

Syllabus

Descrizione corso

Titolo insegnamento	Edilizia ad alte prestazioni: sismica e resistenza al fuoco
Codice insegnamento	42643
Titolo aggiuntivo	
Settore Scientifico-Disciplinare	CEAR-07/A
Lingua	Tedesco
Corso di Studio	Corso di laurea professionalizzante in Tecnologie del Legno
Altri Corsi di Studio (mutuati)	
Docenti	dr. Thomas Schrentewein, Thomas.Schrentewein2@unibz.it
Assistente	
Semestre	Primo semestre
Anno/i di corso	3
CFU	4
Ore didattica frontale	40
Ore di laboratorio	0
Ore di studio individuale	60
Ore di ricevimento previste	12
Sintesi contenuti	Construction systems and basics of multi-storey wooden buildings, seismic basics and terms, seismic loads and load-bearing capacity, earthquake resistant planning and design, introduction into seismic calculation and assessment, legal basics and terms of fire prevention, fire behavior and fire resistance of timber components, fire prevention of multi-storey wooden buildings, introduction into Fire Safety Engineering (FSE).
Argomenti dell'insegnamento	The purpose of the course is to provide the basic knowledge and the theoretical background on seismic design and fire resistance of timber buildings. The aim of the course is to provide students with an adequate command of general structural principles and fire

	design methods.
Parole chiave	Timber construction systems, earthquake safety, fire safety, fire behavior, Fire-Safety-Engineering (FSE)
Prerequisiti	None.
Insegnamenti propedeutici	
Modalità di insegnamento	Frontal lectures and discussions.
Obbligo di frequenza	Recommended.
Obiettivi formativi specifici e risultati di apprendimento attesi	The purpose of the course is to provide the basic knowledge and the theoretical background on seismic design and fire resistance of timber buildings. The aim of the course is to provide students with an adequate command of general structural principles and fire design methods. Learning outcomes Intended Learning Outcomes (ILO): Knowledge and understanding 1. Knowledge of essential wooden construction systems 2. Understanding of earthquake resistant planning and design 3. Understanding of fire behavior of wood materials and fire resistance of timber components Ability to learn 4. Development of abilities and strategies to apply the learned skills into professional life.
Obiettivi formativi specifici e risultati di apprendimento attesi (ulteriori info.)	
Modalità di esame	Formative assessment: - Lectures and discussions; length/duration: 40 h (total length of course); ILOs assessed: 1-4. - Summative assessment/final exam: Oral exam: 100%; length/duration: 45 min.; ILOs assessed: 1-4.
Criteri di valutazione	Evaluation criteria of the oral exam: correct and complete response of oral questions, comprehension, technical competence.
Bibliografia obbligatoria	Lecture notes.
Bibliografia facoltativa	Is provided during the course.
Altre informazioni	

Obiettivi di Sviluppo Sostenibile (SDGs)	Innovazione e infrastrutture, Lotta contro il cambiamento climatico, Città e comunità sostenibili
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