

COURSE: **Economic, Spatial and Environmental Planning**

TYPE OF EDUCATIONAL ACTIVITY: **Characterizing**

TEACHER: **MARIO COZZI**

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Language: **Italian**

ECTS: 6 (5 frontal lectures; 1 practice)

n. of hours:
40 hours lectures
16 hours practice

Campus: Potenza
School: SAFE
Program: LM Forest and Environmental Sciences

Semester: I

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course provides advanced analysis tools on issues relating to land use planning. The aim is to provide students specific knowledge and analytical skills in decision-making regarding the natural and anthropogenic land. The course contributes to the technical and professional training of the students, thanks to the ability to apply advanced analysis tools on land-related topics, providing specific knowledge and analytical skills in relation to the decision-making processes that concern the natural and man-made territory.

- ❖ **Knowledge and understanding:** acquire the basic knowledge of the principal methodologies needed to analyze and interpret the behavior of the entrepreneur (private and public) and address their activities. Acquisition of basic tools and methods to understand the principles of economic equilibrium analysis in the presence of externalities and the different criteria for assessing environmental assets; Basic and advanced skills and knowledge of techniques applied to decision support systems.
- ❖ **Applying knowledge and understanding:** develop ability to apply knowledge and understanding of the topics covered in teaching as a demonstration of the acquisition of a professional approach to the problem. Appropriate skills to design and support arguments on the planning of natural and forest resources.
- ❖ **Making judgements:** develop theoretical-practical knowledge in order to consolidate the ability to collect and interpret synthetic and/or analytical data useful to determine autonomous economic and environmental judgments, including reflection on current global strategies, European trends on environmental, agricultural and forestry issue and related scientific themes.
- ❖ **Communication skills:** the developed communication skills will allow to communicate information, ideas, problems and solutions to specialists and non-specialist stakeholders, including through the use of mathematical tools (equations, charts and tables) and computer tools (charts, tables, maps and spatial data collected and cataloged in open source GIS environment).
- ❖ **Learning skills:** develop skills to collect and functionally organize the notions acquired during the course. These abilities are essential to undertake subsequent studies with a high degree of autonomy. Ability to independently consult the scientific literature on the specific topic and update its training.

PREREQUIREMENTS

- basical knowledge on GIS

SYLLABUS

Lessons

Sustainable development, economy and environment conditions measurement; monetary and non-monetary evaluation; environmental indicators; building quality index of environmental resources; processing steps and mathematical structure of an environmental quality index.

EU legislation; national and regional planning on economic, territorial and environmental issues; the regulatory changes on the landscape, on protected areas; spatial planning and the environment.

The digital database management in environmental planning; the Geographic Multicriteria Analysis as an analysis tool for planning. The area importance classification and identification of best measures for improvement / restoration / conservation.



Practices

Real-world case studies using GIS and spatial analysis

TEACHING METHODS

40 hours of lessons 16 hours of laboratory.

EVALUATION METHODS

Oral examination at the end of the course. Three questions, one of which related to topics addressed during practices. Optionally, it is provided the preparation of a report containing the results of a multi-criteria geographical analysis applied to a case study.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Teaching material distributed in classroom and available on-line
 - Bernetti I., Romano S., (2007). Economia delle risorse forestali. Liguori editore, Napoli;
 - Polelli M. Trattato di Estimo. Maggioli editore
 - Turner R.K., Pearce D.W. (2003) Economia dell'ambiente, il Mulino
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INTERACTIONS WITH STUDENTS

- in the office at planned days/hours (usually on Monday)
 - e-mail
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EXAMINATION SESSIONS

The third Friday of each month, except for August¹

EVALUATION BOARD

- Mario Cozzi
 - Gennaro Ventura
 - Severino Romano
 - Mauro Viccaro
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SEMINARS BY EXTERNAL EXPERTS YES

¹ Exam dates may vary. Please consult the teacher's web page for any updates or changes