

ECTS Information Package: Degree Programme

Master's degree in

# CONSERVATION AND RESTORATION

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# A - General Description

**Programme Title** - Mestrado em Conservação e Restauro

**Qualification awarded** - Master's degree in Conservation and Restoration

**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

A first-cycle degree in Conservation and Restoration or other related areas with a significant component of conservation and restoration.

## **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

Not applicable.

## **Qualification requirements and regulations:**

The master's degrees are regulated by 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 distributed throughout 4 curricular semesters as according to the course curriculum.

Each ECTS credit corresponds to 27 hours of work.

### **Profile of the program:**

The study program is organised around two areas of expertise corresponding to two specialisation profiles:

- movable heritage;
- integrated heritage.

In any of these areas the study program includes:

- 2 semesters including 11 modules (a total of 60 ECTS), of which one has a strong practical component in one conservation and restoration speciality of the students' choice; 3 modules are selected among available options;
- 2 semesters corresponding to 60 ECTS dedicated to undertake professional internship or a dissertation in conservation and restoration.

**Key learning outcomes:**

- Develop and strengthen knowledge and skills obtained at 1st-cycle level.
- Apply acquired knowledge in new unfamiliar situations and in multidisciplinary contexts.
- Be able to assimilate new knowledge, deal with complex issues, devise solutions or make judgements in situations of restricted or incomplete information, including insights on the implications and ethical and social responsibility of those solutions or judgements.
- Be able to communicate conclusions as well as underlying knowledge and reasoning to specialists or non-specialists in a clear unequivocal manner.
- Develop skills that will enable the students to engage in lifelong learning in an autonomous self-oriented manner.
- Develop competences that will allow them to use creative, critical, autonomous and interdisciplinary skills to design, plan and integrate conservation and restoration products and processes according to international project regulations and relevant state-of-the-art.
- Acquire know-how and skills that will allow them to access the third-cycle, i.e. doctoral studies.

**Occupational profiles of graduates with examples:**

On completion of two courses of study in Conservation and Restoration totalling a 5-year training (licenciatura+mestrado), students are expected to be prepared to access the conservator-restorer profession according to international standards and recommendations for this activity sector, namely the European Network for Conservation-Restoration Education (ENCoRE), of which IPT is a member, and the European Confederation of Conservator-restorers' Organisations (ECCO).

Graduates from this master's program can be responsible for any conservation / restoration intervention, namely in cultural assets already classified or submitted for classification - which, according to the Portuguese law, requires 5-year training in conservation and restoration (Decree-Law No. 140/2009).

Apart from conservation and restoration related activities, graduates from this master's degree can also be engaged in the safeguard, enhancement and preservation of cultural assets in a wide range of organisations such as central and local government bodies, museums, charities, foundations, monuments, palaces, churches, convents, archaeological sites, antiquaries, auctioneers, property carriers, property management companies, conservation/restoration project offices and science/technology research laboratories.

**Access to further studies:**

This program gives access to doctoral studies (third-cycle) in conservation and restoration and other areas.

## Course structure diagram with credits

### Movable Heritage

Course Title	Year	Semester	Credits
Applied Conservation and Restoration	1	A	15.5
Advanced Examination and Analysis Methods	1	S1	5.5
Art and Culture I	1	S1	5.5
Collection Preservation	1	S1	4
Option I (Year1/Sem1)	1	S1	4
op: Portuguese Sculpture (*)	1	S1	4
Option II (Year1/Sem1) (**)	1	S1	4
Art and Culture II	1	S2	5.5
Art Expertise	1	S2	4
Collection Management	1	S2	4
Option III (Year1/Sem2) (**)	1	S2	4
Research Methodology	1	S2	4
Internship/ Dissertation	2	A	60
op: Dissertation	2	A	60
op: Internship/Placement	2	A	60

(\*\*) Free Option.

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

### Integrated Heritage

Course Title	Year	Semester	Credits
Applied Conservation and Restoration	1	A	15.5
Advanced Examination and Analysis Methods	1	S1	5.5
Architectural Heritage	1	S1	4
Art and Culture I	1	S1	5.5
Option I (Year1/Sem1)	1	S1	4
op: The Artwork and its Context (*)	1	S1	4
Option II (Year1/Sem1) (**)	1	S1	4
Art and Culture II	1	S2	5.5
Change and Changeability	1	S2	4
Integrated Heritage	1	S2	4
Option III (Year1/Sem2) (**)	1	S2	4

(\*\*) Free Option.

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

## Course structure diagram with credits (cont.)

### Integrated Heritage

Course Title	Year	Semester	Credits
Research Methodology	1	S2	4
Internship/ Dissertation	2	A	60
op: Dissertation	2	A	60
op: Internship/Placement	2	A	60

(\*) 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

Not applicable.

