SYLLABUS Second Semester 2021/2022 University of Coimbra





ARCHITECTURE LANDSCAPE ARCHAEOLOGY ERASMUS+ JOINT MASTER

² EMJMD ALA | Second semester

University of Coimbra Department of Architecture FCTUC, Department of Archaeology FLUC School of Architecture - Colégio das Artes

Paulo Providência

Local Coordinator

Modules	Aims	Professors	Scientific disciplinary sectors (SDS)	ECTS	Hours	Didactics	Assessment
1.e Design Studio B Coimbra: Archaeology and Territory Design	A design studio course in architecture and archaeology, based on design exercises on specific archaeologic, landscape or urban sites, chosen with associated partners. The objective of the course is to produce design proposals where the analytical tools of archaeology allow support for architectural options of design, and vice versa, where architectural intentions and construction of meaning are incorporated in the various forms of archaeological intervention – from preventive archaeology to archaeological reconstruction.	J. M. Ribeiro P. Providência	ICAR/ 14 ICAR/ 15	12	300	design studio tutorials, masterclass lectures, seminar, site visits	Design Studio criticism sessions, involving invited architects and archaeologists
2.e Archaeogeography and territory techniques	The course gives a set of very precise tools of territorial analysis, contributing to the study of geo-historic subjects, not yet studied by areas like historical geography, geo-history and landscape archaeology. The course develops skills in the analysis of landscape lines of strength, communication axes, hydrographic elements, parcelling plots and habitat.	M. C. Lopes	ICAR/ 18 L-ANT/ 07 L-ANT/ 09 L-ANT/ 10	6	150	masterclass lectures, tools workshop	group work, designed compiled chart, oral presentation
3.e Landscape Archaeology: Architecture and Territory	Landscape Archaeology: Architecture and Territory is a theoretical course that extends common visions of architecture and archaeology, through an anthropological or anthropo-archaeological spatial approach. Taking the experience of the archaeology of bronze- and copper-age settlements, it proposes interpretations that evoke primordial perceptions of the organization of the natural space. The phenomenological approach of the course allows questioning of both disciplines, taking the landscape, the city and the territory as privileged locus of that articulation.	L. B. Alves	ICAR/ 14 ICAR/ 15 ICAR/ 21	6	150	masterclass lectures, seminars, tools workshop	individual report on an archaeological site
4.e Narratives of Restoration	As regards the Portuguese experience and international cases to be presented in the cycle of conferences of this subject, the student should understand and develop a critical perspective on different narratives of restoration, such as the relations that are established between the landscapes and built archaeological environment, as well as the desired musealization of space.	B. Gil R. Lobo P. Providência A. Rabaça	ICAR/ 14 L-ART/ 04	6	150	conferences, seminars, case studies	submission and discussion of a programme and essay

⁴ 1.e Module | Design Studio Archaeology and Territory Design

Professors

João Mendes Ribeiro Paulo Providência

Guest Lecturers

Catarina Raposo Maria Aleixo Fernandes Virgílio Hipólito Correia Vítor Dias

Tutors

Luisa Bebiano Pedro Martins

Schedule

Tuesday, Thursday 09.00 - 12.00am

Aims

The objective of the course is to produce design proposals where the analytical tools of archaeology allow support for architectural options of design, and vice versa, where the architectural intentions and construction of meaning is incorporated in the various forms of archaeological intervention - from preventive archaeology to archaeological reconstruction.

- February
 March

 15 Introduction and scope of the design studio
 03 Site reading mappings

 P. Providência
 J. M. Ribeir
- J. M. Ribeiro 08 Site readir 17 Preparation to site visit. mappings
- J. M. Ribeiro 22 Preparation to site visit.
- 22 Preparation to site visit.
 P. Providência
 24 Preparation to site visit.
 10 Site readin mappings J. M. Ribei
- J. M. Ribeiro
- 25 History of the archaeological excavations and Conimbriga wall V. H. Correla A plan for Conimbriga M. A. Fernandes Prospects for Conimbriga
- V. Dias Guided visit to the archaeological site
- J. M. Ribeiro 29 Design Strategie: P. Providência

P. Providê

15 Introductio

17 Landscape

22 First draft

24 First draf

C. Raposo

C. Raposo

P. Providên

31 Design Strategies J. M. Ribeiro

Themes

Each edition has its own themes, based on interventions in archaeological sites related to territorial and landscape problems. The current edition is fully dedicated to the enhancement of Conimbriga Museum and Archaeological Site. Starting from the persistence of segregation of the archaeological site in relation to the wider context in which it is inserted, the design studio reflects on the topic of archaeological site boundaries and walls as public spaces of mediation between the archaeological site, the urban continuum and the surrounding productive landscapes, and the role that archaeology infrastructures may have on that mediation. A particular place is given to the rehabilitation of the Monographic Museum of Conimbriga, thinking about the incorporation of the National Mosaic Restoration Agency, and the redesign of housing over the former roman amphitheatre.

