



Course: SOIL DYNAMICS AND EARTHQUAKE GEOTECHNICAL ENGINEERING		Teaching Language: Italian
SSD (Subject Areas): CEAR-05/A		CREDITS: 9
Course year: II	Type of Educational Activity: B	
Teaching Methods: in-person		
Contents extracted from the SSD declaratory consistent with the training objectives of the course: The course provides the basic elements for “the analysis and the modelling of earthquake effects on soils and rocks, addressed to the prediction of the seismic response at both local and territorial scale, as well as to the assessment of site stability and of soil-structure interaction”		
Objectives: The course objective is to provide the concepts, the experimental and the analytical tools required for the analysis of the geotechnical problems relevant to the safety of the environment, the buildings and the infrastructures undergoing seismic actions. The course is specifically addressed to the engineering analysis of seismic ground motion and to the evaluation of its effects on the subsoil, with the aim of predicting the seismic site response, assessing the geotechnical stability and analysing soil-structure interaction in seismic conditions.		
Propaedeuticities: None		
Is a propaedeuticity for: None		
Types of examinations and other tests: The exam is an oral talk during which the exercises developed during the practice lessons will be discussed.		