## **Graduation requirements:**

In order to complete the master's degree it is necessary to accumulate 120 ECTS credits, of which 60 correspond to internship and associated report or a dissertation, both subject to presentation and defence before an examination panel.

## **Mode of study:**

Full- or part-time.

## **Program director or equivalente**

Director: António João de Carvalho da Cruz

Erasmus coordinator: Fernando dos Santos Antunes

ECTS coordinator: António João de Carvalho da Cruz

## B - Description of individual course units

<b>Course unit title</b>	Applied Conservation and Restoration
<b>Course unit code</b>	338011
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Annual
<b>Number of ECTS credits allocated</b>	15.5
<b>Name of Lecturer(s)</b>	Ricardo Pereira Triães Carla Maria P. Calado Rodrigues do Rego Leonor da Costa Pereira Loureiro Fernando Manuel Conceição Costa
<b>Learning outcomes of the course unit</b>	On completion of this unit students should have developed a good degree of autonomy in conservation and restoration and be able to diagnose, examine, identify and record movable and immovable assets. Make proposals for intervention and prepare conservation and restoration reports.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contentes</b>	1. Speciality definition: Graphic Documents, Petrous Materials, Ceramic materials, Sculpture, Easel painting and Furniture. 2. Laboratory operation 3. Definition and development of a methodology for action 4. Conservation and restoration actions in movable and immovable cultural assets. 5. Preparation of a report.
<b>Recommended or required Reading</b>	- AAVV, (2001). <i>As rochas dos monumentos portugueses – tipologias e patologias</i> . (Vol. 1). Lisboa: IPPAR - Ferreira, I.(2009). <i>Azulejos tradicionais de fachada em Ovar: Contributos para uma metodologia de conservação e restauro</i> . Ovar: Câmara Municipal de Ovar - Brandi, C.(1988). <i>Teoría de la Restauración</i> . Madrid: Alianza Editorial - Almada, C. e Figueira, L. e Serrão, V. (2000). <i>História e restauro da pintura do retábulo-mor do Mosteiro dos Jerónimos</i> . Lisboa: IPPAR
<b>Planned learning activities and teaching methods</b>	Lectures and seminars with invited experts and field trips. Laboratory classes focused on the development of conservation and restoration projects.
<b>Assessment Methods and criteria</b>	Theoretical-practical assessment includes a written assignment (20%). Laboratory assessment includes class project work and final report (80%). Minimum pass grade is 10/20 calculated as the weighted average.
<b>Language of Instruction</b>	Portuguese   <b>Mentoring in Spanish</b>
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Advanced Examination and Analysis Methods
<b>Course unit code</b>	338015
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	5.5
<b>Name of Lecturer(s)</b>	António João de Carvalho da Cruz
<b>Learning outcomes of the course unit</b>	Be familiar with the main scientific approaches to the problems posed by the study of cultural heritage and develop skills that will allow students to select the most appropriate analytical strategy for the resolution of a material problem and to interpret the results.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Basics of chemistry, materials and general examination and analysis methods.
<b>Recommended optional programme componentes</b>	Not applicable.
<b>Course contentes</b>	1.Technical Literature 2.Content determination 3.Determination of techniques and technologies 4.Dating methods 5.Determination of the origin 6.Determination of authorship 7.Determination of the function of artifacts 8.Diagnosis and characterization of the state of preservation 9.Determination of the mechanisms of changing 10.Materials behaviour testing
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- Stuart, B.(2007). <i>Analytical Techniques in Materials Conservation</i>. Chichester: John Wiley &amp; Sons</li> <li>- Artioli, G.(2010). <i>Scientific Methods and Cultural Heritage. An Introduction to the Application of Materials Science to Archaeometry and Conservation Science</i>. Oxford: Oxford University Press</li> <li>- Bowman, S.(1991). <i>Science and the Past</i>. Toronto : University of Toronto Press</li> <li>- Craddock, P.(2009). <i>Scientific Investigation of Copies, Fakes and Forgeries</i>. Oxford: Butterworth-Heinemann</li> </ul>
<b>Planned learning activities and teaching methods</b>	Lectures and tutorials supported by the analysis of published papers.
<b>Assessment Methods and criteria</b>	Presentation and discussion of a paper (40 %) and written test (60 %).
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Art and Culture I
<b>Course unit code</b>	3380121
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	5.5