Methods

The design studio exercises are developed through a reflexive practice, group work and tutored individual work. sepcific courses will allow to improve drawing and communication skills, through various forms of representation (analogue as well as digital) including model construction. Theoretical reflexion includes site visits reports, case studies, and a design process construction.

Assessment

There are two planned sessions of design studio criticism – one interim, and a final session – involving invited architects and archaeologists.

2.e Module | Archaeogeography and territory techniques

Professors

Maria da Conceição Lopes

Guest Lecturers

Alessandra Ponte Bruno Bairrão Magali Watteaux Miguel Reimão Costa

Tutors Ricardo Cabral

Schedule Thursday

14.00 - 17.00pm

Aims

The course gives a set of very precise tools for territorial analysis, oriented towards an approach of the transmission of forms of spatial organization in the long duration.

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Themes

The course develops skills in the field of archaeogeographical methods of reading and analysis of landscape forms, structured in the construction of the "Carte compilé" (GIS), which is a planimetric document that associates in the same geographical and geometric space information on parcels, buildings, communication routes, environmental and hydrographic elements, from different periods.

Methods

The course is organized with a blend of theoretical classes with practical exercising classes. Specific workshops in geographic information systems allow the various levels of information and respective interpretation to be incorporated.

Assessment

Group work of a compiled chart, orally presented.

	April		February	March	April	
ngs and iro	05 Preparation crit session P. Providência	10 Design communication P. Providência	17 Introduction and scope of the course C. Lopes	the Longue Durée: A Reading Key of the	21 Archaeogeography and Planimetric Landscapes; the soils chart - the	30 Spherology & Spherography: fin-de-siècle
ngs and	07 Interim Design Studio Critic Session J. G. Silva	12 Design communication J. M. Ribeiro	18 GIS module 1 + 2 R. Cabral	History of Territories M. Wateaux	compiled chart C. Lopes	cosmographies A. Ponte
ncia ngs and	V. H. Correia P. Miano	17 Preparation for the final presentation P. Providência	21 GIS module 3 + 4 R. Cabral	10 The medieval agrarian colonisation. Archéogéography of	28 Documents and Method: crossing geology, geo-history,	31 Montreal and the Artificial Intelligence Mandate: From
iro	19 Developing proposals P. Providência	19 Preparation for the final	24 Archaeogeography,	planned parcelling in portuguese alentejo M. Wateaux	with cartographies and cartographic	Cartography to Infographics A. Ponte
on to e Design Tools	21 Developing proposals J. M. Ribeiro	presentation J. M. Ribeiro	Archaeology, geoarchaeology - the compiled chart	17 What are the forms of	interpretation - the compiled chart C. Lopes	
e approach to	26 Developing proposals P. Providência	31 Preparation of design process P. Providência	C. Lopes	landscapes talking about? M. Watteaux	May	June
n objectivs	28 Developing proposals P. Providência	June		24 Landscapes of Lower Mondego B. Bairrão	26 The Landscapes of	02 SIG chart presentation The Compiled Chart C. Lopes
ncia	Мау	02 Preparation of design process J. M. Ribeiro		31 Domestic architecture and settlement in the	the Antiquarians A. Ponte	
ro	03 Developing proposals	07 Preparation of the crit session		central region of Anti- Atlas: conservation of heritage in the	27 Governing Climate: Maps and Territories A. Ponte	
ategies ncia	P. ProvidênciaO5 Developing proposals	P. ProvidênciaO9 Final Design Studio		perspective of local development M. R. Costa	28 The Archives of the Planet: Cartography	
ategies iro	J. M. Ribeiro	Crit Session J. F. Gonçalves F. Morgia V. Dias		n. K. Costa	and Human Geography A. Ponte	

⁶ 3.e Module | Landscape Archaeology: Architecture and Territory

Professors Lara Bacelar Alves

Guest Lecturers

Ana Vale Aurora Carapinha João Gomes da Silva João Muralha

Schedule Tuesday

14.00 - 17.00pm

Aims

Landscape Archaeology: Architecture and Territory is a theoretical course that extends common visions of architecture and archaeology, through an anthropological or anthropo-archaeological spatial approach.

