



Course: Structural reliability	Teaching Language: English
SSD (Subject Areas): ICAR 09	CREDITS: 9
Course year: II	Type of Educational Activity: C (Related or supplementary)
Teaching Methods: in-person	
Contents extracted from the SSD declaratory consistent with the training objectives of the course: <ol style="list-style-type: none">1. Fundamentals of probability and statistics for structural engineering2. Probabilistic and deterministic characterization of actions on structures3. Methods of structural analysis to evaluate safety and reliability	
Objectives: <p>Applications of probability and statistics for civil structures: characterization of natural actions (seismic, wind, floods, etc), modelling of uncertainty for structural materials, assumptions and methods of structural analyses for evaluating reliability.</p> <p>Knowledge of methods to evaluate the reliability of structural systems.</p> <p>Evaluation of risk of structures exposed to natural hazards (single and multiple hazards).</p> <p>Cost-benefit analysis for civil structures and infrastructure.</p>	
Propaedeuticities: none Is a propaedeuticity for: none	
Types of examinations and other tests: <p>The type of examinations and other tests is oral. Students are also requested to discuss a technical report based on assignment provided during the lectures.</p>	