<b>Name of Lecturer(s)</b>	Maria Teresa Ribeiro Pereira Desterro
<b>Learning outcomes of the course unit</b>	The students will be familiar with the Portuguese cultural context throughout the nation's history approaching the work of art as an aesthetic, artistic and historical object. They should be able to collect, process and display scientific information in historical and artistic contexts.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme componentes</b>	Not applicable.
<b>Course contentes</b>	I - The Upper Middle Ages: 1. The political and cultural context 2. Mindset and culture 3. Contextualisation of the new art forms. II - The Lower Middle Ages: 1. The evolution of culture and mentality in the Iberian Peninsula. The monastic reforms 2. The Romanesque 3. The first gothic forms III - The Renaissance 1. Imperial mindset and culture in Portugal. The art forms.
<b>Recommended or required Reading</b>	- Dos Santos, R.(1966). <i>Oito Séculos de Arte Portuguesa</i> . (Vol. I). Lisboa: Empresa Nacional de Publicidade - Pereira (coord.), P.(1995). <i>História da Arte Portuguesa</i> . (Vol. I e II). Lisboa: Círculo de Leitores - Eco, U.(1987). <i>Arte e Beleza na Estética Medieval</i> . (Vol. 1º). Lisboa: Presença - Hauser, H.(1989). <i>História Social da Arte e da Cultura</i> . (Vol. I,II,III). Lisboa: Vega/Estante
<b>Planned learning activities and teaching methods</b>	Lectures and practical classes focused on text and artwork analysis and its cultural and artistic contextualisation. Tutorials.
<b>Assessment Methods and criteria</b>	One research project work on an under-explored topic, presentation and oral defense. Oral assessment of course content.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Collection Preservation
<b>Course unit code</b>	338016
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Fernando dos Santos Antunes
<b>Learning outcomes of the course unit</b>	The students should be familiar with the sociocultural, technological and scientific context of cultural assets; be able to apply concepts, standards and methods to the preservation of museum collections; develop the ability to manage risk in collection management. Design preservation plans.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	Concepts of collection preservation. Types of museum collections and structures - present context and strategies. Integrated Risk Management. Integrated preservation plan through the monitoring and control risk factors for collections during handling, storage, displacement, transport and display.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- ASLHEY-SMITH, J.(1999). <i>Risk Assessment for Object Conservation</i>. (Vol. 1). London: Butterworth-Heinemann</li> <li>- THOMSON, G.(1986). <i>The Museum Environment</i>. (Vol. 1). London: Butterworth-Heinemann</li> <li>- SCHAFFER, T.(2001). <i>Effects of Light on Materials in Collections: Data on photoflash and related sources</i>. (Vol. 1). New York: The Getty Conservation Institute</li> <li>- WALLER, R.(2003). <i>Cultural Property Risk Analysis Model</i>. (Vol. 1). Goteborg: Universitatis Gothoburgensis</li> </ul>
<b>Planned learning activities and teaching methods</b>	Lectures Practical classes including debates and critical analysis and supported by audiovisual resources. Tutorials for pedagogical, technical and scientific support.
<b>Assessment Methods and criteria</b>	Final assessment: public presentation of a website on preservation related issues(10%) Research project work (50%) Public presentation of research project (20%) and multimedia support (20%).
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Portuguese Sculpture (*)
<b>Course unit code</b>	3380128
<b>Type of course unit</b>	Optional
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Teresa Filomena Travassos Cortez da Cunha Matos
<b>Learning outcomes of the course unit</b>	The students will be able to contextualise the Portuguese Sculpture in the 12th and 16th centuries, describe its key characteristics and be familiar with the main artworks and respective authors.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	1. Middle-Age Sculpture: burial and other 2. The Manueline sculpture. 3. The Renaissance sculpture
<b>Recommended or required Reading</b>	- Dias, P.(1995). <i>A escultura maneirista portuguesa. Subsídios para uma síntese</i> . Coimbra: Minerva - Dias, P.(1987). <i>História da Arte em Portugal. O Manuelino</i> . Coimbra: Publicações Alfa - Dos Santos, R.(1950). <i>A Escultura em Portugal</i> . (Vol. I e II). Lisboa: .
<b>Planned learning activities and teaching methods</b>	Lectures and practical classes supported by audiovisual resources.
<b>Assessment Methods and criteria</b>	Final exam.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

