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 ECONOMY AND BUSINESS**
1.4 Field of study	**BUSINESS ADMINISTRATION**
1.5 Cycle of study	**CYCLE II - MASTER**
1.6 Program of study/Degree	**BUSINESS ADMINISTRATION / MASTER'S DEGREE**

2. Information regarding the discipline

2.1 Name of discipline		**QUANTITATIVE METHODS FOR ECONOMICS AND BUSINESS (FSTE-0897)**					
2.2 Course titleholder		Associate Prof. PhD Ioana Teodora MEȘTER					
2.3 Seminar titleholder							
2.4 Year of study	I	2.5 Semester	I	2.6 Type of assessment	Ex	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	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:					47hours
Studying the workbook, course book, bibliography and notes					35hours
Supplementary documentation in the library, on electronic specialty sites and in the field					35hours
Preparing seminars/laboratories, themes, projects, portfolios and essays					26hours
Tutorship					0hour
Assessment activities					1 hour
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	PowerPoint, Excel
5.2. concerning the seminar/laboratory activities	PowerPoint, Excel

6. Specific skills acquired

Professional skills	• C1.3. Applying the adequate instruments for the analysis of the influence relation exerted by the external business environment on the firm/organization • C2.3. Applying the adequate instruments to solve a problem the between the subdivisions of a firm/organisation • C3.3 Applying the specific instruments for the analysis of the functioning of a subdivision of the firm/organization • C4.3 Solving problems/specific solutions for the human resources: recruiting, selection, motivation, payment, workinghours, training
Transversal Skills	• CT1. Applying the principles, norms, and professionla ethics values in the personal strategy of rigourous, efficient and responsible work • CT2. Identifying the roles and resonsabilities in a multi-specialized team and using the relationship techniques and efficient work in the team.

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

7.1 General objective of discipline	▪ 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	▪ The explaining of the correlation between economic variables and statistical notions ▪ The appropriate use of calcullus methods ▪ The use of statistical indicators for the study of economic and financial phenomena ▪ The developping of the ability to explain statistical information ▪ The use of probability in the investigation of economic phenomena ▪ Formation of an economic researcher ▪ The formation and developement to solve interdisciplinary problems ▪ The formation of research abilities

8. Contents

8.1 Course (C)	Teaching methods	Observations
8.1.1. Introductory course. Introducing statistics: probabilities, distributions, errors, misuses	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.2. Data communication: rules for data presentation, comunicating data thouugh graphs	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.3. Data analysis.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.4. Measures: usefulness of measures. Measures of location. Measures of scatter. Dealing with outliers.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.5. Sampling methods.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour

8.1.6. Statistical methods. Observed distributions.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.7. Probability concepts. Discrete probability distributions.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.8. Continous probability distributions.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.9. Statistical inference.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.10. Analysis of variance	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.11. Regression and correlation	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.12. Multiple regression analysis. Non linear regression analysis.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.13. Forecasting	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
8.1.14. Time series techniques.	Lecture, conversation, examples, explanation, demonstrations, exercises	1 hour
Bibliography 1. Meșter, Ioana Teodora, *EconomicStatistics*, EdituraUniversităţii din Oradea, 2013. 2. Salvatore, D.,Reagle, R.,*Schaum's Outline of Statistics and Econometrics*, McGraw Hill, 2011		
8.2 Seminar (S)	Teaching methods	Observations
8.2.1. Introductory seminnaire. Introducing statistics: probabilities, distributions, errors, misuses	Lecture, explanation, exercises	1 hour
8.2.2. Data communication: rules for data presentation, comunicating data thouugh graphs	Lecture, explanation, exercises	1 hour
8.2.3. Data analysis.	Lecture, explanation, exercises	1 hour
8.2.4. Measures: usefulness of measures. Measures of location. Measures of scatter. Dealing with outliers.	Lecture, explanation, exercises	1 hour
8.2.5. Sampling methods.	Lecture, explanation, exercises	1 hour
8.2.6. Statistical methods. Observed distributions.	Lecture, explanation, exercises	1 hour
8.2.7. Probability concepts. Discrete probability distributions.	Lecture, explanation, exercises	1 hour
8.2.8. Continous probability distributions.	Lecture, explanation, exercises	1 hour
8.2.9. Statistical inference.	Lecture, explanation, exercises	1 hour
8.2.10. Analysis of variance	Lecture, explanation, exercises	1 hour
8.2.11. Regression and correlation	Lecture, explanation, exercises	1 hour
8.2.12. Multiple regression analysis. Non linear regression analysis.	Lecture, explanation, exercises	1 hour
8.2.13. Forecasting Time series techniques.	Lecture, explanation, exercises	1 hour
8.2.14. Seminaire evaluation	Lecture, explanation, exercises	1 hour
Bibliography 1. Meșter, Ioana Teodora, *Economic Statistics*, EdituraUniversităţii din Oradea, 2013. 2. Salvatore, D., Reagle, R., *Schaum's Outline of Statistics and Econometrics*, McGraw Hill, 2011		

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

- The course content is consistent withwhatisbeingstudied in otheruniversities in our country andabroad.
- To better adapt the contents of the discipline to market demands there have been meetings held with the representatives of several companies in Oradea.

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	60%
10.5 Seminar (S)	The capacity to correctly solve an exercise.	1 written paper during the semester	40%
10.9 Minimum performance standard			
▪ The ability to use basic concepts to solve a simple problem. ▪ The correct interpretation of the results. ▪ Obtaining at least the 4,50 grade at the written paper during the exam session			

Date	Course titleholder:	Seminar titleholder:
28.09.2020	**Associate Professor, Ioana Teodora MEȘTER, PhD** E-mail address: imester@uoradea.ro	**Associate Professor, Ioana Teodora MEȘTER, PhD** E-mail address: imester@uoradea.ro

Director of Department,
Associate Professor, Dorin Paul BÂC, PhD

Date of approval in the Department:

29.09.2020

Contact data[1]:
University of Oradea, Faculty of Economic Sciences, Department of Economics,
Universităţii 1, Building Corp F, room F206
Zip code 410087, Oradea, Bihor, Romania
Tel.: 0259-408410
E-mail: steconomice@uoradea.ro
Web page: http://steconomiceuoradea.ro

Dean,

Professor Alina Bădulescu, PhD

Date of approval in The Council of the Faculty of Economic Sciences:

30.09.2020

Contact data[2]:
University of Oradea, Faculty of Economic Sciences, Department of International Businesses
Universităţii 1, Building Corp F, floor 1, room F209
Zip code 410087, Oradea, Bihor, Romania
Tel.: 0259-408799; Fax: Fax: 0259-408409
E-mail: steconomice@uoradea.ro
Web page: http://steconomiceuoradea.ro

[1]State the contact information (telephone, e-mail, web page, etc) of the academic institution beneficiary of the *Syllabus*
[2]State the contact information (telephone, e-mail, web page, etc) of the academic institution beneficiary of the *Syllabus*