



MASTER
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MASTER STRUCTURAL ENGINEERING

Why MASTER SE?

The Structural Engineering study programme is intended to offer expertise in advanced structural design and construction project management in civil engineering. The graduates will learn to master powerful software solutions based on FEA and BIM to assess:

- ☐ The response of complex civil engineering structures to static and dynamic loads (response spectrum analysis, non-linear time history analysis, impact loading, stability analysis, a.s.o.);
- ☐ How to keep track of construction works and embed the contributions of architects, structural engineers, building services engineers, supply chain managers, construction site supervisors;
- ☐ The behavior of traditional and modern, composite, materials subjected to various loading scenarios and environmental conditions.
- ☐ The programme gives additional abilities on: Management of European and international research projects; Business communication and ethics / legislation; Technology management in Civil Engineering.

What will you study?

- ☐ Advanced Design of Steel, Concrete, Masonry, Timber and Composite Structure
- ☐ Advanced Finite Element Analysis
- ☐ Structural Health Monitoring
- ☐ Rehabilitation of Civil Engineering Structures
- ☐ Fire Safety Engineering
- ☐ Advanced Dynamics and Earthquake Engineering
- ☐ Risk and Project Management



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