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

## B - Description of individual course units

<b>Course unit title</b>	Art and Culture II
<b>Course unit code</b>	3380126
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	5.5
<b>Name of Lecturer(s)</b>	Maria Teresa Ribeiro Pereira Desterro
<b>Learning outcomes of the course unit</b>	The students should understand the evolution of culture and aesthetics in Portugal, grasp the context in which artistic phenomena emerged and be able to collect, process and critically analyse scientific information under a historical and artistic perspective.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	1. Cultural mindset in modern Portugal. 2. The new artistic context and changes of taste. Classicism and Anti-Classicism. From Renaissance to Mannerism. 3. The cultural paradigms of the Old Regime society. 4. From Proto-Baroque to the splendor of Joane Baroque. 5. The rococo.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- Barreira, J. <i>Arte Portuguesa</i>. (Vol. I,II,III,IV). Lisboa: Excelsior</li> <li>- Fernandes (dir), J.(1989). <i>Dicionário de Arte Barroca em Portugal</i>. Lisboa: Presença</li> <li>- Silva Sebastião, D.(1969). <i>A Política Cultural da Época de D. João III</i>. Coimbra: Universidade de Coimbra</li> <li>- Kubler; Soria, G.(1959). <i>Art and Architecture in Spain and Portugal and their American Dominions (1500-1800)</i>. (Vol. I). Londres: Penguin Books</li> </ul>
<b>Planned learning activities and teaching methods</b>	Theoretical and practical classes supported by text analysis and interpretation. Tutorials.
<b>Assessment Methods and criteria</b>	Preparation, presentation and defense of an original research project work. Oral assessment of course contents.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Art Expertise
<b>Course unit code</b>	338019
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Miguel de Barros Serra Cabral de Moncada
<b>Learning outcomes of the course unit</b>	An introduction to issues related with art expertise.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contentes</b>	Introduction. Technical expertise in art. The auxiliary sciences and its experts. Heuristics. Bibliography.
<b>Recommended or required Reading</b>	- Moncada, M.(2006). <i>Peritagem e Identificação de Obras de Arte</i> . Porto: Civilização - Moncada, M.(2008). <i>Faiança Portuguesa - séc. XVI a séc. XVIII</i> . Lisboa: Scribe
<b>Planned learning activities and teaching methods</b>	Lectures supported by case study analysis.
<b>Assessment Methods and criteria</b>	Two written tests or final examination.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Collection Management
<b>Course unit code</b>	338012
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Carla Maria P. Calado Rodrigues do Rego
<b>Learning outcomes of the course unit</b>	The course will enable the students to acquire theoretical and practical skills concerning the management of collections in museums or in an ecclesiastic context. Students will also be able to design and carry out projects involving research, preservation and display of art collections.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme componentes</b>	Not applicable.
<b>Course contentes</b>	1. Collections (museums, churches, private individuals, etc) 2. Museum management 3. Museum policies (collections – policies related with acquisition and lending, conservation, documentation, education, exhibition, research, human resources, communication, security, ...)
<b>Recommended or required Reading</b>	- FERNÁNDEZ, L.(2001). <i>Museologia y Museografía</i> . Barcelona: Ediciones del Serbal - LORD, B. e LORD, G. (1998). <i>Manual de Gestión de Museos</i> . Barcelona: EditorialAriel, SA - HERNÁNDEZ HERNÁNDEZ, F.(2006). <i>Manual de Museología</i> . Madrid: Editorial Síntesis - HERNÁNDEZ , J.(2008). <i>Manual de Museos</i> . Madrid: Editorial Síntesis
<b>Planned learning activities and teaching methods</b>	Theoretical and practical sessions; tutorials.
<b>Assessment Methods and criteria</b>	Final grade: class performance (10%) oral presentation (30%) written assignment (60%)
<b>Language of Instruction</b>	Portuguese   <b>Mentoring in Spanish</b>
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Research Methodology
<b>Course unit code</b>	3380127
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	António João de Carvalho da Cruz
<b>Learning outcomes of the course unit</b>	The students should be familiar with the different research stages and different types of technical and scientific literature; be able to make bibliographic research using digital resources; be able to organise papers, reports and dissertations; know the terminology and computer resources. ...
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Be able to use Internet and Microsoft Word.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	1.The research process: stages and development 2.Bibliographic research 3.Scientific and technical writing 4.Preparation of documents in digital format, especially apprenticeship reports and dissertations.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- Azevedo, M.(2011). <i>Teses, Relatórios e Trabalhos Escolares. Sugestões para a Estruturação da Escrita</i>. Lisboa: Universidade Católica Editora</li> <li>- Pereira, A. e Poupá, C. (2008). <i>Como Escrever uma Tese, Monografia ou Livro Científico Usando o Word</i>. Lisboa: Sílabo</li> <li>- Turabian, K.(2007). <i>A Manual for Writers of Research Papers, Theses, and Dissertations</i>. Chicago: The University of Chicago Press</li> <li>- Bennett, K.(2008). <i>English Academic Discourse: Its Hegemonic Status and Implications for Translation</i>. Lisboa: Faculdade de Letras da Universidade de Lisboa</li> </ul>
<b>Planned learning activities and teaching methods</b>	Lectures and practical classes in which exercises are performed by students and some common problems are discussed.
<b>Assessment Methods and criteria</b>	Written open-book test in regular examination periods.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Dissertation
<b>Course unit code</b>	3380365
<b>Type of course unit</b>	Optional
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	Second Year
<b>Semester/Trimester when the course unit is delivered</b>	Annual
<b>Number of ECTS credits allocated</b>	60
<b>Name of Lecturer(s)</b>	António João de Carvalho da Cruz
<b>Learning outcomes of the course unit</b>	The students should be able to use the knowledge and skills acquired during the degree to undertake an original research project work and to communicate the results of investigation.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Have a pass in all programme modules.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contentes</b>	Not applicable
<b>Recommended or required Reading</b>	- , , ..to be defined on the basis of the students choice of theme. .: .
<b>Planned learning activities and teaching methods</b>	Tutorials.
<b>Assessment Methods and criteria</b>	Written dissertation and its public discussion.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Internship/Placement
<b>Course unit code</b>	3380364
<b>Type of course unit</b>	Optional
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	Second Year
<b>Semester/Trimester when the course unit is delivered</b>	Annual
<b>Number of ECTS credits allocated</b>	60
<b>Name of Lecturer(s)</b>	António João de Carvalho da Cruz
<b>Learning outcomes of the course unit</b>	The students should be able to use the knowledge and skills acquired during the degree to undertake an original research project work and to communicate the results of investigation.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Have a pass in all programme modules.
<b>Recommended optional programme componentes</b>	Not applicable.
<b>Course contentes</b>	Not applicable
<b>Recommended or required Reading</b>	- ., ..to be defined on the basis of the students choice of theme. .: .
<b>Planned learning activities and teaching methods</b>	Tutorials.
<b>Assessment Methods and criteria</b>	Written internship report and its public discussion.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Internship carried out at IPT or at a company or an institution.

