LOGO DELLA STRUTTURA PRIMARIA

COURSE: SISTEMI DI ELABORAZIONE DEI DATI TERRITORIALI SSD ING-INF/05			
ACADEMIC YEAR: 2016/2017			
TYPE OF EDUCATIONAL ACTIVITY: Basic			
TEACHER: Gabriele Nolè			
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Phone: +39 3282334188		mobile (optional):	
Language: Italian			
ECTS: 6	n. of hours: 56	Campus: Potenza	Semester: I

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course will provide the fundamental principles of GIS and Open Data.

More particularly, the course provides to the students the useful notions to analyze the main characteristics of a geographical area using GIS technologies, highlighting the critical issues.

PRE-REQUIREMENTS

The course does not require any specific prerequisites

SYLLABUS

Main topics of the course:

1. Principles of cartography, EPSG codes and Introduction to Geographic Information Systems
2. Google earth: editing, search paths, navigation
3. Introduction to QuantumGIS
4. The vector and raster data (symbology, properties, editing)
5. Online Converters of geographic data
6. Integration of data: QuantumGIS and Google earth
7. Geographic data and WEB: Geoportale Nazionale, RSDI
8. The system of Plugins in Quantum GIS: research, installation and use of some plugins
9. Metadata and Interoperability
10. Managing a CAD file, extraction of contour lines
11. Digital terrain model
12. Notes on the use of app for geoinformation
13. Layout

TEACHING METHODS

The course includes many hours of reading on the theoretical aspects, and many hours of training on geographic information systems and applications of Land Suitability analysis.

EVALUATION METHODS

Oral examination, Discussion of a project work

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Beniamino Murgante, L'informazione geografica a supporto della pianificazione territoriale, FrancoAngeli

Laurini R. Thompson D. Fundamentals of Spatial Information Systems ISBN-13: 9780124383807

ISBN-10: 0124383807

David W. Rhind e Michael Frank Goodchild, Geographic Information Systems and Science

http://www.qgistutorials.com/it/index.html#

https://www.youtube.com/playlist?list=PLc5INoe6kboYlX4vz4Zcjw2hZSb7rdL17

The main educational resources are shared in a Dropbox folder.

INTERACTION WITH STUDENTS

Theoretical lectures and laboratory exercises. Seminars with experts
EXAMINATION SESSIONS (FORECAST)[1] 9 febbraio 2107, 23 febbraio 2017, 6 aprile 2017, 15 giugno 2017, 13 luglio 2017, 26 luglio 2017, 13 settembre 2017, 11 ottobre 2017, 15 novembre 2017, 13 dicembre 2017.
SEMINARS BY EXTERNAL EXPERTS YES X NO □
FURTHER INFORMATION

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