

### **COURSE OF STUDY Statistical Sciences**

#### **ACADEMIC YEAR 2023 2024**

### **ACADEMIC SUBJECT Geographical analysis of spatial data**

General information	
Year of the course	First
Academic calendar (starting and ending date)	15 september -20 december
Credits (CFU/ETCS):	6
SSD	M-GGR/02 Economic-and Political Geography
Language	Italian
Mode of attendance	Attendance not mandatory but recommended

Professor/ Lecturer	
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Department and address	Department of Economics and Finance-Largo Abbazia di Santa Scolastica, Bari
Virtual room	TEAMS codice alwcnjl
Office Hours (and modalities:	The reception will take placein presence on Mondays and Tuesdays from 9 to 11
e.g., by appointment, on line, etc.)	a.m. at the Department of Economics and Finance and on line by appointment via emal

Work schedule				
Hours				
Total	Lectures		Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
150	35		7	108
CFU/ETCS		•		
6	5	•	1	

Learning Objectives	Provide the theoretical knowledge, operational skills and practical skills required to detect, analyze and process data in order to describe and interpret the underlying geo-spatial phenomena. The graduate in Statistical Sciences acquires a solid formal and methodological preparation based on statistics, mathematics, probability, and an equally solid preparation in the disciplines applied economic statistics, demography, social statistics, financial mathematics essential to address the study of phenomena affecting the population and society.
Course prerequisites	No prior knowledge is required

Teaching strategie	- Frontal lessons carried out with the support of slides in pptx,
	cartographic material, audiovisual aids updated
	- Reading and interpretation of audiovisual, graphic and cartographic
	material guided and coordinated by the teacher
	- Individual and/or group work guided and coordinated by the teacher



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	- Seminars held by industry experts
	- Preparation of studies and research
	- Case analysis and simulations
	- Use of telematics supports
Expected learning outcomes in terms of	Know and know how to apply, critically, keys of interpretation and interpretation of the territory to the different spatial scales in function of spatial data (quantitative and qualitative); to be able to communicate effectively the meaning of spatial data and to use them to explain the spatial evolution of phenomena
DD1 Knowledge and	o Knowledge and analytical ability to understand methods, theories,
understanding on:	models and key concepts of geographic science aimed at
	understanding territorial dynamics.
	o Knowledge and ability to use conceptual and methodological tools
	for the examination of territories at all levels of intervention, from
	local to global through the selection and use of qualitative and
	quantitative.
DD2 Applying knowledge and	Ability to apply the theoretical and methodological perspectives of
understanding on:	political economic geography in order to be able to read, interpret
	and clearly trasmitte the spatial dynamics and the territorial
	attractiveness
	Ability to use in an appropriate way methods and tools for data     analysis to read the special evalution of the phonomena of the
	analysis to read the spatial evolution of the phenomena of the contemporary world
DD3-5 Soft skills	Making informed judgments and choices
DD3-3 SUIT SKIIIS	Know how to collect and analyze, with traditional and IT tools, data and geographic information of quantitative and qualitative type, interpreting them critically; be able to assess in full autonomy of judgment the problems connected with the territorial organization at different spatial scales, clearly motivating the choices and approaches related to the methodologies of geographical science and of statistical science
	Communicating knowledge and understanding
	Ability to communicate and argue, whit a personal style and use
	appropriate terminology, the meaning of spatial data; Abillity to argue,
	with a personal style and using appropriate terminology, specific to the
	geographical area, the content learned during the course; ability to
	interact with colleagues and/or experts on global and local perspectives
	to generate proposals for territorial analysis
	• Capacities to continue learning  At the end of the course, the student will have acquired the necessary competence and skills to search independently for geographical information from different sources (bibliographic maps, graphics, photographs) to deepen facts and phenomena that require a geographical interpretation and will have gained knowledge to apply territorial analysis tools aimed at interdisciplinary dialogue



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Syllabus	
Content knowledge	The concept of territory and territorialization; The concept of territorial attractiveness and its declinations; the relationship between geography and statistics; Research, collection, organization, analysis and coding of data; Representation, processing and interpretation of qualitative quantitative data. Analysis of territorial attractiveness as a function of quantitative and qualitative geo-territorial data
Texts and readings	ROMAGNOLI L., Metodi statistici elementari per la ricerca geografica, Bologna, Patron 2002 VALDEMARIN S., LUCIA M.G., Geografia dell'attrattività territoriale, Milano-Torino, Pearson, 2022.
Notes, additional materials	The recommended texts allow to deepen the main themes related to the course and constitute the primary reference.
Repository	During the lessons will be made available teaching material aimed at applying geographical methodologies aimed at developing the ability of students to apply the acquired knowledge.

Assessment	
Assessment methods	During the course there will be intermediate practical tests aimed at
	evaluating the knowledge and ability to understand applied, the
	autonomy of judgment, communication skills and the ability to learn.
	These tests can contribute to the final assessment that will be carried
	out through an oral exam related to all the topics covered.
Assessment criteria	The following criteria shall be used for the assessment of learning:
	Knowledge and understanding
	Ability to present, argue and synthesize, in a critical way and with a clear
	and appropriate language, the contents and the acquired disciplinary
	knowledge
	Applying knowledge and understanding
	Ability to identify territorial areas in which to apply geographical
	content and knowledge
	Autonomy of judgment
	Ability to autonomous analysis and ability to critically rework
	qualitative-quantitative data and content with respect to economic-
	territorial issues
	Communication skills
	Ability to present content and ideas in clear and appropriate scientific
	language
	Capacities to continue learning
	Demonstrate commitment to deepening independently of topics and
	disciplinary content; retrieve independently bibliographical sources
	adequate for cognitive and professional updating
Final exam and grading criteria	The final grade is awarded out of thirty. The exam is passed when the
	grade is equal to greater than 18
Further information	