## B - Description of individual course units

<b>Course unit title</b>	Applied Conservation and Restoration
<b>Course unit code</b>	338021
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Annual
<b>Number of ECTS credits allocated</b>	15.5
<b>Name of Lecturer(s)</b>	Ricardo Pereira Triães Carla Maria P. Calado Rodrigues do Rego Leonor da Costa Pereira Loureiro Fernando Manuel Conceição Costa
<b>Learning outcomes of the course unit</b>	On completion of this unit students should have developed a good degree of autonomy in conservation and restoration and be able to diagnose, examine, identify and record movable and immovable assets. Make proposals for intervention and prepare conservation and restoration reports.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contentes</b>	1. Speciality definition: Graphic Documents, Petrous Materials, Ceramic materials, Sculpture, Easel painting and Furniture. 2. Laboratory operation 3. Definition and development of a methodology for action 4. Conservation and restoration actions in movable and immovable cultural assets. 5. Preparation of a report.
<b>Recommended or required Reading</b>	- AAVV, (2001). <i>As rochas dos monumentos portugueses – tipologias e patologias</i> . (Vol. 1). Lisboa: IPPAR - Ferreira, I.(2009). <i>Azulejos tradicionais de fachada em Ovar: Contributos para uma metodologia de conservação e restauro</i> . Ovar: Câmara Municipal de Ovar - Brandi, C.(1988). <i>Teoría de la Restauración</i> . Madrid: Alianza Editorial - Almada, C. e Figueira, L. e Serrão, V. (2000). <i>História e restauro da pintura do retábulo-mor do Mosteiro dos Jerónimos</i> . Lisboa: IPPAR
<b>Planned learning activities and teaching methods</b>	Lectures and seminars with invited experts and field trips. Laboratory classes focused on the development of conservation and restoration projects.
<b>Assessment Methods and criteria</b>	Theoretical-practical assessment includes a written assignment (20%). Laboratory assessment includes class project work and final report (80%). Minimum pass grade is 10/20 calculated as the weighted average.
<b>Language of Instruction</b>	Portuguese   <b>Mentoring in Spanish</b>
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Advanced Examination and Analysis Methods
<b>Course unit code</b>	338025
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	5.5
<b>Name of Lecturer(s)</b>	António João de Carvalho da Cruz
<b>Learning outcomes of the course unit</b>	Be familiar with the main scientific approaches to the problems posed by the study of cultural heritage and develop skills that will allow students to select the most appropriate analytical strategy for the resolution of a material problem and to interpret the results.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Basics of chemistry, materials and general examination and analysis methods.
<b>Recommended optional programme componentes</b>	Not applicable.
<b>Course contentes</b>	1.Technical Literature 2.Content determination 3.Determination of techniques and technologies 4.Dating methods 5.Determination of the origin 6.Determination of authorship 7.Determination of the function of artifacts 8.Diagnosis and characterization of the state of preservation 9.Determination of the mechanisms of changing 10.Materials behaviour testing
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- Stuart, B.(2007). <i>Analytical Techniques in Materials Conservation</i>. Chichester: John Wiley &amp; Sons</li> <li>- Artioli, G.(2010). <i>Scientific Methods and Cultural Heritage. An Introduction to the Application of Materials Science to Archaeometry and Conservation Science</i>. Oxford: Oxford University Press</li> <li>- Bowman, S.(1991). <i>Science and the Past</i>. Toronto: University of Toronto Press</li> <li>- Craddock, P.(2009). <i>Scientific Investigation of Copies, Fakes and Forgeries</i>. Oxford: Butterworth-Heinemann</li> </ul>
<b>Planned learning activities and teaching methods</b>	Lectures and tutorials supported by the analysis of published papers.
<b>Assessment Methods and criteria</b>	Presentation and discussion of a paper (40 %) and written test (60 %).
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Architectural Heritage
<b>Course unit code</b>	338022
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Fernando Sanchez Salvador
<b>Learning outcomes of the course unit</b>	The students should be able to systematise the key concepts concerning the operation, interpretation and intervention on architectural heritage, be able to research and approach historical buildings, monuments, artifacts and artworks, their memory and cultural context. Be familiar with legal and ...
