



MASTER'S DEGREE  
PROGRAMME // M2



CENTRALE LYON  
**ENISE**



# CIVIL ENGINEERING

*Advanced modeling  
and experiments*



# MASTER IN CIVIL ENGINEERING

## Advanced Modeling and Experiments



2 semesters taught in French, including 4 months of internship in co-accreditation with École Centrale de Lyon, Université de Lyon 1 and ENTPE.

### Description

The Advanced Modeling and Experimentation in Civil Engineering track is fully in line with the civil engineering sciences.

The students enrolled in single and double courses will be able to follow this track alone. For these students, this track will combine several courses from the curriculum of the Civil Engineering degree and other courses shared with the co-accredited establishments and the companies/internship laboratories.

### Objectives

This track in Civil Engineering is designed to broaden and deepen the mastery of design, tools and methods in the field of remediation while consolidating the scientific foundations of engineering science, either for materials and structures or soils and infrastructures.



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How to apply?  
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@enise.fr

### COMMON COURSES\*

12 ECTS



*Behaviour of materials*



*Materials for civil engineering*

### SPECIALIZATION COURSES\*

12 ECTS



*Advanced calculation tools*



*Structures and infrastructures*

### OPENING COURSES\*

6 ECTS



*Seismic engineering*

### COMPLEMENTARY COURSES\*

6 ECTS



*English for business communication level 2*



*Socio-economics of business*



*Internship preparation.  
Bibliography*

### INTERNSHIP\*

24 credits



*Minimum 16 weeks*



*Written report*



*Oral presentation*

\* All the courses are taught **exclusively in French** ■ ■