



General information	
Academic subject	Laboratory 'Digital Systems for Masonry Analysis'
Degree course	LM-2 Archaeology
Academic Year	2022-2023
European Credit Transfer and Accumulation System (ECTS)	3
Language	Italian
Academic calendar (starting and ending date)	Second Semester (27.02.2023 – 19.05.2023)
Attendance	Attendance is governed by the Course Didactic Regulations (art.4): https://w3.uniba.it/corsi/archeologia/presentazione-del-corso/R.D.ARCHEOLOGIAA.A.20222023.pdf

Professor/ Lecturer	
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Department and address	Dipartimento di Studi Umanistici –Università di Foggia, via Arpi 176)
Virtual headquarters	
Tutoring (time and day)	Tuesday from 9.00 to 12.30 at the Dipartimento di Studi umanistici, Università degli Studi di Foggia

Syllabus	
Learning Objectives	The course aims to provide the tools to build a technical knowledge on the analysis and study of architectural artefacts for historical and archaeological knowledge and for the evaluation prior to restoration
Course prerequisites	Basic computer skills: drawing and computing software Basic knowledge of working tools for Architectural Archeology: knowledge of basic elements of Stratigraphic Masonry Unit, Construction Technique, Track of processing, Dimensional Analysis of Building Elements (...).
Contents	The laboratory will focus mainly on developing skills on methodologies related to digital acquisition, reworking and processing of archaeological-architectural records for the analysis of historic buildings and historical built landscapes. The course aims to offer an overview of digital tools able to guarantee a methodological approach that will investigate the architectural characteristics of the building or artifacts, in the original phase of their construction and in the following transformations that took place over time. Final goal will be the acquisition of the ability to identify morphology of the constructive characters of architectural artifacts.
Books and bibliography	<ul style="list-style-type: none">- Slides presented during the course- Bibliography and webgraphy will be provided during the course. Any not attending students must agree exam program with teacher.

	<ul style="list-style-type: none"> - These are text books: - MEDRI M. 2005, Manuale di rilievo archeologico, Laterza Roma-Bari. - BROGIOLO G.P., CAGNANA A. 2012, Archeologia dell'Architettura Metodi e Interpretazioni, Firenze.
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
75	21		54
ECTS			
3			
Teaching strategy			
	The laboratory will be divided into theoretical-practical lectures consisting of exercises and laboratory activities, possibly integrated with practice exercises.		
Expected learning outcomes			
Knowledge and understanding on:	The laboratory aims to provide useful knowledge to understand and use IT tools to support the analysis of historical masonry in order to facilitate, speed up and enhance the methods of distinguishing building characters, of statistical calculation of the dimensional aspects of construction elements, of reading of the morphology of the masonry and its chronological indicators.		
Applying knowledge and understanding on:	Students will be able to apply primary operating methods and IT tools in order to analyze historical masonry. By doing exercises, students can verify directly their own level of understanding and managing digital techniques, supporting masonry reading and its chronological indicators (processing, dimension, materials...).		
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> Students will be able to correlate critically IT tools during laboratories in order to realize a quick and more effective analysis of archeological-architectural data that will be found. • <i>Communicating knowledge and understanding</i> Direct experimentation of the methods of reading historical masonry and IT tools for the acquisition and the process of archaeological-architectural data will be carried out in order to ensure the mastery of a technical language and an adequate specialized terminology. Both oral and graphic communication skills will also be stimulated by the approach of teaching. • <i>Capacities to continue learning</i> Direct exercise of IT tools for the processing of the identified and detected archaeological-architectural records will allow students to directly learn, in a digital environment, methods in order to develop their application skills and archaeological knowledge of the architectural artefact 		

Assessment and feedback	
Methods of assessment	The course will be divided into theoretical-practical lectures consisting of exercises and laboratory activities, possibly integrated with practice exercises
Evaluation criteria	Knowledge and understanding Knowledge of digital tools used in the field of Architecture Archeology for

	<p>the archeological reading and interpretation of buildings artifacts Ability to manage archeological filing of historical buildings</p> <p>Applying knowledge and understanding Use of tools for the analysis of wall structure indicators: Filing of Stratigraphic and Architectural Units; Stratigraphic analysis and reconstruction of a relative chronology; Mensiochronology (...).</p> <p>Prerequisites acquisition for data processing to be able to deal with: Classification of construction techniques and materials; Acquisition and photogrammetric and graphic processing.</p> <p>Self-check and on-going evaluation during laboratory exercises.</p> <p>Autonomy of judgement Critical reworking of content; Proper use of tools and methods; Proper and integrated use of IT tools</p> <p>Communication Skills Understand and describe, using a proper technical language, the characteristics of the archeological-architectural records through IT tools</p> <p>Learning Skills Demonstrate of critical managing the IT tools covered by the laboratory and the domain skills of Architectural Archeology</p>
Criteria for assessment and attribution of the final mark	The suitability is acquired following the ascertained adequate knowledge of the topics covered in class
Additional information	<p>The exam calendar will be published on the notice boards of the Degree Course and will be available on the website of Degree Course. To enroll for the examination, you need to book through the Esse3 system and fill out the questionnaire on student's opinions.</p> <p>Useful web sites: On the website of the Department of Humanities it is possible to find information about seminars, conferences, archaeological fieldworks (excavation and surface reconnaissance campaigns) and research activities related to teaching.</p> <p>Reception hours may vary. Students are kindly requested to check notices and any timetable changes on the teacher's page.</p>

