



COURSE OF STUDY Sciences for Cultural Heritage (L-1)

ACADEMIC YEAR 2023-2024

ACADEMIC SUBJECT Digital cultural heritage lab

General information	
Year of the course	Year I (Archaeological Heritage Sciences)
Academic calendar (starting and ending date)	II semester (26 th February – 15 th May, 2024)
Credits (CFU/ETCS):	3
SSD	INF-01
Language	Italian
Mode of attendance	Attendance is governed by the Didactic Regulations of the CdS (art. 4.2)

Professor/ Lecturer	
Name and Surname	Giuliano De Felice
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Telephone	3204394589
Department and address	Santa Teresa dei Maschi Complex, Strada Torretta (old town)
Virtual room	Teams platform (code 8pu1jke)
Office Hours (and modalities: e.g., by appointment, on line, etc.)	Mondays through Thursdays, by appointment to be arranged by email

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
75		21	54
CFU/ETCS			
3		3	

Learning Objectives	Acquire basic skills in the use of digital resources and tools for cultural heritage: 2D and 3D surveying, vector and raster reconstructive drawing, alphanumeric and spatial data management, modeling and animation fundamentals.
Course prerequisites	Basic computer skills (elementary knowledge of a personal computer and operating system).

Teaching strategie	The workshop will be structured as a learning-by-doing activity for theoretical and practical learning of methodologies and techniques for the implementation of an archaeology-related multimedia
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	digital communication project (year's theme), individual or group.
Expected learning outcomes in terms of	Learning of the main digital methodologies and techniques for the implementation of projects/products/services related to research, protection, enhancement and communication of cultural heritage, as well as acquisition of useful tools, skills and abilities to apply digital methodologies and techniques to cultural heritage in a scientific and professional manner.
Knowledge and understanding on:	<ul style="list-style-type: none">○ Knowledge and ability to understand the main digital methodologies and techniques for cultural heritage, their evolution, the state of the art and lines of evolution for the future;
Applying knowledge and understanding on:	<ul style="list-style-type: none">○ Knowledge and ability to design and implement projects/products/services involving the use of digital resources for cultural heritage;
Soft skills	<ul style="list-style-type: none">● <i>Making informed judgments and choices</i><ul style="list-style-type: none">○ Know how to identify, analyze, and critically discuss the quality of projects/products/services involving the use of digital cultural heritage resources.● <i>Communicating knowledge and understanding</i><ul style="list-style-type: none">○ Possess communication skills and mastery of the vocabulary and terminology of the field;○ Be able to critically discuss the quality of a project/product/service involving the use of digital resources for cultural heritage.● <i>Capacities to continue learning</i><ul style="list-style-type: none">○ Know how to interface with disciplinary update tools such as events, scholarly journals, and other publications;○ Know how to relate to websites and other web resources and channels and social profiles of public and private stakeholders in the disciplinary world to update their skills in a rapidly changing scenari.
Syllabus	
Content knowledge	<p>The course aims to provide students, through practical exercises, with the fundamentals related to the main areas of application of digital resources in the field of cultural heritage, including:</p> <ul style="list-style-type: none">○ 2D and 3D surveying;○ reconstructive drawing (vector and raster);○ database, GIS and spatial data management;○ modeling and animation. <p>During the laboratory sessions, students will actively experiment with the skills they have acquired, using them in the realization of a project (theme of the year) to be agreed with the teacher.</p>
Texts and readings	Texts and online resources for the course will be provided during class.



Notes, additional materials	
Repository	Materials will be made available by the instructor and will be found on the course's Teams class.

Assessment	
Assessment methods	<p>In consideration of the laboratory nature of the course, verification of learning will already take place in itinere during the laboratory sessions.</p> <p>The final verification of the skills acquired during the course will involve, through an oral discussion, the evaluation of a project (year theme) involving the use of digital resources for cultural heritage. The year theme may be individual or group; in the case of a group year theme, the individual student's contribution to the outcome will be evaluated.</p> <p>The completion of the year theme may be substituted for the reading of subject-specific bibliography, to be agreed with the teacher.</p>
Assessment criteria	<ul style="list-style-type: none">• <i>Knowledge and understanding</i><ul style="list-style-type: none">○ ability to organize a project/product/service involving the use of digital cultural heritage resources.• <i>Applying knowledge and understanding</i><ul style="list-style-type: none">○ Critical use of methodologies and techniques in the implementation of a project/product/service involving the use of digital resources for cultural heritage.• <i>Autonomy of judgment</i><ul style="list-style-type: none">○ Originality of the project/product/service realized.• <i>Communicating knowledge and understanding</i><ul style="list-style-type: none">○ Ability to effectively and critically describe the project/product/service realized.• <i>Communication skills</i><ul style="list-style-type: none">○ Communication skills and mastery of the vocabulary and terminology of the field.• <i>Capacities to continue learning</i><ul style="list-style-type: none">○ Ability to reason and critically analyze the issues addressed in the project/product/service realized.
Final exam and grading criteria	The course provides for a passing grade, based on the quality of the year's topic presented.
Further information	