

General information	
Academic subject	Statistics 1
Degree course	<i>Business Economics</i>
Academic Year	<i>First year 2022-2023</i>
European Credit Transfer and Accumulation System (ECTS)	10 ECTS
Language	<i>Italian</i>
Academic calendar (starting and ending date)	<i>Second Semester</i>
Attendance	<i>No but recommended</i>

Professor/ Lecturer	
Name and Surname	Antonella Massari
E-mail	antonella.massari@uniba.it
Telephone	0805049312
Department and address	<i>DEMDI University of Bari Aldo Moro</i>
Virtual headquarters	<i>Microsoft Teams</i>
Tutoring (time and day)	Thursday 11:00-13:00 a.m. and Friday 11:00-13:00 a.m. Team Code ou9kygq For appointment contact the teacher by email

Syllabus	
Learning Objectives	<p>The course aims to:</p> <ul style="list-style-type: none"> - provide the basic knowledge of statistical methodology for the descriptive analysis of social, economic, business and financial phenomena - provide the skills needed to develop the critical ability necessary to apply the descriptive statistical methodology to real cases, particularly for business - provide skills related to the collection, processing, presentation and interpretation of data in the univariate and bivariate analysis of collective phenomena and allow the

	efficient use of qualitative and quantitative information in the companies.
Course prerequisites	Basic Knowledge of Math
Contents	Cap 1 Introduction to Statistics Cap 2 Data collection and classification Cap 3 Statistical tables Cap 4 Graphic representation Cap 5 Statistical ratios Cap 6 Averages Cap 7 Variability: measurement of dispersion and inequality Cap 8 Asymmetry: normal curve and skewness Cap 9 Analytical representation of distributions Cap 11 General concepts of the internal relations between the components of a double statistical variable Cap 12 Analysis of Dependence Cap 13 Analysis of Interdependence Cap 15 Analysis of statistical mutable
Books and bibliography	G. Girone, C. Crocetta , A. Massari “Statistica”, Bari, Cacucci, 2019 D .Posa- S .De Iaco - M. Palma - S. Maggio, “ Esercizi di Statistica descrittiva”, G .Giappichelli, Torino, 2006 P .Perchinunno, V.C. De Nicolò “Esercizi di Statistica” Cleup 2010
Additional materials	The textbook for the study of methodology is Girone , The other texts are for practical applications and exercises

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
<i>80</i>	<i>70</i>	<i>10</i>	
ECTS			
<i>10 ECTS</i>			

Teaching strategy	Lectures, exercises, seminars (univariate and bivariate statistical analysis with Excel)
Expected learning outcomes	
Knowledge and understanding on:	Acquisition of the methodological tools of descriptive statistics for the univariate and bivariate analysis of collective phenomena, particularly for business
Applying knowledge and understanding on:	Knowing how to apply the methodology of descriptive data analysis to real cases choosing the most suitable measuring instruments
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> • <i>Autonomy of judgment: knowing how to adequately interpret the results obtained from the carried out descriptive analysis</i> <p style="text-align: center;">Communication skills: knowing how to present and explain the obtained results using the appropriate technical language</p> <ul style="list-style-type: none"> • <i>Capacities to continue learning</i> Ability to learn the various stages of a statistical survey to transform the collected data into useful knowledge to make rational choices for business

Assessment and feedback	
Methods of assessment	Oral exam which includes the application of the methodology to empirical cases and the related discussion of the results
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <p>The candidate must:</p> <ul style="list-style-type: none"> - show knowledge of the statistical methodology for

	<p>the univariate and bivariate descriptive analysis of collective phenomena;</p> <p><i>Applying knowledge and understanding:</i></p> <p>knowing how to apply the acquired methodology to real cases, and choose the most appropriate measuring instruments and indexes</p> <ul style="list-style-type: none"> • <i>Autonomy of judgment</i> <p>have autonomy of judgment in the interpretation of results related to applications of collective phenomena</p> <ul style="list-style-type: none"> • <i>Communicating knowledge and understanding</i> <p>knowing how to present in a clear way the results of the descriptive analysis carried out using an adequate technical language</p> <ul style="list-style-type: none"> • <i>Capacities to continue learning</i> <p>in particular, the student must be able to detect, process, present and interpret data (by means of synthesis, variability, form of distribution and analysis of the relationships between variables), in order to transform the information collected into useful knowledge to decision-making processes within a company.</p>
<p>Criteria for assessment and attribution of the final mark</p>	<p><i>Some exercises will be given to the students who must solve and discuss them with the professor in relation to the methodological aspects;</i></p>



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	<p><i>The final mark will come from the acquired level of knowledge either of the methodology or the applications carried out during the exam.</i></p>
Additional information	