

ECTS Information Package: Degree Programme

Master's degree in

PREHISTORIC ARCHAEOLOGY AND ROCK ART

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A - General Description

Programme Title - Mestrado em Arqueologia Pré-Histórica e Arte Rupestre

Qualification awarded - Master's degree in Prehistoric Archaeology and Rock Art

Level of qualification - Second-cycle degree, EQF Level 7; ISCED Level 5

Specific admission requirements

General

According to the Portuguese Law, the following candidates are eligible for entry to the course of study leading to the *Mestre* degree:

- Holders of a *licenciado* degree or legally equivalent corresponding to the first cycle of higher education;
- Holders of a foreign higher degree awarded on completion of a first-cycle programme organised in the framework of the Bologna Process;
- Holders of a foreign higher degree which is deemed by the Technical-Scientific Committee of ESTT-IPT to meet the requirements of a *licenciado* degree.
- Holders of an academic, scientific or professional curriculum which is deemed by the Technical/Scientific Committee of ESTT-IPT as appropriate to access the programme.

Specific

The following candidates are also admitted to the master's degree in Archaeology and Rock Art subject to admission quotas:

- Holders of a bachelor's degree or legally equivalent in such areas as Archaeology, History, Anthropology, Biology, Geology and other first-cycle degrees in human, earth and life sciences related areas.
- Holders of a foreign higher degree in archaeology, history, anthropology, biology, geology and other human, earth and life sciences related areas awarded on completion of a first-cycle programme organised in the framework of the Bologna Process;
- Holders of a foreign higher degree in archaeology, history, anthropology, biology, geology and other human, earth and life sciences related areas which is deemed to meet the requirements of a *licenciado* degree by the Program Coordinating Committee comprising IPT and UTAD members.
- Holders of a bacharel degree in Archaeology, History, Anthropology, Biology, Geology and other degrees in human, earth and life sciences related areas and a professional CV which is deemed by the Technical/Scientific Council of ESTT-IPT as appropriate to access the program.
- Holders of an academic, scientific or professional CV in Archaeology, History, Anthropology, Biology, Geology and other degrees in human, earth and life sciences related areas which is deemed by the Technical/Scientific Council of ESTT-IPT as appropriate to access the program.
- Holders of a *licenciado* or a legally equivalent degree in other scientific domains which are deemed, upon CV analysis, as meeting the requirements of a *licenciado* degree by the Program Coordinating Committee comprised of IPT and UTAD members.

Specific arrangements for recognition of prior learning (formal, non-formal and informal)

General

Granting of credits from prior learning is regulated by the Portuguese Law taking into account the level of credits and the field of study where they have been earned and is subject to the recognition of ESTT-IPT Technical/Scientific Committee.

- Training undertaken in the context of other higher education programmes of study from national or foreign HE establishments or organised in the framework of the Bologna Process or other prior learning can be credited towards the present programme of study;
- Credits earned from postgraduate studies can also be credited towards this programme of study;
- Professional experience or other training, different from the abovementioned ones, can also be credited towards this programme of study.

Specific

Credit transfer is limited to 60 ECTS credits and, in that event, students will be able to apply for completion of the program in one academic year.

Qualification requirements and regulations:

The master's degrees are regulated by the Portuguese Law and applicable program regulations established by the School of Technology-IPT.

In order to complete the master's degree it is necessary to accumulate 120 ECTS credits from modules, field and laboratory work, papers, congresses and final dissertation.

Each ECTS credit corresponds to 27 hours of work.

Profile of the program:

This course of study includes:

- A master's program organised into course units corresponding to 80 ECTS credits;
- A final dissertation worth 40 ECTS credits;

This master's degree was designed so as to develop competencies in the following technical-scientific areas: Prehistory (6 compulsory ECTS and up to optional 18 ECTS), Quaternary Geology (6 compulsory ECTS and up to 18 optional ECTS), Palaeoanthropology (6 compulsory ECTS and up to 18 optional ECTS), Methods and Techniques (6 compulsory ECTS and up to 18 optional ECTS), Museography and Didactics (6 compulsory ECTS and up to 18 optional ECTS), field and laboratory work (8 ECTS) e optional credits to be obtained in congress projects, publications and others (up to 9 ECTS). The minimum amount of ECTS credits required in taught modules is 63 and the maximum is 72.