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Basics of art history, conservation and restoration as well as building.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	Basics of constructed heritage. Movable and immovable, material and immaterial assets. Conceptual evolution of constructed heritage. Terminology used in the analysis, study and intervention on pre-existences. Criteria and methodologies for the conservation of immovable heritage. Typologies and models of intervention on architectural heritage. Survey, diagnosis and intervention project.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- AGUIAR, J.(2003). <i>COR E CIDADE HISTÓRICA. ESTUDOS CROMÁTICOS E CONSERVAÇÃO DO PATRIMÓNIO</i>, . Porto: Edições FAUP</li> <li>- A.A. V.V, A.(1977). <i>MASTER DE RESTAURACION Y RAHABILITACION DEL PATRIMONIO</i>. (Vol. VOLS 1-2-3). Madrid: Editorial Munilla-Lèria</li> <li>- A.A.V.V, A.(1999). <i>CAMINHOS DO PATRIMÓNIO 1929-1999</i>. Lisboa: DGEMN e Livros Horizonte</li> <li>- APPLETON, J.(2003). <i>REABILITAÇÃO DE EDIFÍCIOS ANTIGOS PATOLOGIAS E TECNOLOGIAS DE INTERVENÇÃO</i> . Amadora: Edições Orion</li> </ul>
<b>Planned learning activities and teaching methods</b>	Lectures and theoretical-practical classes focused on the presentation of students assignments. Tutorials focused on the resolution of practical cases and exercises.
<b>Assessment Methods and criteria</b>	CONTINUOUS ASSESSMENT: assignment containing analysis, research and syntesis which demonstrates methodological, cultural and scientific abilities. Practical assignments: 50% + research project work (50%). Public discussion and presentation.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Art and Culture I
<b>Course unit code</b>	3380221
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	5.5
<b>Name of Lecturer(s)</b>	Maria Teresa Ribeiro Pereira Desterro
<b>Learning outcomes of the course unit</b>	The students will be familiar with the Portuguese cultural context throughout the nation's history approaching the work of art as an aesthetic, artistic and historical object. They should be able to collect, process and display scientific information in historical and artistic contexts.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme componentes</b>	Not applicable.
<b>Course contentes</b>	I - The Upper Middle Ages: 1. The political and cultural context 2. Mindset and culture 3. Contextualisation of the new art forms. II - The Lower Middle Ages: 1. The evolution of culture and mentality in the Iberian Peninsula. The monastic reforms 2. The Romanesque 3. The first gothic forms III - The Renaissance 1. Imperial mindset and culture in Portugal. The art forms.
<b>Recommended or required Reading</b>	- Dos Santos, R.(1966). <i>Oito Séculos de Arte Portuguesa</i> . (Vol. I). Lisboa: Empresa Nacional de Publicidade - Pereira (coord.), P.(1995). <i>História da Arte Portuguesa</i> . (Vol. I e II). Lisboa: Círculo de Leitores - Eco, U.(1987). <i>Arte e Beleza na Estética Medieval</i> . (Vol. 1º). Lisboa: Presença - Hauser, H.(1989). <i>História Social da Arte e da Cultura</i> . (Vol. I,II,III). Lisboa: Vega/Estante
<b>Planned learning activities and teaching methods</b>	Lectures and practical classes focused on text and artwork analysis and its cultural and artistic contextualisation. Tutorials.
<b>Assessment Methods and criteria</b>	One research project work on an under-explored topic, presentation and oral defense. Oral assessment of course content.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	The Artwork and its Context (*)
<b>Course unit code</b>	3380228
<b>Type of course unit</b>	Optional
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	First Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Fernando Sanchez Salvador
<b>Learning outcomes of the course unit</b>	On completion of this unit students should have gained critical skills regarding the design, production and consumption/perception of a work of art in two main aspects: Intellectual and Physical Contexts. Constraining factors for the creative production of a work of art in its cultural context.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	Art critics and art crisis. Study of the consequences of artwork production in its different fields of expression: architecture, plastic arts, performative arts, decorative arts and mounting of exhibitions. Spatial, historical and display contexts. Public exhibition of works of art. The museum, the evolution of thought, cases, physical maintenance of museums. Museographies.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- ARGAN, .(1988). <i>ARTE E CRÍTICA DE ARTE</i>. Lisboa: Editorial Estampa, Imprensa Universitária nº66</li> <li>- MATTOSO, .(2011). <i>HISTÓRIA DA VIDA PRIVADA EM PORTUGAL</i>. (Vol. 1-4 ). Lisboa: Círculo de Leitores e Temas de Debates</li> <li>- PAIS DA SILVA, , J.(1975). <i>PRETÉRITO PRESENTE</i>. Lisboa: Congresso Internacional para a Investigação e de Defesa do Património Org. SEC, e Associação para a Defesa e Valorização do Património Cultural da Região de Alcobaça</li> <li>- AAVV, A.(2001). <i>PATRIMÓNIO ESTUDOS</i>. (Vol. Nºs 1-10 (2001-2007)). Lisboa: Publicação do MC-IPPAR- Instituto Português do Património Arquitectónico</li> </ul>
<b>Planned learning activities and teaching methods</b>	Exploratory Lectures and practical sessions focused on the discussion and presentation of practical assignments to peers.
<b>Assessment Methods and criteria</b>	Continuous assessment: practical assignment (30%) and discussion of final research project work (70%). Critical analysis of case studies.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

