General Information	
Academic subject	Statistics
Degree course	Three-year degree course
Curriculum	Economics and Administration of Companies
ECTS credits	10
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Carlo Cusatelli	carlo.cusatelli@uniba.it	SECS-S/01

ECTS credits details	
Basic teaching activities	Lectures, internal cycles of in-depth study, exercises,
	seminars, laboratory activities, project work

Class schedule	
Period	Il semester
Year	
Type of class	Lecture - workshops

Time management	
Hours	250
In-class study hours	80
Out-of-class study hours	170

Academic calendar	
Class begins	15th February 2021
Class ends	28th May 2021

Syllabus	
Prerequisites/requirements	Good knowledge of Basic Mathematics
Expected learning outcomes	<ul> <li>Knowledge and understanding on: <ul> <li>Acquisition of descriptive and inferential statistics tools in order to study collective phenomena (especially in the business, economic and financial fields), for the specification of statistical models that can be used for forecasting and decision-making purposes.</li> <li>Knowledge of official statistical sources for the retrieval of data for univariate and multivariate analysis.</li> </ul> </li> </ul>
	<ul> <li>Applying knowledge and understanding on:</li> <li>Plan a statistical survey, collect data, store it in databases, process it and present the results obtained.</li> <li>Reading and evaluation of the metadata that accompany the statistical sources.</li> <li>Perception of collective phenomena and their explanation through the statistical method.</li> </ul>
	<ul> <li>Making informed judgements and choices</li> <li>Translate the cognitive needs of the collective dynamics in statistical terms.</li> <li>Evaluate the results deriving from the calculation of statistical indicators and definition of the most suitable methods for achieving results.</li> </ul>

	- Use the results of the analyzes to formulate interpretative
	hypotheses, obtain strategic indications, make decisions in
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	conditions of uncertainty.
	- Evaluate the ethical and deontological aspects of the results
	of an investigation, in order to avoid inappropriate use of
	statistical information.
	Communicating knowledge and understanding
	- Synthesize, interpret and clearly present the results of the
	statistical analyzes carried out, both to experts in the
	application context and to specialists in the statistical field.
	- To grasp and define the statistical objective of a study with
	non-expert interlocutors, however, divulging the results
	with appropriate technical language.
	Capacities to continue learning
	- Acquisition of theory and technique of Statistics in its
	continuous methodological evolution.
	- Integration of one's own knowledge of the different
	realities to be examined, during the various phases of
	realization of the statistical survey.
Contents	Part I: Descriptive statistics
	Detection and classification of data
	Distributions and statistical tables
	Graphical presentations
	Statistical reports
	Analytical and loose means
	Variability: dispersion and inequality measures
	Normal curve, asymmetry, non-normality
	Analytical representation of distributions
	Relations between characters: independence,
	dependence, interdependence
	Temporal series: identification of the components
	Territorial series
	Part II: Probability and Inference
	Principles of probability and main random variables
	Logic and technical of inference
	Sample distribution
	Estimates and confidence intervals
	Hypotheses testing with one sample
Course program	. The serious cooking that one sumple
Bibliography	G. Girone, C. Crocetta, A. Massari. Statistica. Ed. Cacucci.
	Bari, 2019
	F. Delvecchio. Statistica per lo studio dei fenomeni sociali.
	Ed. Cleup. Padova, 2015
	D. Viola, P. Iaquinta. Esercizi di statistica. Ed. Cacucci. Bari,
N	2016
Notes	Any other text with a similar index and same "Contents" is
<del>-</del>	fine
Teaching methods	Use of traditional, electronic and computer blackboard
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Assessment methods Evaluation criteria	Written and/or oral exam Knowledge and understanding

	Detect data on statistical units: design and prepare the data collection questionnaire.  Applying knowledge and understanding Organize and adequately assess qualitative and quantitative information on the data source.  Autonomy of judgment Evaluate the aims of statistical research, organizing the phases of the preparative analysis according to time and space available.  Communicating knowledge and understanding Use and decode statistical language.  Capacities to continue learning Develop entrepreneurship and initiative.
Further information	Autonomy in performing statistical tasks, being guided by data