COURSE OUTLINE

1. Information about the program

1.1 Higher education institution	**"Alexandru Ioan Cuza" University of Iaşi**
1.2 Faculty	**Faculty of Economics and Business Administration**
1.3 Supplier Departament	**Accounting, Business Informatics and Statistics**
1.4 Beneficiary Departament	**Management, Marketing and Business Administration**
1.5 Field of study	**Business Administration**
1.6 Cycle of study	**Bachelor**
1.7 Study program / Qualification	**Business Administration**

2. Information about the course

2.1 Course title		**Basics of Statistics**					
2.2 Course coordinator		**Prof. dr. Laura Asandului**					
2.3 Seminar coordinator		**Prof. dr. Laura Asandului**					
2.4 Year of study	**1**	**2.5** Semester	**2**	**2.6** Type of evaluation*	**E**	**2.7** Course status**	**C**

* MT-MID-TERM, O-ORAL EXAM, E-EXAM, M-MIXED; ** C-compulsory/O-optional/E-elective

3. Estimated time allocation (hours per semester and teaching activities)

3.1 Number of hours per week	**4**	out of which: **3.2** course	**2**	**3.3** seminar / laboratory	**2**
3.4 Total number of hours per semester	**56**	out of which: **3.5** course	**28**	**3.6** seminar / laboratory	**28**
Time allocation					h
Study based on course book, course materials, bibliography and other					**38**
Supplementary study in the library, on electronic platforms and on the field					**30**
Preparing seminars/laboratories, assignments, papers, portfolios and essays					**20**
Tutorship					
Examination					**6**
Other activities					

3.7 Total hours of individual study	**94**
3.8 Total hours per semester	**150**
3.9 Number of credits	**6**

4. Prerequisites (if applicable)

4.1 Referring to curriculum	**Not necessary**
4.2 Referring to competences	**Excel**

5. Conditions (if applicable)

5.1 For the course	**Internet, Microsoft Teams**
5.2 For the seminar / laboratory	**Internet, Microsoft Teams**

8. Content

8.1	Course	Teaching methods	Observations (time and bibliography)

1.	Data and Statistics	Interactive course, heuristic conversation	2hours (Ch 1 from RL and MC)
2.	Descriptive Statistics	Interactive course, heuristic conversation, problem solving method	8hours (Ch 2 from MC, and Ch 2, and 3 from RL)
3.	Introduction to Probability	Interactive course, heuristic conversation, problem solving method	2hours (Ch 3 from MC)
4.	Probability Distributions	Interactive course, problem solving method	2hours (Ch 4 from MC, RL)
5.	Inferences based on a single sample (Estimation)	Interactive course, problem solving method	4hours (Ch 5 from MC, and Ch 6 from RL)
6.	Inferences based on a single sample (Hypothesis testing)	Interactive course, problem solving method	4hours (Ch 6 from MC, and Ch 7 and Ch 8 from RL)
7.	Inference based on two samples (Estimation)	Interactive course, problem solving method	2hours (Ch 7 from MC, and Ch 9 from RL)
8.	Inferences based on two samples (Hypothesis testing)	Interactive course, problem solving method	2hours (Ch 7 from MC, and Ch 9 from RL)
9.	Analysis of Variance	Interactive course, problem solving method	2hours (Ch 8 from MC, and Ch 10 from RL)

Compulsory reading:
   Lecture Notes uploaded on Microsoft Teams

Optional reading:
   1. ***Statistics for Business & Economics, 10th edition* by McClave, Benson and Sincich (Pearson)**
   2. *Statistics for Business and Economics (2nd Edition)* by Anderson Sweeney Williams Freeman Shoesmith
   3. *Statistics for Management and Economics* by Keller and Warrack
   4. *Basic Business Statistics* by Berenson, Levine, Krehbiel (9th Edition)

8.2	Seminar / Laboratory	Teaching methods	Observations (time and bibliography)
1.	Fundamental elements of Statistics. Collecting data	Case study method	4 hours (case studies at the end of the course book)
2.	Descriptive Statistics	Problem solving	6 hours (Ch 2 from MC, and Ch 2, and 3 from RL)
3.	Introduction to Probability	Problem solving	2 hours (Ch 3 from MC)
4.	Probability Distributions	Problem solving	2 hours (Ch 4 from MC, RL)
5.	Inferences based on a single sample (Estimation)	Problem solving	2 hours (Ch 5 from MC, and Ch 6 from RL)
6.	Inferences based on a single sample (Hypothesis testing)	Problem solving	4 hours (Ch 6 from MC, and Ch 7 and Ch 8 from RL)
7.	Inferences based on two samples (Estimation)	Problem solving	4 hours (Ch 7 from MC, and Ch 9 from RL)

8.	Inferences based on two samples (Hypothesis testing)	Problem solving	2 hours (Ch 7 from MC, and Ch 9 from RL)
9.	Analysis of Variance	Problem solving	2hours (Ch 8 from MC, and Ch 10 from RL)

Compulsory reading:
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3. *Statistics for Management and Economics* by Keller and Warrack
4. *Basic Business Statistics* by Berenson, Levine, Krehbiel (9th Edition)
5. Richard N. Landers, *Step-by-Step Introduction to Statistics for Business*, Sage Publications Ltd., 2014 (RL)

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Allocation to the final grade (%)
10.4 Course	Theoretical and applied knowledge	Intermediate exam Final exam	30 40
10.5 Seminar/ Laboratory	Applied knowledge	Homework, Exercises solved in class	30
10.6 Minimal performance standard			
Obtaining a minimum of 4 points (out of 10) at the Intermediate exam. Obtaining a minimum of 4 points (out of 10) at the Final exam. Obtaining a **weighted average** of 5 points (out of 10).			

Date   Course coordinator ,   Seminar coordinator,
                         Professor Laura Asandului, PhD   Professor Laura Asandului, PhD

Date of approval in the departament   Head of supplier departament,
                                       Professor Florin Dumitriu, PhD

                                       Head of supplier departament,
                                       Associate Professor Andrei Neștian, PhD