



ANNEX 2.1

DEGREE PROGRAM DIDACTIC REGULATIONS INGEGNERIA STRUTTURALE E GEOTECNICA (STRUCTURAL AND GEOTECHNICAL ENGINEERING)

CLASS LM-23

School: Polytechnic and Basic Sciences

Department: Structures for Engineering and Architecture

Didactic Regulations in force since the academic year 2024-2025

Course: Limit Analysis of Structures	Teaching Language: Italian
SSD (Subject Areas): ICAR/08	CREDITS: 9
Course year: I	Type of Educational Activity: Mandatory, Tipologia 2 (Art.10 comma 1, b) DM 270/2004)
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.	

WARNING: when compiling the Annex, it is essential to remember that it must be exactly the same as in the SUA (Annual single form of the Degree Program). If you wish to make any changes, you must consider that this action entails a change of Didactic Regulations or, if the field to be changed is RAD (University Didactic Regulations), of CdS detail sheet.