

## Civil Engineering for Mitigation of Risk from Natural Hazards

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

a.y.: 2021/2022

Lecturer: Prof. Andrea Taramelli – Laura Piedelobo

Date: 06/11/2021 – 18/11/2021

Classroom: See the schedule below

**Course schedule**

Week	Date	Lecture hours From ____ To ____	Classroom	Subject	Tot h
	09/11/2020	9-12	Aula ...	The GIS systems: Overview The structure: Vector	3
	09/11/2020	14-17	Aula ...	The structure: Raster Hands-on session: Vector and raster (QGIS)	3
	10/11/2020	9-12	Aula ...	Mapping and geographical database: Definitions and components Hands-on session: Reference systems (QGIS)	3
	10/11/2020	14-17	Aula ...	Spatial analysis	3
	11/11/2020	9-12	Aula ...	Hands-on session: Operating with vector	3
	11/11/2020	14-17	Aula ...	Hands-on session: Raster algebra (QGIS)	3
2	16/11/2020	9-12	Aula ...	Thematic cartography	3
	16/11/2020	14-17	Aula ...	Hands-on session: Layout (QGIS)	3
	17/11/2020	9-12	Aula ...	Motivation and applications of remote sensing Physics of remote sensing	3
	17/11/2020	14-17	Aula ...	Sensors and imaging systems: active/passive, resolutions Satellite missions, agencies, and data availability	3
	18/11/2020	9-12	Aula ...	Basic Concepts of Image Processing and Analysis	3
	18/11/2020	14-17	Aula ...	Hands-on session: Copernicus Land, Sentinel 2, Sentinel 1, radiometric indices	3