COURSE OF STUDY *Business Economics (Bari)*
ACADEMIC YEAR *2023-2024*
ACADEMIC SUBJECT ***Statistics 2***
Prof.ssa Antonella Massari

General information	
Year of the course	*Second Year*
Academic calendar (starting and ending date)	*First semester 18 September-12 January*
Credits (CFU/ETCS):	8CFU
SSD	*Secs-S/01*
Language	*Italian*
Mode of attendance	*Recommended*

Professor/ Lecturer	
Name and Surname	Antonella Massari
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Telephone	0805049312
Department and address	*DEMDI University of Bari Aldo Moro*
Virtual room	*Microsoft Teams*
Office Hours (and modalities: e.g., by appointment, on line, etc.)	Thursday Hours 11.00-13.00 and Friday Hours 11.00-13.00 Team Code ou9kygq For appointment contact the teacher by email

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
64	*52*	*12*	
CFU/ETCS			
8	*6,5*	*1,5*	

Learning Objectives	*The course aims to provide knowledge of the statistical methodology for the analysis of regression and multiple correlation, the analysis of historical and territorial series The foundations of inferential statistics considering the aspects considered most relevant from a conceptual and applicative point of view in the business context.* *The course will provide skills related to the use of statistical methodology in business (seminars)*
Course prerequisites	*Descriptive statistics*

Teaching strategie	*Lectures ,exercises ,seminars about the application of statistical methodologies in a business context*
Expected learning outcomes in terms of	
Knowledge and understanding on:	Knowledge of the basic foundations of the inferential

	statistical methodology; multiple regression and correlation analysis; analysis of historical series and territorial series
Applying knowledge and understanding on:	Ability to apply the acquired knowledge to real cases
Soft skills	*Making informed judgments and choices* Autonomy of judgment: to acquire the ability to choose the most suitable methodological tools for the study of empirical cases and have autonomy of judgment in the interpretation of the results *Communicating knowledge and understanding* *being able to effectively communicate the results obtained from the analisys of data.* *Capacities to continue learning* *ability to draw from data the information useful to take decisions, being able to integrate own knowledge to different situations.*
Syllabus	
Content knowledge	*Partial and multiple regression and correlation* *Time series analyses* *Spatial series analyses Introduction to statistical inference* *Casual variables and their distribution* *Logic and techniques of inference* *hference on averages* *linference on percentages* *linference on variances* *linference on regression and correlation coefficients*
Texts and readings	G. Girone, C. Crocetta , A. Massari "Statistica", Bari, Cacucci 2019
Notes, additional materials	*About seminars lecture notes will be provided during the course*
Repository	*Recommended text, any supplementary teaching material will be distributed during the lessons and inserted in the teams class*

Assessment	
Assessment methods	During the examination session, some written exercises are provided to the students ,who must elaborate them in front of the professor, while discussing the methodological aspects
Assessment criteria	*Knowledge and understanding* the candidate must demonstrate to know the statistical

	methodology proposed from a theoretical point of view during the course. *Applying knowledge and understanding* knowing how to apply the most suitable methodological tools for solving real cases *Autonomy of judgment* knowing how to adequately interpret the obtained results *Communicating knowledge and understanding* knowing how to present and explain the obtained results using the appropriate technical language *Communication skill* using the appropriate technical language *Capacities to continue learning* knowing how to get effective and useful information from data in taking the best decisions, especially for business problems
Final exam and grading criteria	*The final mark is given out of thirty. The exam is considered passed when the grade is greater than or equal to 18* *Some exercises will be given to the students who must solve and discuss them with the professor in relation to the methodological aspects;* *The final mark will come from the acquired level of knowledge either of the methodology or the applications carried out during the exam. Students will also have to demonstrate that they have developed independent judgment in the interpretation of the results and adequate capacity for argumentation and presentation*