



RESTORATION AND PRESERVATION OF BUILDINGS

Enrollment year	2017/2018
Academic year	2021/2022
Regulations	DM270
Academic discipline	ICAR/10 (TECHNICAL ARCHITECTURE)
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
Course	
Curriculum	PERCORSO COMUNE
Year of study	5°
Period	2nd semester (07/03/2022 - 17/06/2022)
ECTS	9
Lesson hours	80 lesson hours
Language	Italian
Activity type	WRITTEN AND ORAL TEST
Teacher	MORANDOTTI MARCO (titolare) - 9 ECTS
Prerequisites	Building technology knowledge
Learning outcomes	<p>The course introduces students to the design of the refurbishment, strengthening and reuse of heritage buildings, for which a conservative approach is considered necessary.</p> <p>The project must therefore be preceded by a careful study aimed at knowing the physical consistency of the building, the residual levels of performance of the constructive elements, as well as the compatibility of new uses or new requirements of the same destination with the existing architecture, in order to respect morphological, structural and functional aspects of building system.</p>
Course contents	<ul style="list-style-type: none">- The construction, use, decay, reuse and maintenance process of buildings;- Historic construction techniques;- Survey, analysis and diagnosis

	<p>of decay phenomena;</p> <ul style="list-style-type: none"> - General principles for structural strengthening of buildings; - Techniques for preservation and strengthening of buildings; - Hygienic building recovery; - Analysis of the humid conditions and diagnostic tools.
Teaching methods	The course consists of lectures, guided visits to case studies, technological survey of a building or a part of it and a project
Reccomended or required readings	<p>S. Mastrodicasa, Dissesti statici nelle strutture edilizie, Hoepli, Milano, 1983.</p> <p>G. e I. Massari, Risanamento igienico dei locali umidi, Hoepli, Milano, 1985.</p> <p>G. Tampone, Il restauro delle strutture di legno, Hoepli, Milano, 1996.</p> <p>Teaching material provided by professors.</p>
Assessment methods	Evaluation of the project and oral examination
Further information	Evaluation of the project and oral examination
Sustainable development goals - Agenda 2030	<u>\$ibl legenda sviluppo sostenibile</u>