Themes

Taking the experience on the archaeology of bronze- and copper-age settlements, it proposes readings that evoke primordial perceptions of the organization of the natural space. The historiography of interpretative paths, refers to landscape archaeology in archaeological parks; the construction of the archaeological territorial park, through the archaeological site; contexts, interpretation and preservation of archaeological territorial areas are other themes, as well as the professional approach to landscape archaeology.

The interpretations of architecture and landscape in antiquity, as well as in the nineteenth and twentieth centuries are also subject of study.

Methods

The fenomenological approach of the course allows to question both disciplines taking the landscape and the territory as privileged locus of that articulation. Magistral classes on relevant theoretical themes are articulated with courses on case studies, based on lecturers experience as landscape architects, archaelogists or architects.

Assessment

Construction of an individual report on an archaeological site (Castanheiro do Vento or Anta Grande do Zambujeiro), through a phenomenological approach, translating the landscape experience, annotations, photographic images and drawings.

4.e Module | Narratives of Restoration

Professors

Armando Rabaça Bruno Gil Paulo Providência Rui Lobo

Guest Lecturers

Lola Domenech Luísa Cortesão Maria Manuel Oliveira Nuno Brandão Costa

Schedule

Wednesday 14.00-17.00pm

Aims

Regarding the Portuguese experience in the field of heritage interventions and the international cases to be presented in the cycle of conferences of this subject, students should develop a critical perspective on different narratives of restoration, such as the relations that are established between the landscapes and the built archaeological environment. Organized by exploring the relationship between theoretical and philosophical concepts, architectural and archaeological techniques and interventions, the course aims to reinforce reflective practice in the enhancement and management of archaeologic sites.

Themes

For the current edition, the four concepts that presentations and seminars will be organized around are the ruin, spolia, stratigraphy and repristination. The themes will be presented through a seminar with readings, a lecture, and a project presentation including a discussion with the author.

Methods

The aim of this course is to debate a set of highly relevant examples of intervention in archaeologic sites by prominent authors, chosen to illustrate intervention concepts. These examples allow debate about the aims and results, and disciplinary and extra-disciplinary processes involved in the interventions. The lectures bring debate about highly qualified projects in both disciplines – architecture and archaeology – and broaden the cultural landscape of students.

Assessment

A final individual essay based on a programme for exploring a concept chosen from a previous list, presented orally and discussed.

February	March	April	May	February	March	April	Мау
 15 Introduction. Assessment methods and bibliography L. Alves 22 Archaeological Architecture: from the landscape to the site A. Vale 	 08 Archaeological Architecture: from the site to the landscape A. Vale 15 Concepts of Landscape Arcaheology J. Muralha 22 The archaeological park J. Muralha 29 The Poetics of Light - dialogues on [rock] Art, Architecture and Landscape L. Bacelar 	elements of the territory and the construction of landscape:	 O3 Questions of landscape representation J. G. Silva Io Landscape projects and interventions in archaeologic sites J. G. Silva I Landscape Heritage A. Carapinha INorth and South in Historic gardens in Portugal A. Carapinha June O7 Report presentation, corrections and assessment L. Alves 	 16 Introduction and scope of the course R. Lobo A. Rabaça B. Gil P. Providência 23 Introductory lecture to the concept of <i>Strata</i> B. Gil 	 Strata - Case study presentation and discussion: Luísa Cortesão B. Gil Reading Seminar on Strata B. Gil Reading Seminar on Strata Concept of Spolia A. Rabaça Spolia - Case study presentation and discussion: Nuno Brandão Costa A. Rabaça Reading Seminar on Spoli A. Rabaça Reading Seminar on Spoli A. Rabaça 	 06 Launching of the Practical Exercise / Choosing concepts and readings R. Lobo A. Rabaça B. Gil P. Providência 20 Introduction Lecture to the concept of <i>Limes</i> P. Providência 27 Limes - Case study presentation and discussion: Maria Manuel Oliveira / São Francisco de Real P. Providência 	 04 Reading Seminar on Limes P. Providencia 11 Introduction Lecture to the concept of Anastilosis R. Lobo 18 Anastilosis - Case study presentation and discussion: Lola Domenech / Forum Ampurias R. Lobo 01 Reading Seminar on Anastilosis R. Lobo 03 Reading Seminar on Anastilosis R. Lobo 04 Reading Seminar on Anastilosis R. Lobo 05 Assessment of the course / essay on a chosen concept R. Lobo A. Rabaça B Gil P. Providência

