



ACADEMIC YEAR: 2019-2020			
COURSE: Territorial Engineering			
TYPE OF EDUCATIONAL ACTIVITY: Characteristic			
TEACHER: FRANCESCO SCORZA			
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Language: ITALIAN			
In the presence of ERASMUS students, parts of the course will be conducted in ENGLISH and material will be provided in English to facilitate full participation in educational activities.			
ECTS: 9	n. of hours: 81 48 lessons 33 tutorials/practice)	Campus: Potenza/Matera Dept./School: School of Engineering Program: Master's Degree in Environmental and Territorial Engineering	Semester: I

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course represents the characterizing teaching for the training of the students of the Master's Degree on the themes of the disciplines of urban and territorial planning.

The main objective of the course is to provide students with methodologies and techniques to deal with the study and elaboration of an integrated projects of urban and territorial transformation.

The student will have to acquire autonomous skills in managing the project design process with reference to the identification of the relationships with the territorial context (considering impacts, synergies, preconditions, relevance and relevance).

The regulatory framework concerning territorial governance and the system of programming tools for local development planning will be discussed during the course considering the European dimension and the regional scale.

The main methodological references for the structuring of projects and local development actions will be presented, discussed and tested.

The principles and the instances of disciplinary innovation with reference to a renewed approach to rationality in planning will be the core of in-depth conceptual analysis.

Through examples developed in the classroom and carried out independently, the student will have to develop a strong ability to assess the relevance of the design objectives to be pursued and to evaluate the logic of the project, the means-ends sequence and the effectiveness and efficiency of the actions.

To this end, the ability of the students to present and discuss the logical robustness of the project will be taken care of through the collegial classroom discussion.

PRE-REQUIREMENTS

basic prerequisites for understanding the course content:

- *elementary concepts related to the framework of territorial planning (two lessons and appropriate bibliography will be provided)*
- *ability to use GIS systems.*

SYLLABUS

Planning culture and rational approach:

- *Principles, national law and plan levels (law 1150 / '42; 167/62; Law Bridge 765/67 and 1444/68; 865/71; 10/77)*



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- Sectorial Plans
 - Regional laws and urban reform

Regional programming from the origins to the affirmation of the European Union model

- Plan examples (in Basilicata)
- Examples of large area plans

Instances of innovation and international references:

- UN-HABITAT. International guidelines for urban and territorial planning
- The New Urban Agenda (NUA)
- EU Urban Agenda

Methodologies for a context based approach

- LFA, PCM, Pert
- Evaluation of the plan
- Territorial analysis
- From data to information
- Territorial Indicators
- Visualization techniques and Reading techniques (disparities and trends)

USE of GIS techniques, research and elaboration of basic spatial data for design processing

- Main Sources
- OGC services and geographic information sharing
- OSM, VGI and database localization

TEACHING METHODS

The course includes theoretical lectures and laboratory activities.

The lectures will mainly serve to present the complexity of the topics and the innovation concerning the disciplinary debate with reference to the contents of the course. Relevant sources and documentation useful for individual study and investigation will be suggested.

Starting from December, the tutorial/laboratory hours will be dedicated to the collegial discussion of the projects progressively produced by the students in order to get them used to the presentation and critical evaluation of the proposals.

As part of the course, students will be invited to follow in-depth seminars with experts and professionals aimed at presenting and discussing significant case studies.

Attending lectures is strongly recommended.

EVALUATION METHODS

Intermediate verifications,

Discussion of a project work,

Oral examination.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Faludi, A. (1985) A decision-centred view of environmental planning, Elsevier.

Franco Archibugi (2002) La città ecologica, Ed. Bollati Boringhieri ISBN 88-339-5664-4

Mauro Francini, M. F. Viapiana (2009) Elementi per il governo del territorio, Franco Angeli ISBN 978-88-568-0630-4

Beniamino Murgante (2008) L'informazione geografica a supporto della pianificazione territoriale, Ed. Franco Angeli

UN HABITAT (2015) International Guidelines on Urban and Territorial Planning, UN-Habitat.

UN HABITAT (2016) New Urban Agenda, UN-Habitat.

UN HABITAT (2017) Action Framework for Implementation of the New Urban Agenda UN UN-Habitat.

Leone F. e Zoppi C. (2016) Participatory processes and spatial planning. The Regional Landscape Plan of Sardinia, Italy, Territorio governance e sostenibilità, Franco Angeli, Milano, ISBN: 9788891740984



Las Casas G. B., Scorza F. (2009) *Un approccio “context-based” e “valutazione integrata” per il futuro della programmazione operativa regionale in Europa*. In Bramanti Salone (a cura di) *Lo Sviluppo Territoriale Nell’economia Della Conoscenza: Teorie, Attori Strategie, Collana Scienze Regionali, 41, FrancoAngeli, Milano.*

Las Casas G., & Scorza F. (2016). *Sustainable Planning: A Methodological Toolkit*. In O. Gervasi, B. Murgante, S. Misra, C. A. M. A. Rocha, C. Torre, D. Taniar, ... S. Wang (Eds.), *Computational Science and Its Applications -- ICCSA 2016: 16th International Conference, Beijing, China, July 4-7, 2016, Proceedings, Part I* (pp. 627–635). Cham: Springer International Publishing. http://doi.org/10.1007/978-3-319-42085-1_53

Scorza F (2013). *La programmazione regionale dal secondo dopoguerra alla Nuova Politica di Coesione Europea: una esplorazione dell’esperienza italiana*. MELFI: Casa Editrice Libria, ISBN: 978-88-6764-025-6

INTERACTION WITH STUDENTS

The Professor, after having illustrated the course program, the educational objectives and the verification methods, makes the teaching material available in electronic format on the website of the Engineering Laboratory of Urban and Territorial Systems - LISUT (www.lisut.eu) through the Google Classroom service. At the same time, the list of students who intend to participate in the course is collected together with their name, surname, registration number and email. Any communications on the progress of the lessons will be sent by the teacher via email to all students enrolled in the course, on the internet pages and on the social pages of LISUT.

The teacher is available for clarification during office hours (Tuesday - 5:00 pm - 8:00 pm) in his office (Potenza, Roman Macchia Campus, Engineering School, IV PLAN, room 17) (is requested an e-mail request to organize the reception).

In addition to the weekly reception schedule, the Professor is available at all times for a contact with the students, through his own e-mail and his mobile phone.

EXAMINATION SESSIONS (FORECAST)¹

I Session: 11/02/2020 24/02/2020 10/03/2020

II Session: 05/28/2020 09/06/2020 23/06/2020

III Session: 9/15/2020 29/09/2020 13/10/2019

The teacher is available to agree the exam dates with the students according to specific needs

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION

All information on the course activity will be available online on the www.lisut.eu website and through LISUT social media

¹ Subject to possible changes: check the web site of the Teacher or the Department/School for updates.