Learning plan

of the[1] Training Course in:

From Field to File: theories and techniques for reading structures and landscape

Academic year	2025-2026
Department	Sciences of Antiquity
Date of Resolution approving the activation of the course in the Department	28/4/2025
Course Director	Prof. Alessandra Ten
Minimum number of admitted students	5
Maximum number of admitted students	10

[1] Art. 1 point 4 of the Regulations on Master's Courses, Advanced Training Courses, Training Courses, Intensive Courses D.R. 915/2018

- "Advanced Training Course (CAF)" means the post-graduate professional course of specialization or specialized in-depth study established on the basis of Law 341/1990 art. 6. It is accessed with a degree, lasts less than one year, allows the acquisition of a maximum of 20 credits and at its conclusion a certificate of attendance is issued;
- for Training Course (CF), the professional refresher course lasting less than one year that confers up to a maximum of 10 credits. It can also be accessed with a high school diploma alone and at its conclusion a certificate of attendance is issued;
- for Intensive Summer/Winter School Courses) the courses, usually residential, intended for individuals in possession of the requirements referred to in art. 29 of these regulations, lasting from one to four weeks, internationally connoted that confer up to a maximum of 10 credits and end with the issue of a certificate of attendance

Admission requirements	Upper secondary school diploma
Learning objectives	The course, as part of the AICS Project AID code 013117: "Support for the restoration and enhancement of two unique sites in the universal cultural panorama: the Church of the Holy Sepulchre and the Museum of the Holy Land" CUP H27B25000000001, provides basic, theoretical and practical training, functional to the analysis, survey and digital representation of architectural structures and territorial areas, with particular reference to the historical and geographical context of the city of Jerusalem. Through the integration of traditional methods and digital tools, participants will acquire the necessary skills to deal with direct and digital surveying, computer modeling and structural reading for the understanding of historical architecture and the morphology of the territory. The training course includes an introduction to Geographic Information Systems (GIS), cartography, remote sensing and spatial data processing, from an interdisciplinary perspective applied to the urban and natural landscape. Particular attention will be paid to the interpretation of the structures in their environmental and historical context, with practical exercises and guided activities. At the end of the course, participants will be able to perform a first level of analysis of structures and territory, applying digital tools and historical-archaeological knowledge, and to manage spatial and structural data using specialized software.

Expected learning outcomes	At the end of the course, participants will be able to analyze the historical evolution of architectural structures in their territorial context, conduct direct and indirect surveys through digital processes such as photogrammetry and laser scanning, analyze building techniques and use cartographic tools, GIS systems and modeling software to represent and manage spatial and structural data. They will also be able to understand the basic principles of the statics of traditional and modern buildings, to design and administer relational databases for the organization and analysis of the information collected, and to apply interdisciplinary methodologies for the reading, documentation and enhancement of the landscape and the built heritage.
Lesson start date	March 2026
Teaching calendar	Attach or link
Internship	Not provided
Teaching methods	Mixed

CFU awarded	10
Sapienza professors responsible for the courses and related short curricula (max half page)	Teacher. Alessandra Ten, for the scientific disciplinary sector ARCH-01/F (Ancient Topography), Department of Ancient Sciences Prof. Alessandro Jaia for the scientific disciplinary sector ARCH-01/F (Ancient Topography), Department of Ancient Sciences. Prof. Julian Bogdani, for the scientific disciplinary sector ARCH-01/G (Methodologies of archaeological research), Department of History, Anthropology, Religions, Art and Entertainment. Dr. Laura Ebanista for the scientific disciplinary sector ARCH-01/F (Ancient Topography), Department of Ancient Sciences. Dr. Federica Vacatello, for the scientific disciplinary sector ARCH-01/E (Christian, Late Antiquity and Medieval Archaeology), Department of Antiquity Sciences
Any partner partners	Click here to enter text.
Location Sapienza or external locations (obligation of Convention)	Studium Biblicum Franciscanum

Expected registration fee divided into a maximum of two installments	300 euros
Any partial or total exemption fees from the payment of the part of the fee pertaining to the Department expressed as percentages (whole number) of the registration fee (max two types of exemptions)	Click here to enter text.
Secretarial Contacts	archaeoscapes.sapienza@uniroma1.it

Plan of Educational Activities

(Courses, Study and research seminars, Internships, Final exam)

Title of the training activity	Teaching Manager	Academic discipline	ECTS	Hours	Typology	Tongue
Activity I – BUILDING IN JERUSALEM: TECHNIQUES AND TRADITIONS • Historical analysis of the structures • Historical construction techniques • Dating methods	- Prof. Alessandra Ten	ARCH-01/F	1	8	Online course	English
Activity II – SURVEY OF STRUCTURES • Theoretical approaches to direct and indirect surveying • Photogrammetry • Digital Scanning Systems	- Prof. Alessandra Ten	ARCH-01/F	1	8	Online course	English
Activity III – FUNDAMENTALS OF STRUCTURAL STATICS • Principles of statics and structural behavior • Stress analysis in traditional and modern structures • Consolidation materials and techniques	- Contract to be banned		1	8	Online course	English

Activity IV – ELEMENTS FOR THE STUDY OF THE LANDSCAPE ● Topographic approaches to territorial analysis ● Case studies and landscape analysis methodologies	- Dr. Federica Vacatello		1	8	Online course	English
Activity V – CARTOGRAPHY AND REMOTE SENSING ● History of cartography, reference systems and projections ● Aerial photography and Remote Sensing	- Prof. Alessandro Maria Jaia - Dr. Laura Cabinetmaker	ARCH-01/F	1	8	Online course	English
ActivityVI – GIS (GEOGRAPHICAL INFORMATION SYSTEM) ● GIS Fundamentals: Key Concepts and Applications ● Creation and management of geographic databases ● GIS tools for territorial decision support	Prof. Julian Bogdani	ARCH-01/G	1	8	Online course	English
Activity VII – MORPHOLOGY AND GEOMORPHOLOGICAL EVOLUTION OF THE TERRITORY OF JERUSALEM ● Theoretical approaches to the geomorphology of the territory of Jerusalem	To be banned		1	8	Online course	English

• Case study analysis of the interrelationships between geomorphology and human settlement						
ActivitiesVIII – DIRECT AND INDIRECT SURVEY TECHNIQUES • Photogrammetry and laser scanning: indirect surveying • From surveying to digital model: data processing and restitution	Dr. Federica Vacatello To be banned		1	12	Guided in-person tutorial	English
Activity IX – TOOLS FOR DIGITIZING, DESIGNING AND MANAGING DATABASES • Software and workflow for the digitization of structures and the territory (AutoCAD and GIS) • Three-dimensional modeling and rendering of built environments (Blender) • Creation and management of relational and geographic databases (GIS) for the management of structural and landscape data • Case studies and application solutions	Dr. Federica Vacatello To be banned		2	25	Professional activity	English

Final exam		SSD not provided			Preparation of a final essay on one of the selected materials, including a practical evaluation
		TOTAL CFU	**10**		

The minimum number of credits that can be assigned to an activity is 1 (pursuant to art. 23 of the University Teaching Regulations, it should be noted that 1 CFU corresponds to 6 – 10 hours of lectures, or 9 – 12 hours of laboratory or guided exercises, or 20 – 25 hours of professional training in small groups or assisted study).