Key learning outcomes:

Holders of the master's degree in prehistory archaeology and rock art must be able to:

- Identify and characterise archaeological sites in their environmental and cultural contexts;
- Identify archaeological resources and incorporate them in land planning programmes in order to attract investment and subsequent creation of workplaces and population settlement both at local and regional level;
- Have a good command of basic archaeological techniques in such areas as prehistory, protohistory and rock art;
- Be able to use basic vocabulary and understand the sub-areas of Prehistoric Archaeology, Rock Art, Lithic Technology, Ceramic Technology, Experimental Archaeology, Latin-American Archaeology, Computer Applications for Archaeology, Geoarchaeology, Palaeoanthropology, Archaeometry, Archaeobotany, Zooarchaeology, Museography and Didactics.
- Demonstrate full autonomy in at least one of the following sub-areas: Prehistoric Archaeology, Rock Art, Lithic Technology, Ceramic Technology, Experimental Archaeology, Latin-American Archaeology, Computer Applications for Archaeology, Geoarchaeology, Palaeoanthropology, Archaeometry, Archaeobotany, Zooarchaeology, Museography and Didactics.
- Be aware of the importance of enhancing and exploring archaeological resources as factors for profitability and minimization of negative impacts;
- Evaluate the scientific, didactic, patrimonial and cultural potential of areas of archaeological and landscape interest in order to use them as an instrument for regional promotion and development.

Draw up archaeological/tourist tour guides to disseminate and promote the areas of interest;

- Draw up archaeological heritage risk maps for land planning.

Occupational profiles of graduates with examples:

Holders of the master's degree in Prehistoric Archaeology and Rock Art are prepared to perform

- Public Sector:
 - Municipal Archaeologists;
 - Central government (DGPC and attached services);
 - Museums;
 - Heritage and tourism management services;
- Private Sector:
 - Organisations engaged in archaeological activities;
 - Organisations engaged in cultural and tourism activities;
 - Land management providers.

· Education:

- Higher polytechnic education;
- University education;
- Professional training in archaeology, cultural heritage and rock art.

· International labour market:

- Higher education;
- Museums;
- Government services;
- Professional training;
- Consultancy.

Access to further studies:

The master's degree in Prehistoric Archaeology and Rock Art allows access to third-cycle programs in the area of Archaeology, Quaternary, Cultural Heritage and other related areas as according to admission requirements set forth for those programmes. Graduates from this master's degree with a final mark above 16/20 have priority access to the Doctoral program Quaternary, Materials and Cultures offered by the UTAD.

Course structure diagram with credits

Course code	Course Title	Year	Semester	Credits
64983	Bioarchaeology and Human Evolution	1	A	6
64989	Cultural Heritage Management	1	A	3
64981	European Prehistory	1	A	3
649882	Field and Laboratory Activities	1	A	8
64984	Geology of Continental Quaternary Deposits	1	A	3
64985	Landscape Palaeoecology	1	A	3
64986	Lithic Technology and Typology	1	A	3
64988	Museum Development	1	A	3
649848	Option - Methods and Techniques (**)	1	A	0
649870	Option - Museography and Didactics (**)	1	A	0
649829	Option - Palaeoanthropology	1	A	0
649810	Option - Prehistory	1	A	0
649833	Option - Quaternary Geology (**)	1	A	0
64982	Prehistoric Art	1	A	3
64987	Rupestrian Archaeology	1	A	3
649881	Stand-Alone Activities	1	A	9
649883	Dissertation	2	A	40

(**) Free Option.

(*) This course may not be available in certain academic years. Please confirm availability with the Erasmus coordinator.

Examination regulations, assessment and grading

General

Assessment of course units complies with the Academic Regulations in force at ESTT-IPT, except for the Dissertation, Project and Internship, to which apply the provisions set out in the regulations for the master's degrees offered by the ESTT-IPT.

- Dissertation, Project and Internship have only two assessment seasons and the students are free to choose only one.
- The assessment calendar for the Dissertation, Project and Internship is proposed by the Programme Coordinating Committee to the Technical/Scientific Committee at the beginning of each academic year.
- The general grade improvement scheme does not apply to the Dissertation, Project and Internship.

The overall grade of the master's programme is the arithmetic weighted average rounded off to the ones of the number of ECTS credits and the grades of the course units that form part of the programme of study.