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February	March	
07 reception week	01	24 module 1.e, 2.e
08	02 visit to Santiago	25
09	da Guarda 03 module 1.e, 2.e	26 weekend
10 opening	04	27
Conference 11 Laurent Olivier	05 weekend	28
and Maria 12 Manuel Oliveira	06	29 module 1.e, 3.e
13 weekend	07	30 module 1.e, 3.e
14	08 module 1.e, 3.e	31 module 1.e, 2.e
15 module 1.e, 3.e	09 module 4.e	design studio mid term critic
16 module 4.e	10 module 1.e, 2.e	session P. Miano
17 module 1.e, 2.e	11	F. Morgia
18 module 2.e	12 weekend	
19 weekend	13	
20	14	
21 module 2.e	15 module 1.e, 3.e	
22 module 1.e, 3.e	16 module 4.e	
23 module 4.e	17 module 1.e, 2.e	
24 module 1.e, 2.e	18	
25	19 weekend	
26 weekend	20	
27	21	
28	22 module 1.e, 3.e	
	23 module 4.e	

April	Мау		June
05 module 1.e, 3.e	01 weekend	23 visit to the	01 module 4.e
06 module 4.e	02	Alhambra of Granada	02 module 1.e, 3.e
07 module 1.e	03 module 1.e, 3.e	24 seminar of Granada	03
08	04 module 4.e	25	04 weekend
09 weekend	05 module 1.e	26	05
10	06	27	06
11 holiday start	07 weekend	28 weekend	07
15 end of holidays	08	29	08
16 weekend	09	30	09 module 4.e
17	10 module 1.e, 3.e	31 module 1.e, 3.e	10
18	11 module 4.e		11 weekend
19 module 1.e, 3.e	12 module 1.e		12
20 module 4.e	13		
21 module 1.e, 2.e	14 weekend		
22 visit to Museum of Penafiel	15		
23 visit to Museum of Côa Valley	16		
24 Castelo Velho de Freixo de Numão	17 module 1.e, 3.e		
and Castanheiro 25 do Vento	18 module 4.e		
26 module 1.e, 3.e	19 module 1.e		
27 module 4.e	20 visit to Beja		
visit to São Francisco	21 visit to Mérida Museum and the		
de Real	City of Mérida		
28 module 1.e, 2.e	22 visit to Granada City Center		

Field Trips to Archaeological Sites and Museums

25 February 2022

Conimbriga Archaeological Site and Museum. Visit guided by Virgílio Hipólito Correia (MMC), Maria Fernandes (DGPC) and Vítor Dias (MMC).

02 March 2022

Visit to the Tower of Vasconcelos, Santiago da Guarda, Ansião. Visit guided by Luísa Cortesão (IPPC), Rodrigo Marques (CMA).

22 April 2022

Archaeological site of Mozinhos and Museum of Penafiel. Visit guided by Andreia Arezes (FLUP).

23 April 2022

Visit to the Archaeology Museum of the Côa Valley. Visit guided by Ana Vale (FLUP).

24 April 2022

Archaeological sites of Castelo Velho de Freixo de Numão and Castanheiro do Vento (3º millennium b.C.). Visit guided by João Muralha (UNL).

27 April 2022

Visit to São Francisco de Real, Braga. Visit guided by Maria Manuel Oliveira (EAUM).

20 May 2022

Visit to the archaeological excavations of Beja. Visit guided by Maria da Conceição Lopes, (UC).

21 May 2022

Visit to the Mérida, Archaeological Museum of Mérida, and Itálica.

22 May 2022

Visit to Granada City Center and Juan Domingo Santos works. Visit guided by Juan Domingo Santos.

