Ph.D in Civil system engineering (32nd cycle)

Coordinator: prof. Andrea Papola

Scholarships: 4 (1 for foreign students)

Duration: 3 years

Web page of the University: http://www.unina.it/didattica/post-laurea/dottorati-di-ricerca/english-version Web page of the Department: http://www.dicea.unina.it/dottorato.php?id=1

Taught courses

Ph.D. students must obtain 27 credits within the 3 years, corresponding to 8 courses:

4 mandatory courses:

- The Entrepreneurial Analysis of Engineering Research Projects (3 CFU) (Prof Luca landoli)
- Communicating and disseminating your research work (3 CFU) (Prof. Mo Mansouri)
- Spoken English (6 CFU)
- a computer science course choosing among different available courses like for example:
 - Introduction to MatLab (Prof. Alessandra d'Alessio)
 - MatLab application to transportation systems (prof. Vittorio Marzano)
 - Geographic information system (GIS) I Level (3 CFU) (prof. Daniela Ducci)

4 Courses to choose among a list of offered courses, such as:

- Decision Aiding with Multiple Criteria Prof. Giuseppe Bruno
- Models and methods for the Optimization (Module 1) (3 CFU) prof. Antonio Sforza
- Models and methods for the Optimization (Module 2) (4 CFU) prof. Claudio Sterle
- Project Management Prof. Guido Capaldo
- Scientific Writing Lecturer: Chie Shin Fraser
- Statistics (3-6 CFU) prof. Roberta Siciliano
- Hydraulic measurements (Paola Gualtieri)
- CFD methods in environmental hydraulics (Carlo Gualtieri)
- Advanced topics in environmental hydraulics (Carlo Gualtieri)

Research themes in the transportation sector

- advanced discrete choice modelling and econometrics, with applications to passenger and freight;
- o-d flows estimation/updating in within-day and day-to-day dynamics;
- traffic network sensors location;
- intelligent transport systems (ITS);
- urban, national and international freight and logistics modelling;
- city logistics.