The 10-20 mark expressed on a 0-20 scale is converted into its equivalent in the European grading scale with the awards Satisfactory, Good, Very Good or Excellent.

Specific

Students shall prepare an original dissertation project subject to public discussion and consideration by an examination panel specially appointed for that purpose.

Assessment of the modules complies with the Academic Regulations in force at the School of Technology-IPT and the UTAD with the exception of specific regulations stemming from the Erasmus Mundus consortium (as this Master's degree is the Portuguese version of the Erasmus Mundus Master in Quaternary and Prehistory), namely:

- The annual nature of the program;
- Erasmus Mundus students have only two assessment seasons for presentation and discussion of their final dissertation and it can take place abroad in certain years;
- The academic calendar is approved by the scientific coordinating committees of IPT and UTAD taking into account the academic calendars of both institutions and, as far as possible, the ones of Erasmus Mundus partner institutions.
- Grade improvement does not apply to final dissertation.

Final grade is determined with basis on an arithmetic average of the grade obtained in the pre-thesis work and the dissertation using a 0-20 scale which is then converted by the examination panel as follows:

14,5 ? Good;

or = 14,5 < 16,5 ? Good with distinction;

or = 16,5 ? Very Good.

The 10-20 mark expressed on a 0-20 scale is converted into its equivalent in the European grading

scale with the awards Adequate, Good, Very Good or Excellent.

Graduation requirements:

Completion of the program requires a pass in all its constituent modules including the preparation and public defence of project work or internship report so as to accumulate 120 ECTS credits, of which 30 are compulsory, 40 correspond to the dissertation, 8 to field work and 42 to be selected among the optional modules available in the curriculum in compliance with general and specific assessment regulations.

Mode of study:

Full- or part-time.