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

## B - Description of individual course units

<b>Course unit title</b>	Art and Culture II
<b>Course unit code</b>	3380226
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	5.5
<b>Name of Lecturer(s)</b>	Maria Teresa Ribeiro Pereira Desterro
<b>Learning outcomes of the course unit</b>	The students should understand the evolution of culture and aesthetics in Portugal, grasp the context in which artistic phenomena emerged and be able to collect, process and critically analyse scientific information under a historical and artistic perspective.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	1. Cultural mindset in modern Portugal. 2. The new artistic context and changes of taste. Classicism and Anti-Classicism. From Renaissance to Mannerism. 3. The cultural paradigms of the Old Regime society. 4. From Proto-Baroque to the splendor of Joanine Baroque. 5. The rococo.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- Barreira, J. <i>Arte Portuguesa</i>. (Vol. I,II,III,IV). Lisboa: Excelsior</li> <li>- Fernandes (dir), J.(1989). <i>Dicionário de Arte Barroca em Portugal</i>. Lisboa: Presença</li> <li>- Silva Sebastião, D.(1969). <i>A Política Cultural da Época de D. João III</i>. Coimbra: Universidade de Coimbra</li> <li>- Kubler; Soria, G.(1959). <i>Art and Architecture in Spain and Portugal and their American Dominions (1500-1800)</i>. (Vol. I). Londres: Penguin Books</li> </ul>
<b>Planned learning activities and teaching methods</b>	Theoretical and practical classes supported by text analysis and interpretation. Tutorials.
<b>Assessment Methods and criteria</b>	Preparation, presentation and defense of an original research project work. Oral assessment of course contents.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Change and Changeability
<b>Course unit code</b>	338029
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Dina Maria Ribeiro Mateus
<b>Learning outcomes of the course unit</b>	Understand the mechanisms underlying decay mechanisms of materials used in the works of art, the impact of environmental conditions and control methods. Be able to isolate and classify, by classic methods, microorganisms responsible for decay. Be familiar with molecular biology techniques.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Knowledge of chemistry, materials, microbiology and biochemistry.
<b>Recommended optional programme components</b>	Biochemistry and Microbiology.
<b>Course contents</b>	Alteration of inorganic, organic and synthetic materials used in cultural heritage assets – physical/chemical and biological actions: alteration and weathering mechanisms; living organisms involved in biodeterioration; microbial growth and control methods; Application of classic and molecular biology techniques in the identification of harmful biological agents.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- Aires-Barros, L.(2001). <i>As rochas dos monumentos portugueses. Tipologias e patologias</i>. (Vol. No.3). Lisboa: Cadernos IPPAR</li> <li>- Allsopp, D. e Seal, . e Gaylarde, C. (2003). <i>Introduction to Biodeterioration</i>. London: Cambridge University Press</li> <li>- Saiz-Jimenez , C.(2003). <i>Molecular Biology and Cultural Heritage</i>. Netherlands: Swet &amp; Zeitlinger B.V,</li> <li>- Mateus, D(). <i>Sebentas de Alteração e Alterabilidade</i>.Acedido em1 de fevereiro de 2012 em <a href="http://www.e-learning.ipt.pt">www.e-learning.ipt.pt</a></li> </ul>
<b>Planned learning activities and teaching methods</b>	Lectures supported by illustrative practical cases. Laboratory classes.
<b>Assessment Methods and criteria</b>	Presentation of laboratory results in the format of a scientific paper. Presentation and discussion of a selected paper. Minimum pass grade in each assessment component: 10/20.
<b>Language of Instruction</b>	Portuguese   <b>Mentoring in English</b>
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Integrated Heritage
<b>Course unit code</b>	338026
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	Ricardo Pereira Triães Fernando Manuel Conceição Costa José Manuel da Silva
<b>Learning outcomes of the course unit</b>	The students should be able to recognise the main integrated artistic manifestations, the materials and techniques used, the main causes of decay and inadequate interventions, be able to implement in situ measures for preventive conservation, make diagnosis and implement methodologies.
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Not applicable.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	1. Integrated stone-built heritage. 2. Integrated stonemasonry heritage. 3. Urban sculpture heritage. 4. Integrated ceramic heritage 5. Integrated wooden heritage 6. Mural tiling 7. Mural painting
<b>Recommended or required Reading</b>	- AAVV, .(2003). <i>El Estudio y la Conservación de la Cerámica Decorada en Arquitectura</i> . Roma: ICCROM - AAVV, .(1991). <i>Gilded Wood - Conservation and History</i> . Connecticut: Sound View Press - AAVV, .(2002). <i>Igreja da Madre de Deus – História, Conservação e Restauro</i> . Lisboa: IPM - AAVV, .(2001). <i>Igreja de S. Cruz de Coimbra, História, Conservação e Restauro da Fachada e Arco Triunfal</i> . Lisboa: IPPAR
<b>Planned learning activities and teaching methods</b>	Lectures supported by audiovisual resources and case study analysis with the collaboration of invited experts.
<b>Assessment Methods and criteria</b>	Preparation and presentation of a written project work including at least two different artistic manifestations in terms of support materials, finishing and production techniques.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

