

Structural Dynamics Laboratory

The structural dynamics laboratory accompanies the structural dynamics course, as part of the requirements for the Bachelor's degree in structural engineering. The laboratory classes cover substantial part of the subjects learned in the course lecture. It provides students with first-hand experience with course concepts and allows them to acquire basic knowledge of methods, used by scientists in this field.

The main subjects addressed in this laboratory are:

- Data acquisition
- Measurements techniques and experimental data analysis
- Dynamic loads
- System identification
- Damping in structures
- Free vibrations of frames with single and multiple degrees of freedom
- Forced response of structures to fundamental loads
- Response of structures with mass-stiffness eccentricity

The classes are given by experienced laboratory instructors.