Program director or equivalente

Director: Luiz Miguel Oosterbeek

Erasmus coordinator: Luis Filipe Neves Carreira dos Santos

B - Description of individual course units

Course unit title	Bioarchaeology and Human Evolution
Course unit code	64983
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	6
Name of Lecturer(s)	José Francisco Taborda Curate
Learning outcomes of the course unit	The students should be able to identify the main bones of the human skeleton, to interpret the human bones in archaeological contexts, be familiar and be able to interpret the major events of human evolutionary history and human natural history.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Not applicable.
Recommended optional programme components	Not applicable.
Course contents	Introduction to human osteology. Concepts of taphonomy. Recovery of human remains in archaeological contexts. Discriminate between human and non-human bones. Reconstructions of life from the skeleton. Specific fields: paleopathology Introduction to human evolution. The first hominids. The first exit from Africa and the first Europeans. The Neanderthals. The origins of the modern man.
Recommended or required Reading	<ul style="list-style-type: none"> - Sabrina, A. e , . (2012). <i>Social Bioarchaeology</i>. Chichester: Blackwell Publishing - Condemi, S.(2019). <i>A Pocket History of Human Evolution</i>. NY: The Experiment LLC - White, T.(2000). <i>Human Osteology</i>. San Diego: Academic Press - Conroy, G.(2012). <i>Reconstructing Human Origins: A Modern Synthesis</i>. NY: Norton
Planned learning activities and teaching methods	Oral presentation; observation and analysis of osteological material and fossil moulds, powerpoint presentations.
Assessment Methods and criteria	Essay writing.
Language of Instruction	Portuguese Mentoring in French
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Cultural Heritage Management
Course unit code	64989
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	Luiz Miguel Oosterbeek
Learning outcomes of the course unit	The students should have acquired general knowledge on: A. General concepts. B. Plans, projects and actions. C. The HERITY system. Case study analysis.
Mode of delivery	b-learning
Prerequisites and co-requisites	Not applicable.
Recommended optional programme components	Not applicable.
Course contents	I - Concepts II - Contexts of implementation III - Methodologies IV - Implementation
Recommended or required Reading	<ul style="list-style-type: none"> - Binks, G. e , E. (1988). <i>Visitors welcome: A manual on the presentation and interpretation of Archaeological Excavation</i>. London: Centre for environmental interpretation, Manchester Polytechnic - Oosterbeek, L. e Pollice, F. (2014). <i>Cultural heritage and local development. Local communities through heritage awareness and global understanding</i>. Ravello: CUEBC: Territori della Cultura - Oosterbeek, L.(2017). From Heritage into the Territory: agendas for an unforeseeable future.<i>Territori della Cultura</i>, 29, pp. 58-69. - Carbone, F.(2011). Turismo, Arqueologia e Desenvolvimento - Gestão de Áreas arqueológicas com fins Turísticos: O Caso de Conimbriga.<i>Journal of Tourism and Development</i>, 2015, pp. 103-115.
Planned learning activities and teaching methods	Lectures with debate and interdisciplinary essay.
Assessment Methods and criteria	Team work.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	European Prehistory
Course unit code	64981
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	Luiz Miguel Oosterbeek Alexandra Águeda de Figueiredo
Learning outcomes of the course unit	Introduction to the problematics of European Prehistory, identifying main research areas and topics on which students may specialise.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Not applicable.
Recommended optional programme components	Not applicable.
Course contentes	1. Quaternary and human colonisation in Europe 2. Controversies on the evolutionary lineage 3. The human origins in Europe 4. Hunters-Gatherers Societies 5. The first producers 6. Models
Recommended or required Reading	- Marta, A.(2009). L'industrie lithique du site Pléistocène inférieur de Pirro Nord (Apricena, Italie du sud) : une occupation humaine entre 1,3 et 1,7Ma'. <i>L'Anthropologie</i> - doi: 10.1016/j.anthro.2009.01.004, 113, pp. 47-58. - G., B.(2006). Transitions to Farming in Europe: Ex Oriente Lux?. <i>The agricultural revolution in prehistory: why did foragers become farmers?</i> , 0, pp. 325-381. - Eudald, C.(2008). The first hominin of Europe. <i>Nature</i> , 0, pp. 465-469. - Eudald, C.(2010). Early hominid dispersals: A technological hypothesis for "out of Africa". <i>Quaternary International</i> , -1, pp. 36-44.
Planned learning activities and teaching methods	Lectures supported by discussion and comparative text analysis.
Assessment Methods and criteria	Interdisciplinary work articulated with the Quaternary Geology module. Optional examination.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Field and Laboratory Activities
Course unit code	649882
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	8
Name of Lecturer(s)	Pierluigi Rosina Silvério Manuel Domingues Figueiredo Luiz Miguel Oosterbeek
Learning outcomes of the course unit	Applied training in field and laboratory techniques.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	NA
Recommended optional programme components	NA
Course contentes	Practical work in excavations, surveys and laboratory work, undertaken under the guidance of a lecturer and possible tutoring from specialized technicians.
Recommended or required Reading	
Planned learning activities and teaching methods	Practical work with continuous evaluation.
Assessment Methods and criteria	Monitoring of practical activities, following the model of progressive improvement by experience.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	NA