23 May 2022

Visit to the Alhambra of Granada, and Seminar on Landscape, Architecture, Archaeology by Juan Domingo Santos. Visit to the site guided by Juan Domingo Santos.

24 May 2022

Seminar at the School of Architecture of Granada, with Juan Domingo Santos, in the afternoon.

Guest Lecturers

Alessandra Ponte, educated as Architect, PhD under supervision of Manfredo Tafuri at IUAV, Full Professor at the Université de Montréal, Montréal, Canada. Alessandra published extensively on landscape - among others *The House of Light and Entropy*, AA London, 2014.

Ana Vale, educated as archaeologist, with a PhD at the University of Porto. Her research has been mainly dedicated to the architecture and ways of organizing space in recent Peninsular Prehistory and gender archaeology and discourse production in Archaeology. Currently a full-time Research Fellow at the University of Porto.

Andreia Arezes, educated as archaeologist, with a PhD at the University of Porto. She's Assistant Professor at Faculty of Arts and Integrated Member at CITCEM. Her research has been mainly focused on early medieval funerary world, on ethnicity studies and historiography of archeology. She's currently responsible for GUIFARQ II - a research project in Archaeology, devoted to Castro de Guifões.

Aurora Carapinha, graduated in Landscape Architecture by the University of Évora in 1980, PhD in Landscape Arts and Technics at the same University in 1995. She's currently Professor at the University of Évora, director of PhD Programme in Arts and Technics of Landscape. Researcher at the CHAIA, local partner in the research project "Launching innovation-based Landscape Architecture Training Framework in Europe".

Bruno Bairrão, born in 1991, master in Archaeology of the Territory by the University of Coimbra, in 2016. Specialist in Middle-Age and Modern Archaeology. His master thesis on *Landscapes of the Lower Mondego* region, earned the classification of Excelent. He's preparing his PhD dissertation on Archaeogeography topic about the forms of the landscape.

Edgar Brito, 1984, Coimbra. Edgar Brito is a chartered Senior Structural Engineer from FEUP and PhD in architecture candidate at FAUP, where he teaches an experimental structural course for architects, since 2018. Previously worked at afaconsult, where he contributed for the design of structures for over 60 projects. He's a principal at Clanet&Brito.

João Gomes da Silva, educated as Landscape Architect, teaches at the Academy of Mendrisio, principal of Global, arquitetura paisagista, Lisbon, Portugal. João participated in numerous design competitions and projects in archaeological sites, bringing his very important landscape expertise.

João Muralha, PhD in 2008 by the University of Porto in Pre-history Archaeology, Muralha teaches at Nova University of Lisbon. Since 1996 his research interests are directed towards Landscape Archaeology, and have been excavating in the High Douro Region.

Juan Domingo Santos, is an architect and a Design Studio teacher at the Granada School of Architecture, and has been a visiting lecturer at EPF Lausanne; FAU Lisbon; FHS Cottbus, Germany; FATU Dresden; FAID Quito; Columbia University, New York; SAAD Guadalajara; AA Ireland, Dublin; and currently at the TU München, among others. His work has followed a research line concerning landscapes undergoing transformation and architectural operations on heritage buildings. His PhD thesis, 'The innovative tradition. On transformations in architecture and art', was selected for publication in the Arauitesis collection.

Lola Domenech, Olot 1967, architect. Educated at ETSAB (Higher Technical School of Architecture of Barcelona) in 1994. She currently directs her architecture and urban design office, combining professional activity with teaching. Her main interests are related with designing the public space and landscape architecture.

Luísa Cortesão, Architect by FA/UTL (1990), Post-Graduation in Recovery and Enhancement of Historic Buildings and Complexes (IST) and 3rd Cycle of the Advanced Studies Diploma, Doctoral Program in Architecture (IST). Develops professional activity linked to the area of heritage conservation. Since 2012 she has been working in the Department of Works of the Portuguese General Directory of Cultural Heritage, where she monitors interventions in monuments such as the Ajuda National Palace, Convent of Christ, National Pantheon, among others.

Luísa Trindade, Associate Professor in Art History (2019) at the Faculty of Arts, University of Coimbra, researcher at the Center for Social Studies (CES). In addition to teaching various subjects of History of Art in the degree and master's degree in History of Art (FLUC) and in the doctoral course Heritages of Portuguese Influence (III-CES), published: «A Casa Urbana em Coimbra. From the end of the Middle Ages to the beginning of the Modern Period». Coimbra: City Council, 2002 and «Urbanism in the composition of Portugal». Coimbra: Press of the University of Coimbra, 2013.

