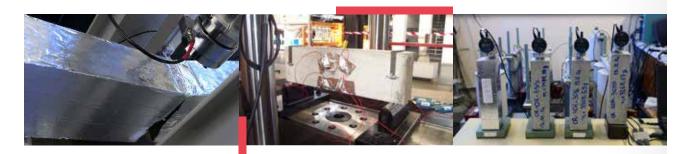




2ND AND 3RD YEAR SPECIALISATION

CIVIL ENGINEERING & SUSTAINABLE CONSTRUCTION

Master the design, construction and operational phases as well as rehabilitation and demolition, taking account of the durability of materials and of environmental risks (e.g. seismic risk).



COURSE CONTENT

SEMESTER 1

- Civil engineering materials
- Structural calculations
- Methods and management
- Soil and rock mechanics
- Reinforced concrete
- Case studies
- Geotechnical engineering
- Mechanics and physics of materials
- > Project 1

SEMESTER 2

- Eco-construction and mixed construction
- Structural design
- Transportation infrastructure
- Earthquake engineering
- Project 2
- Internship











EXAMPLES OF PREVIOUS PROJECTS

- > Design and construction of an office building: in response to a call for tenders (Bouygues)
- > Behaviour of superficial foundations and piles
- > Design and construction of an underground car park: in response to a call for tenders (Bouygues)
- > Modelling of concrete creep in deep storage centres

INDUSTRY SECTORS

- > Public works and buildings
- > Construction
- > Risk management
- > Recruitment across all company sizes from multinationals to national and local SMEs etc.

CAREER PROSPECTS

- > Construction project management
- > Civil engineering risk management
- > Consultancy
- > Methods
- > R&D in civil engineering

TEACHING STAFF

HEAD OF SPECIALISATION:

Syed Yasir ALAM

LECTURERS:

Syed Yasir Alam, Frédéric Grondin, Benoît Hilloulin, Panagiotis Kotronis, Ahmed Loukili, Anne-Laure Fauchille, Emmanuel Roziere, Giulio Sciarra, Ioannis Stefanou

syed-yasir.alam@ec-nantes.fr

EXAMPLES OF PREVIOUS INTERNSHIPS

- > Ensuring production quality control for the different phases of pre-stressing
- > Project management design and operations of Bouygues Telecom site development
- > Project management underground tunnel construction
- > Thermo-mechanical modelling of bituminous materials
- > Modelling of a full-scale test of crack growth under traffic on bituminous roads

