



## 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**

<b>Course:</b> Design and retrofit of masonry structures	<b>Teaching Language:</b> Italian
<b>SSD (Subject Areas):</b> ICAR/09	<b>CREDITS:</b> 9
<b>Course year:</b> II	<b>Type of Educational Activity:</b> TAF-B (Caratterizzanti la classe LM-23)
<b>Teaching Methods:</b> in-person	
<b>Contents extracted from the SSD declaratory consistent with the training objectives of the course:</b> Scientific-disciplinary contents consist of the theories and techniques used for both the structural design and construction of new buildings, and the verification and structural rehabilitation of existing ones. Scientific-disciplinary content includes: actions on buildings, including the effects of seismic action; the behaviour of structures as a function of their type, morphology, and materials; methods and tools for structural design; vulnerability and safety assessments; historical building surveys, safety checks, and structural intervention solutions applicable to historic buildings and monuments.	
<b>Objectives:</b> The course, through lectures and design exercises, aims to provide the general criteria and methods for the simulation of the structural behaviour of masonry buildings, which constitute a high fraction of the Italian and world building stock. The course deals with both the design of new buildings located in seismic areas and the structural assessment and retrofit of existing masonry buildings, using traditional or innovative materials/technologies.	
<b>Propaedeuticities:</b> Dinamica delle costruzioni ed ingegneria sismica or, equivalently, Earthquake engineering and structural control	
<b>Is a propaedeuticity for:</b> None	
<b>Types of examinations and other tests:</b> Oral discussion of the theoretical topics and the design project developed during the course.	

**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.