B - Description of individual course units

Course unit title	Geology of Continental Quaternary Deposits
Course unit code	64984
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	Pierluigi Rosina
Learning outcomes of the course unit	Basic Knowledge of the geological processes - and their chronostratigraphy - in continental deposits that keep archaeological remains. Description and representation of the stratigraphical units in the field and study methods in laboratory.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Not applicable.
Recommended optional programme componentes	Not applicable.
Course contentes	Study methods of Quaternary events, geochronology elements, isotopic paleoclimatology and palinological stratigraphy;- The crono-stratigraphy of continental and marine Quaternary; Glaciations: causes and effects in Europe; Geomorphology and deposition of continental formations.
Recommended or required Reading	- Butzer, K.(1982). <i>Archaeology as Human Ecology: Method and Theory for a Contextual Approach.</i> (Vol. 1). Cambridge: Cambridge University press
Planned learning activities and teaching methods	Lectures and case studies.
Assessment Methods and criteria	Practical assignment.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Landscape Palaeoecology
Course unit code	64985
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	Luis Filipe Neves Carreira dos Santos
Learning outcomes of the course unit	On completion of the module the students should be familiar with the key aspects of landscape transformation processes.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Not applicable.
Recommended optional programme components	Not applicable.
Course contents	A)Concepts of ecology B)Biogeography and Landscape Eco-Physicography C)World biomas and model ecosystems D)Portuguese ecosystems E)Plaeoclimatology methods F)World Plaeoclimatic and paleaenvironmental evolution G)Theoretical palaeoecology and privileged study contexts H)Introduction to research in Landscape Palaeoecology I) Landscape evolution in Europe and Portugal J) ...
Recommended or required Reading	<ul style="list-style-type: none"> - Bush, M.(2003). <i>Ecology of a Changing Planet</i>. (Vol. 1). USA: Prentice Hall, Upper Saddle River - Brenchley, P. e Harper, D. (2004). <i>Palaeoecology: Ecosystems, Environments and Evolution</i>. (Vol. 1). USA: Chapman&Hall - Forseth, I.(2010). <i>Terrestrial Biomes</i>. (Vol. 1). 8: Nature Education Knowledge - Davies, M.(1994). Ecology and paleoecology begin to merge.357-8. <i>Trends in Ecology and Evolution</i>, 9, pp. 357-368.
Planned learning activities and teaching methods	Lectures and field trips.
Assessment Methods and criteria	One written assignment and one test.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Lithic Technology and Typology
Course unit code	64986
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	Telmo Jorge Ramos Pereira
Learning outcomes of the course unit	The students should acquire basic skills that will enable them to study and analyse lithic remains.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Not applicable.
Recommended optional programme components	Not applicable.
Course contents	1-Introduction 2-Lithic technology: raw materials; carving mechanics; percutors; carving techniques; carving accidents 3-Products, stages and processes:façonage /debitage 4-Study methods:typology, technology 5-Practical application of techniques and concepts
Recommended or required Reading	<ul style="list-style-type: none"> - Inizan, M. e Reduron-Ballinger, M. e Roche, H. e Tixier, J. (1999). <i>Technology and terminology of knapped stone</i>. Nanterre: Cercle de Recherches et d'Études préhistoriques - Brézillon, M.(1983). <i>La Dénomination des objets de pierre taillée. Matériaux pour un vocabulaire des préhistoriens de langue française. (IV Supplé)</i>. . Paris: CNRS,. - Bordes, F.(1961). <i>La typologie du paléolithique ancien et moyen</i>. Paris: CNRS - Sonnevile-Bordes, D. e Perrot, J. (1954). Lexique typologique du Paléolithique supérieur.<i>Bulletin de la Société Préhistorique Française</i>, 51, pp. 327-335.
Planned learning activities and teaching methods	Theoretical-practical sessions.
Assessment Methods and criteria	Practical assignment.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Museum Development
Course unit code	64988
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	Luís Manuel Mota dos Santos Figueira
Learning outcomes of the course unit	Acquisition of instrumental skills (cognitive, methodological, technological and terminological), of interpersonal skills (interaction and cooperation individually or as part of a group) and systemic skills (understanding, sensibility and general and specific knowledge) in museography.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Not applicable.
Recommended optional programme components	Not applicable.
Course contents	1. Museology and Museography: historical background and general considerations. 2. The museographic construction as knowledge dissemination: potential and limits. 3. Practical component: implementation and evaluation of a museum development project(museum exhibition created for the purpose).
Recommended or required Reading	<ul style="list-style-type: none"> - VV, A.(2001). <i>Heritage and museology: a new convergence</i>. Londres: Museum International - Bessegato, M.(1999). <i>Revista de Museologia ? Arquitecturas para la mirada, nº 17</i>. Madrid: Asociación Española de Museólogos - Linares, J.(2004). <i>O património em sala de aula ? Acções Educativas</i>. Santa Maria: Evangraf - Ricardo, J.(1994). <i>Museo, Arquitectura y Museografía</i>. Cuba: VEGAP
Planned learning activities and teaching methods	Lectures supported by experimental study (in-person and virtual) research, literature review, and field trips. Practical project done individually or as part of a group.
Assessment Methods and criteria	Practical project (50%) and written theoretical component (50%). Final exam
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Prehistoric Art
Course unit code	64982
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	George Harold Nash
Learning outcomes of the course unit	On completion of the module the students should have acquired general knowledge of world prehistoric art, rock art and mobile art, all cultural eras and horizons as well as world sites.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Not applicable.
Recommended optional programme components	Not applicable.
Course contents	Introduction to prehistoric art. Characterization of Prehistoric Art: cave art, mobile art, megalithic art. The sculpture and other forms of art in Prehistory. Geographical distribution. The rock art of the five continents. The concept of zones, areas, set and complex.
Recommended or required Reading	<ul style="list-style-type: none"> - Nash, G. e Chippendale, C. (2004). <i>Figurative Landscapes of Rock Art</i>. Cambridge: Cambridge University Press. - Clottes, J.(2008). <i>Cave Art</i>. London: Phaidon Press - Lewis-Williams, D.(2004). <i>The Mind in the Cave: Consciousness and the Origins of Art</i>. London : Thames & Hudson. - Lévi-Strauss, C.(1963). <i>Structural Anthropology</i>. Basic : Books
Planned learning activities and teaching methods	Lessons are conducted using PowerPoint to demonstrate the subject matter supported by real-time digital content from the Internet.
Assessment Methods and criteria	Essay: written component (50%), oral component (50%)
Language of Instruction	English Mentoring in Portuguese
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Rupestrian Archaeology
Course unit code	64987
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	3
Name of Lecturer(s)	Sara Liliana Magalhães Barbosa Garcês
Learning outcomes of the course unit	An introduction to Rock Art Archaeology. On completion of this module, the students should be familiar with such concepts as style, figure, stratigraphy, chronology and time frame.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	The student must have a personal computer with an external mouse and internet access.
Recommended optional programme components	Not applicable.
Course contentes	1. Rock art as an archaeological object. 2. History of study methods. 3. Documentation of prehistoric art. 4. Pigment analysis and dating methods. 5. The UNESCO World Heritage list of rock art sites.
Recommended or required Reading	- SANCHIDRIÁN, J.(2005). <i>Manual de Arte Prehistórico</i> . Barcena: Ariel Prehistoria - Gomes, H.(2020). <i>Arqueometria de Pigmentos da Arte Rupestre. Caracterização mineralógica e técnicas de produção na arte esquemática da Península Ibérica ocidental</i> . Arkeos.. (Vol. 49). Mação: Instituto Terra e Memória
Planned learning activities and teaching methods	Classes are held using PowerPoint for demonstration of the subject supported by real time internet digital content. Practical classes are performed either in the rock art laboratory or in the field using institutional equipment.
Assessment Methods and criteria	Continuous assessment. Preparation of a small individual work with oral presentation.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	Not applicable.

