



## Civil Engineering for Mitigation of Risk from Natural Hazards

**Course: Geomatics and GIS: I part**

a.y.: 2018/2019

Lecturer: Prof. Andrea Taramelli

Date: 22/10/2018 – 06/11/2018

Classroom: 1-15 @ IUSS

### Course schedule

Week	Date	Lecture hours	Tutorial hours	Subject	Tot h
		From____ To____	From____ To____		
1	22/10/2018	9-12.30		The GIS systems: definitions and classifications	3,5
	23/10/2018	14-17		Map, geographical database (definition and components)	3
2	29/10/2018	9-12.30		THE STRUCTURE: Vector	3,5
	30/10/2018	14-18		THE STRUCTURE: Raster	4
	31/10/2018	14-17		Map Algebra	3
3	05/11/2018	9-12.30		Modeling & Information Extraction	3
	06/11/2018	14-17		Spatial analysis	3

**Brief Contents Description and Course Syllabus:** The course provides lectures, seminars and exercises with the basic features and main applications of remote sensing and GIS. Principles of GIS: Vector and Raster structure, Analysis application, inventory applications, database, geoprocessing, management application.