****

**Course: Geomatics and GIS: II part**

a.y.: 2020/2021

Lecturer: Prof. Andrea Taramelli – Dott.ssa Clara Armaroli

Date: 10/06/2021 – 17/06/2021

Classroom: See the schedule below

**Course schedule**

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| **Week** | **Date** | **Lecture hours****From\_\_\_\_ To\_\_\_\_** | **Tutorial hours****From\_\_\_\_ To\_\_\_\_\_** | **Subject** | **Tot****h** |
| 1 | 16/06/2021 | 9-13 |  | Flow Direction Methods and their role in Terrain Analysis | 4 |
| 16/06/2021  | 14-18 |  | Stream Network Delineation Methods | 3 |
| 17/06/2021 | 14-18 | … | The DEM-based hydrogeomorphic characterization of river basins and networks for hydrologic models | 3 |
| 10/06/2021 | 14-18 | … | Flat areas treatment methods for drainage network definition | 4 |
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| 2 | 23/06/2021 | 14-17 |  | Flat areas treatment methods for drainage network definition | 3 |
| 24/06/2021 | 9-12 |  | Emergency Management using GIS | 3 |
| 24/06/2021 | 14-18 | … | Risk management framework: the concepts of hazard assessment; elements-at-risk mapping | 4 |
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**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.