## B - Description of individual course units

<b>Course unit title</b>	Research Methodology
<b>Course unit code</b>	3380227
<b>Type of course unit</b>	Compulsory
<b>Level of Course unit</b>	Second Cycle
<b>Year of Study</b>	First Year
<b>Semester/Trimester when the course unit is delivered</b>	Second Semester
<b>Number of ECTS credits allocated</b>	4
<b>Name of Lecturer(s)</b>	António João de Carvalho da Cruz
<b>Learning outcomes of the course unit</b>	The students should be familiar with the different research stages and different types of technical and scientific literature; be able to make bibliographic research using digital resources; be able to organise papers, reports and dissertations; know the terminology and computer resources. ...
<b>Mode of delivery</b>	Face-to-face
<b>Prerequisites and co-requisites</b>	Be able to use Internet and Microsoft Word.
<b>Recommended optional programme components</b>	Not applicable.
<b>Course contents</b>	1.The research process: stages and development 2.Bibliographic research 3.Scientific and technical writing 4.Preparation of documents in digital format, especially apprenticeship reports and dissertations.
<b>Recommended or required Reading</b>	<ul style="list-style-type: none"> <li>- Azevedo, M.(2011). <i>Teses, Relatórios e Trabalhos Escolares. Sugestões para a Estruturação da Escrita</i>. Lisboa: Universidade Católica Editora</li> <li>- Pereira, A. e Poupá, C. (2008). <i>Como Escrever uma Tese, Monografia ou Livro Científico Usando o Word</i>. Lisboa: Sílabo</li> <li>- Turabian, K.(2007). <i>A Manual for Writers of Research Papers, Theses, and Dissertations</i>. Chicago: The University of Chicago Press</li> <li>- Bennett, K.(2008). <i>English Academic Discourse: Its Hegemonic Status and Implications for Translation</i>. Lisboa: Faculdade de Letras da Universidade de Lisboa</li> </ul>
<b>Planned learning activities and teaching methods</b>	Lectures and practical classes in which exercises are performed by students and some common problems are discussed.
<b>Assessment Methods and criteria</b>	Written open-book test in regular examination periods.
<b>Language of Instruction</b>	Portuguese
<b>Work placement(s)</b>	Not applicable.

