



## 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 2026/2027**

<b>Course:</b> Metodi computazionali in dinamica non lineare	<b>Teaching Language:</b> Italian
<b>SSD (Subject Areas):</b> CEAR-06/A	<b>CREDITS:</b> 9
<b>Course year:</b> I/II	<b>Type of Educational Activity:</b> D
<b>Teaching Methods:</b> In-person	
<b>Contents extracted from the SSD declaratory consistent with the training objectives of the course:</b> Mechanics of materials and structures, evaluation of the mechanical behavior (constitutive modeling, response to external excitations, experimental analysis), dynamics, active and passive control.	
<b>Objectives:</b> This course aims at providing students with mathematical models and numerical methods for the study of nonlinear dynamic behavior of mechanical systems adopted in aerospace, civil, mechanical, naval, and structural engineering. Theoretical lessons are interspersed with exercises and numerical applications.	
<b>Propaedeuticities:</b> none  <b>Is a propaedeuticity for:</b> none	
<b>Types of examinations and other tests:</b> Oral examination: discussion of a report on a topic selected by the student and questions on theoretical aspects.	