Laurent Olivier, is Curator in chief at the National Museum of Archaeology at Saint-Germain-en-Laye (France). He completed his Ph.D at the University of Cambridge. His research interests include history and theory of the archaeological discipline, as well as the archaeology of the present. His most recent book is devoted to the "germanisation" of European archaeology during the Nazi period (Nos ancêtres les Germains, Paris: Tallandier, 2012).

Magali Watteaux, "Maîtresse de conferences" in Medieval History and Archaeology at University of Rennes 2, Rennes, Frances, since 2013. PhD in Archaeology (archaeogeography), 2009, under the tutorship of Gérard Chouquer, La dynamique de la planimétrie parcellaire et des réseaux routiers en Vendée méridionale. Études historiographiques et recherches archéogéographiques. Magali published extensively on Archaeogeography.

Maria Aleixo Fernandes, architect (FAUT Lisboa 1986) has been architect at DGPC since 2011. PhD in architecture, UCoimbra, 2013. MsC in rehabilitation of landscape and architectural heritage, UÉvora 1999. Research interests and publications in earth techniques, heritage conservation and history of construction. Actually Maria is researcher at CEAACP, Coimbra. Maria Manuel Oliveira, architect by Escola Superior de Belas-Artes do Porto (1985) has been a professor at the School of Architecture of the University of Minho since 1997. PhD in 2007. Researcher at the Landscape, Heritage and Territory Laboratory (LAB2PT). His research interests focus on the field of intervention in built heritage and abandoned areas in the city.

Miguel Reimão Costa, is an Assistant Professor in Algarve's University where he teaches the undergraduate and masters program in Landscape Architecture, as well as the masters program in History and Heritage. He is a member of CEAACP/Ualg and member of the board of Campo Arqueológico de Mértola. His research interests include domestic architecture, settlements and the landscape in southern Portugal and the Mediterranean, from the modern period onwards.

Nuno Brandão Costa, Architect (FAUP, 1994), and PhD in Architecture, University of Porto, 2013. He's Assistant Professor at FAUP. His professional work has been extensively published. Curator of the Portuguese Pavilion at the Venice Biennale of 2018, invited critic in FAPyD-UNR de Rosário, Argentina, Harvard Graduate School of Design (GSD), Cambridge, EUA, École Polytechnique Federale de Lausanne (ENAC-EPFL) and ETH GTA Zürich, Switzerland.

Pedro Alarcão, Coimbra, 1961. Architect (FAUP, 1986), PhD in Architecture (*Building in the Ruin, About the* romanised city of Conimbriga, FAUP, 2009). Design Studio Teacher at FAUP since 1993, and of Project Methodologies in Advanced Studies in Architectural Heritage (CEAPA-FAUP). Coordinator of the research line Atlas of the Ancient Ways and Towns of Portugal (CEAU-FAUP), and co-founder of the International Centre for Architectural Design and Archaeology (ICADA).

Rodrigo Marques Pereira, Archaeologist graduated by the University of Coimbra. Teacher at the high school between 1995 and 2000. Since 2000 he began his activity as an Archaeologist at the service of the Municipality of Ansião. Among the various activities it carries out, the study, preservation and enhancement of the Roman villa in the Monumental Complex of Santiago da Guarda stand out.

Virgílio Hipólito Correia, PhD at the University of Coimbra, 2011, and Master in Achaeology. 1993. Virgílio has been working at the Museo Monográfico de Coinimbriga since 1990, where he was charged on excavations since 2012. He published extensively on Conimbriga.

Virgílio Lopes, Master in Art History at the Nova University of Lisbon in 2003, PhD in Archaeology at the University of Huelva in 2014. His research interests focus mainly in Late Antiquity Archaeology and Paleo-Christian Architecture, and he's a member of the Campo Arqueológico de Mértola since 1990.

Vítor Dias, Master in Archaeology, speciality in Roman Archaeology, University of Évora, 2003, PhD by the University of Évora, 2014. He's the Director of the Conimbriga Archaeological Site. His research interests are urban Archaeology, geo-mapping (GIS), environmental impact assessments (EIA), manual & digital cataloging and archiving.





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