

# CIVIL-465 Research skills for engineers

Cursus	Sem.	Type
Civil Engineering	MA1, MA3	Opt.

English Language of teaching Credits Session Winter Semester Fall During the Exam semester Workload 60h Weeks 14 2 weekly Hours Lecture 1 weekly Exercises 1 weekly Number of positions

#### Remark

Pas donné en 2023-24

#### **Summary**

The course prepares students for carrying out research-based Master projects. It teaches basics of scientific writing and presenting as well as concepts and tools that are useful over the course of a research project.

#### Content

#### **Keywords**

Research skills, scientific writing, scientific presenting, research data management, coding

### **Learning Prerequisites**

# Required courses

A little programming experience would be helpful but is not mandatory.

# **Learning Outcomes**

By the end of the course, the student must be able to:

- Plan a research project;
- Structure a research report and a presentation;
- Apply principles of effective scientific writing;
- Apply best practices in research data management, coding and data visualisation;;
- Apply best practices for using citations in scientific writing.

### **Teaching methods**

The course is based on presentations, which are followed by in-class exercises and take-home assignments. Modules of the course will be given by invited lecturers from the EPFL language center, the EPFL library and ENAC IT4Research.

#### **Expected student activities**

Active participation in course and exercises.

#### **Assessment methods**



The assessment is based on quizzes, on deliverables produced in the exercise hour and on take-home assignments.

## Resources

## **Moodle Link**

• https://go.epfl.ch/CIVIL-465