

Syllabus

Course Description

Course Title	Laboratory of High-Performance Buildings: Seismic Design and Fire Resistance
Course Code	42644
Course Title Additional	
Scientific-Disciplinary Sector	NN
Language	German
Degree Course	Professional Bachelor in Wood Technology
Other Degree Courses (Loaned)	
Lecturers	dr. Thomas Schrentewein, Thomas.Schrentewein2@unibz.it
Teaching Assistant	
Semester	First semester
Course Year/s	3
CP	2
Teaching Hours	0
Lab Hours	20
Individual Study Hours	30
Planned Office Hours	6
Contents Summary	Exercises of basic seismic calculation of wooden buildings and single timber structures. Exercises on the topic of fire resistance of timber components, planning the fire prevention and protection of wooden buildings.
Course Topics	The laboratory has the objective of giving the students practical skills in earthquake resistant planning and design, as well as fire behavior and fire resistance of wooden buildings.
Keywords	Seismic calculation, fire resistance calculation, fire prevention planning
Recommended Prerequisites	Attendance of the lecture "High Performance Buildings: Seismic Design and Fire Resistance".

Propaedeutic Courses	
Teaching Format	Exercises, discussions and small group projects.
Mandatory Attendance	Recommended.
Specific Educational Objectives and Learning Outcomes	The laboratory has the objective of giving the students practical skills in earthquake resistant planning and design, as well as fire behavior and fire resistance of wooden buildings. Intended Learning Outcomes (ILO): Applying knowledge and understanding 1. Applying knowledge of theoretical skills of lectures into practical exercises Making judgements 2. Critical reviewing of the results of examples of practical exercises Communication skills 3. Discussion in the group of the obtained results of examples of practical exercises.
Specific Educational Objectives and Learning Outcomes (additional info.)	
Assessment	- Formative assessment: Collaboration at exercises: 20 h (total length of exercises); ILOs assessed: 1 - 3. - Summative assessment/final exam: ILOs assessed: 1 - 3.
Evaluation Criteria	Evaluation of collaboration at the exercises.
Required Readings	Lecture notes.
Supplementary Readings	Is provided during the course.
Further Information	
Sustainable Development Goals (SDGs)	Industry, innovation and infrastructure, Climate action, Sustainable cities and communities