 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
7.2 Specific objectives	<ul style="list-style-type: none"> ▪ The appropriate use of calculus methods ▪ The use of statistical indicators for the study of economic and financial phenomena ▪ The developing of the ability to explain statistical information ▪ The formation and development to solve interdisciplinary problems ▪ The formation of research abilities

8. Contents

8.1 Course (C)	Teaching methods	Observations
8.1.1. Introduction	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.2. Solving single step problems, using ratios, rates, proportional relationships, and scale drawings.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.3. Solving multistep problems using ratios, rates, proportional relationships, and scale drawings	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.4. Solving single - and multistep problems involving percentages	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.5. Solving single - and multistep problems involving measurement quantities, units, and unit conversion	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour

8.1.6. Describing the correlation between two variables using a scatterplot, use linear, quadratic, or exponential models	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.7. Using the relationship between two variables to investigate key features of the graph.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.8. Investigating key features of the graph using the relationship between two variables	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.9. Compare linear growth with exponential growth.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.10. Use two-way tables to summarize categorical data and relative frequencies, and calculate conditional probability.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.11. Inferences about population parameters based on sample data	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.12. Using statistics to investigate measures of center of data and analyze shape	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.13. Using statistics to investigate and analyze center and spread	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.14. Evaluating reports to make inferences, justify conclusions, and determine appropriateness of data collection methods.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
Bibliography <ol style="list-style-type: none"> 1. Meșter, Ioana Teodora, <i>Economic Statistics</i>, Editura Universității din Oradea, 2013. 2. Salvatore, D., Reagle, R., <i>Schaum's Outline of Statistics and Econometrics</i>, McGraw Hill, 2011 3. Crăciun Iancu, Vinter Angela, Simuț Ramona Marinela, <i>Statistică aplicată</i>, Editura Economică, București, 2017 4. Cowan Glen, <i>Statistical data analysis</i>, Clarendon Press, Oxford, 1998 		
8. 2 Laboratory (L)	Teaching methods	Observations
8.2.1. Solving single step problems, using ratios, rates, proportional relationships, and scale drawings.	Lecture, explanation, exercises	2 hours
8.2.2. Solving multistep problems using ratios, rates, proportional relationships, and scale drawings	Lecture, explanation, exercises	2 hours
8.2.3. Solving single - and multistep problems involving percentages	Lecture, explanation, exercises	2 hours
8.2.4. Solving single - and multistep problems involving measurement quantities, units, and unit conversion	Lecture, explanation, exercises	2 hours
8.2.5. Describing the correlation between two variables using a scatterplot, use linear, quadratic, or exponential models	Lecture, explanation, exercises	2 hours
8.2.6. Using the relationship between two variables to investigate key features of the graph.	Lecture, explanation, exercises	2 hours
8.2.7. Investigating key features of the graph using the relationship between two variables	Lecture, explanation, exercises	2 hours
8.2.8. Compare linear growth with exponential growth.	Lecture, explanation, exercises	2 hours
8.2.9. Use two-way tables to summarize categorical data and relative frequencies, and calculate conditional probability.	Lecture, explanation, exercises	2 hours
8.2.10. Inferences about population parameters based on sample data	Lecture, explanation, exercises	2 hours
8.2.11. Using statistics to investigate measures of center of data and analyze shape	Lecture, explanation, exercises	2 hours

8.2.12. Using statistics to investigate and analyze center and spread	Lecture, explanation, exercises	2 hours
8.2.13. Evaluating reports to make inferences, justify conclusions, and determine appropriateness of data collection methods.	Lecture, explanation, exercises	2 hours
8.2.14. Solving single step problems, using ratios, rates, proportional relationships, and scale drawings.	Lecture, explanation, exercises	2 hours
Bibliography		
<ol style="list-style-type: none"> 1. Meșter, Ioana Teodora, <i>Economic Statistics</i>, Editura Universității din Oradea, 2013. 2. Salvatore, D., Reagle, R., <i>Schaum's Outline of Statistics and Econometrics</i>, McGraw Hill, 2011 3. Crăciun Iancu, Vinter Angela, Simuț Ramona Marinela, <i>Statistică aplicată</i>, Editura Economică, București, 2017 4. Cowan Glen, <i>Statistical data analysis</i>, Clarendon Press, Oxford, 1998 		

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"> ▪ The course content is consistent with what is being studied in other universities in our country and abroad. ▪ To better adapt the contents of the discipline to market demands there have been meetings held with the representatives of several companies in Bihor county.

10. Assessment

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

<p>Date</p> <p>28.09.2020</p>	<p>Course titleholder:</p> <p>Lecturer Ramona Marinela SIMUȚ, PhD</p> <p>E-mail address: simut.ramona@yahoo.com</p>	<p>Seminar titleholder:</p> <p>Lecturer Ramona Marinela SIMUȚ, PhD</p> <p>E-mail address: simut.ramona@yahoo.com</p>
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**Director of Department,
Associate Professor Dorin BĂC, PhD**

**Date of
approval in the
Department:**

29.09.2020

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**Date of
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30.09.2020

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