



LM-2 ARCHAEOLOGY

2023-2024

PROPEDEUTICS TO PROJECTING IN GIS ENVIRONMENT

General information	
Year of the course	I-II
Academic calendar (starting and ending date)	Second Semester (26.02.2024 – 15.05.2024)
Credits (CFU/ETCS):	3
SSD	L-ANT/10 Methods of archaeological research
Language	Italian
Mode of attendance	Attendance is regulated by the academic regulations of the Course (art. 4.2).

Professor/ Lecturer	
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Department and address	Plesso s. Teresa dei Maschi, Strada Torretta (old town)
Virtual room	
Office Hours (and modalities: e.g., by appointment, on line, etc.)	Tuesday from 9.00 to 12.30 at the Dipartimento di Ricerca e Innovazione Umanistica, Plesso s. Teresa dei Maschi, Strada Torretta (old town). The teacher also receives on other days and at other times by appointment

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			

Learning Objectives	The intention is to transmit the theoretical and practical informatical tools necessary to autonomously acquire and process archaeological data in GIS environment, both at site level and on a territorial scale
Course prerequisites	Basic knowledge in the field of informatics and archaeological documentation methods

Teaching strategie	Lectures integrated with practical exercises
Expected learning outcomes in terms of	
Knowledge and understanding on:	<ul style="list-style-type: none"> ○ knowledge of the elements useful for setting up and developing a project in G.I.S. environment
Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ to set up and process a project in a G.I.S. environment autonomously
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ to use the teaching tools in a critical and correct way and in full autonomy • <i>Communicating knowledge and understanding</i>



	<ul style="list-style-type: none"> ○ to use a good level of control of the written and oral language code in the technical register ● <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ to acquire and process archaeological data in G.I.S. environment autonomously
Syllabus	
Content knowledge	<ul style="list-style-type: none"> - <i>G.I.S. and Archaeology</i>: introduction to territorial information systems - <i>Acquisition of data, design and development of projects in G.I.S. environment</i>: basic elements of cartography, cartographic data (raster, vector), geographical databases (table data, descriptive data) - <i>G.I.S. and Preventive Archaeology</i>: the compilation of the Preventive Verification of Archaeological Interest form according to the model developed by the Central Institute for Archaeology - Guide to use the open source software Quantum G.I.S. (QGIS)
Texts and readings	<p>Recommended readings</p> <ul style="list-style-type: none"> - J. BOGDANI, <i>GIS in archeologia</i>, in E. GIORGI (a cura di), <i>In profondità senza scavare. Metodologie d'indagine non invasive e diagnostiche per l'archeologia</i>, Bologna 2009, pp. 421-438. https://www.academia.edu/458336/GIS_per_l_archeologia - N. DELL'UNTO, G. LANDESCI, <i>Archaeological 3D GIS</i>, London 2022. https://www.researchgate.net/publication/358204344_Archaeological_3D_GIS - Manuale Utente QGIS: https://docs.qgis.org/3.28/it/docs/user_manual/index.html
Notes, additional materials	
Repository	
Assessment	
Assessment methods	The final exam consists in the realization of a project in G.I.S environment, to be carried out individually or in groups.
Assessment criteria	<ul style="list-style-type: none"> ● <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ knowledge of methodological, historical-archaeological and topographical issues related to the discipline ● <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ ability to apply G.I.S. tools in the archaeological ● <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ correct and autonomous use of G.I.S. tools for the elaboration of themed maps ● <i>Communication skills</i> <ul style="list-style-type: none"> ○ to describe and interpret, through the use of specific terminology, the contents studied ● <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ to demonstrate to be able to critically and integratedly manage the specific bibliography and methodological tools
Final exam and grading criteria	<i>Eligibility</i> is acquired following the ascertained adequate knowledge of the topics covered in class
Further information	