

CIVIL-465 Research skills for engineers

Cursus	Sem.	Type
Civil Engineering	MA1, MA3	Opt.

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