

UNIVERSITY OF CAGLIARI
SCHOOL OF SPECIALISATION IN ARCHITECTURAL AND LANDSCAPE HERITAGE
aa.yy. 2022-23 and 2023-24

COURSE INFO

Professor
Maria Maddalena Achenza
Title of the course
Earthen architecture
Scientific Disciplinary Sector
ICAR/10
Number of hours
20
Language
English
Objectives of the course
The aim of the course is to make known, through direct site experience, the basic characteristics of the building material earth and the application of techniques that employ it used in the Sardinian building tradition.
Any prerequisites
None.
Topics and contents of the course
The course is divided into 2 introduction hours of theoretical lessons and 3 practical construction lessons, of 6 hours each, which will take place at the LAT - Laboratorio Arti della Terra in Serrenti. During the workshop, attendees will learn to test the quality of soils for building, but also the main conservation and restoration intervention techniques of the historical heritage built with this material. Topics will be explored such as “ <i>cuci e scuci</i> ” applied to the walls, the remaking of coatings (external and internal), the consolidation of deteriorated masonry.
Methods of examination
Practice-laboratory test.
Essential bibliography
A. Sanna, C. Atzeni, <i>Manuale del recupero dei centri storici della Sardegna. Architettura in terra cruda</i> , DEI, Roma 2009. A. Sanna, M. Achenza, <i>Manuale del recupero dei centri storici della Sardegna. Manuale tematico della terra cruda</i> , DEI, Roma 2009. L. Fontaine, R. Anger, <i>Batir en terre</i> , Belin, Parigi 2009.
Further bibliographical information
E. Fodde, <i>COSTRUZIONI IN TERRA CRUDA DELLA SARDEGNA. Sostenibilità e conservazione architettonica</i> , ARTIGIANARTE, Cagliari 1998. H. Houben, H. Guillaud, <i>EARTH CONSTRUCTION. A comprehensive guide</i> , ITDG PUBLISHING, London 1998. G. Minke, <i>EARTH CONSTRUCTION HANDBOOK. The building material earth in modern architecture</i> , WIT PRESS, Southampton 2012. V. Mossa, <i>Architettura domestica in Sardegna</i> , Carlo Delfino Editore, Sassari 1987.
Didactic materials
The teacher will provide detailed lecture notes on the interventions covered by the course, and copies of other volumes published open access deemed useful.
External guests
Arch. Amanda Rivera Vidal, expert in clay construction from Chile, and Vice-President of the ICOMOS International Scientific Committee for Raw Earth Heritage - ISCEAH will be invited to give an in-depth study.