



Course: Limit Analysis of Structures		Teaching Language: Italian
SSD (Subject Areas): CEAR-06/A		CREDITS: 9
Course year: I	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 an introduction to the evaluation of the collapse load of ductile structures under small displacements and to the evaluation of the collapse load on account of the loss of shape for non-linear structures. In particular, the following topics are covered: inelastic behavior of materials; laws of plastic flow; fundamental theorems of plasticity and of the limit analysis of structures; Eulerian instability; critical load and post-critical behavior; collapse due to loss of shape; instability in the inelastic field.		
Objectives: Knowledge of the general principles and methods for evaluating the load-bearing capacity of structures in elastoplastic and non-linear regimes.		
Propaedeuticities: None with reference to the MSc course. Calculus, Physics, Rational Mechanics, Continuum Mechanics, Structural Mechanics with reference to BSc courses.		
Is a propaedeuticity for: None		
Types of examinations and other tests: Intermediate evaluation tests / written test. Oral interview.		