B - Description of individual course units

Course unit title	Stand-Alone Activities
Course unit code	649881
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	First Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	9
Name of Lecturer(s)	Pierluigi Rosina Silvério Manuel Domingues Figueiredo Luiz Miguel Oosterbeek
Learning outcomes of the course unit	Accreditation of activities carried out outside the scope of IPT.
Mode of delivery	b-learning
Prerequisites and co-requisites	NA
Recommended optional programme componentes	NA
Course contentes	Training courses, articles, papers, projects.
Recommended or required Reading	
Planned learning activities and teaching methods	Students must, beforehand, suggest the activity to undertake and obtain the agreement of the course board. Later, they must submit evidence of the work performed, which will be evaluated, awarding the adequate ECTS.
Assessment Methods and criteria	Assessment of the articles, certificates or final reports of students.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	NA

B - Description of individual course units

Course unit title	Dissertation
Course unit code	649883
Type of course unit	Compulsory
Level of Course unit	Second Cycle
Year of Study	Second Year
Semester/Trimester when the course unit is delivered	Annual
Number of ECTS credits allocated	40
Name of Lecturer(s)	George Harold Nash Hipólito Collado Giraldo Alexandra Águeda de Figueiredo Pierluigi Rosina Rita Ribeiro de Carvalho Ferreira Anastácio Silvério Manuel Domingues Figueiredo Luis Filipe Neves Carreira dos Santos Fernando Augusto Rodrigues Coimbra Luiz Miguel Oosterbeek
Learning outcomes of the course unit	Students should be able to apply the knowledge and skills acquired during the master's degree for development with autonomy of an original research theme, and be able to adequately communicate the results obtained during the investigation.
Mode of delivery	Face-to-face
Prerequisites and co-requisites	Students should complete all the modules on the master programme before submitting the dissertation.
Recommended optional programme componentes	Not applicable.
Course contentes	Focus on the articulation between problems, methodology and data processing.
Recommended or required Reading	
Planned learning activities and teaching methods	Tutorials.
Assessment Methods and criteria	Written dissertation and its public discussion.
Language of Instruction	Portuguese Mentoring in English
Work placement(s)	The preparation of the thesis may include, where appropriate, a laboratory internship or alike.

