



## Study Plan

**School:** School of Social Sciences

**Degree:** Master

**Course:** Management and Enhancement of Historic and Cultural Heritage (cód. 489)

### Specialization Artistic Heritage and History of Art

#### 1st Year - 1st Semester

##### Specialization Artistic Heritage and History of Art

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS10994M	Heritage Conservation, Management and Enhancement	Cultural Heritage	10	Semester	260
HIS10995M	Inventory Methods and Techniques for Patrimonial Resources	Cultural Heritage	3	Semester	78
HIS10993M	Heritage and sustainable development: case study	Cultural Heritage	6	Semester	156
HIS10996M	Heritage theory, legislation and practice.	Cultural Heritage	6	Semester	156

#### Group of Options

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO11005M	Landscape and Garden Art	Landscape Arts and Techniques	5	Semester	130
HIS11006M	Aesthetics and Techniques of Handicrafts and Industrial Objects	History	5	Semester	130
HIS11007M	History of the Portuguese Art in the World	History of the Art	5	Semester	130
HIS11008M	Social History of Art and Culture	History of the Art	5	Semester	130
HIS11009M	Monumental Models, Paradigms and Itineraries	History of the Art	5	Semester	130
HIS11010M	Museum Heritage and the Construction of Memory	History	5	Semester	130
HIS11011M	Mines and Miners	History	5	Semester	130
HIS11012M	Engineering Works: Technical Know-how and Patrimonial Value	History	5	Semester	130
HIS11013M	Technology, Industry and Landscape Change	History	5	Semester	130
HIS11014M	World Technical Arabo - Islámico the Medieval Period	History	5	Semester	130
FIS11015M	Scientific Instrumentation	Physics	5	Semester	130
PAO11016M	Information Systems, Geography and Environment	Environment and Ecology Sciences	5	Semester	130

#### 1st Year - 2nd Semester

##### Specialization Artistic Heritage and History of Art

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS10997M	Art Heritage Management and Enhancement: Project	Cultural Heritage	10	Semester	260
HIS10998M	History of Art in Portugal: Themes and Concepts	History of the Art	5	Semester	130



### 1st Year - 2nd Semester

#### Specialization Artistic Heritage and History of Art

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS10999M	History of Occidental Art: Themes and Concepts.	History of the Art	5	Semester	130

#### Group of Options

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO11005M	Landscape and Garden Art	Landscape Arts and Techniques	5	Semester	130
HIS11006M	Aesthetics and Techniques of Handicrafts and Industrial Objects	History	5	Semester	130
HIS11007M	History of the Portuguese Art in the World	History of the Art	5	Semester	130
HIS11008M	Social History of Art and Culture	History of the Art	5	Semester	130
HIS11009M	Monumental Models, Paradigms and Itineraries	History of the Art	5	Semester	130
HIS11010M	Museum Heritage and the Construction of Memory	History	5	Semester	130

### 2nd Year - 3rd Semester

#### Specialization Artistic Heritage and History of Art

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS08148M	Research Seminar	Cultural Heritage	6	Semester	156
HIS08147M	Scientific Framework Seminar	Cultural Heritage	6	Semester	156

#### Mandatory alternatives

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Internship				
	Dissertation				

### 2nd Year - 4th Semester

#### Specialization Artistic Heritage and History of Art

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
<b>Mandatory alternatives</b>					
Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Internship				
	Dissertation				

### Specialization Scientific, Technological and Industrial Heritage

#### 1st Year - 1st Semester

#### Specialization Scientific, Technological and Industrial Heritage

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS10994M	Heritage Conservation, Management and Enhancement	Cultural Heritage	10	Semester	260
HIS10995M	Inventory Methods and Techniques for Patrimonial Resources	Cultural Heritage	3	Semester	78
HIS10993M	Heritage and sustainable development: case study	Cultural Heritage	6	Semester	156



**1st Year - 1st Semester**  
**Specialization Scientific, Technological and Industrial Heritage**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS10996M	Heritage theory, legislation and practice.	Cultural Heritage	6	Semester	156

**Group of Options**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO11005M	Landscape and Garden Art	Landscape Arts and Techniques	5	Semester	130
HIS11006M	Aesthetics and Techniques of Handicrafts and Industrial Objects	History	5	Semester	130
HIS11007M	History of the Portuguese Art in the World	History of the Art	5	Semester	130
HIS11008M	Social History of Art and Culture	History of the Art	5	Semester	130
HIS11009M	Monumental Models, Paradigms and Itineraries	History of the Art	5	Semester	130
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HIS11012M	Engineering Works: Technical Know-how and Patrimonial Value	History	5	Semester	130
HIS11013M	Technology, Industry and Landscape Change	History	5	Semester	130
HIS11014M	World Technical Arabo - Islámico the Medieval Period	History	5	Semester	130
FIS11015M	Scientific Instrumentation	Physics	5	Semester	130
PAO11016M	Information Systems, Geography and Environment	Environment and Ecology Sciences	5	Semester	130

**1st Year - 2nd Semester**  
**Specialization Scientific, Technological and Industrial Heritage**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS11065M	Scientific, Technological and Industrial Heritage Management and Enhancement: Project	Cultural Heritage	10	Semester	260
HIS11000M	Spaces, Structures and Objects of Industrial Production	History	5	Semester	130
HIS11001M	Spaces, Structures and Objects of Scientific Production	History	5	Semester	130

**Group of Options**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS11006M	Aesthetics and Techniques of Handicrafts and Industrial Objects	History	5	Semester	130
HIS11011M	Mines and Miners	History	5	Semester	130
HIS11012M	Engineering Works: Technical Know-how and Patrimonial Value	History	5	Semester	130
HIS11010M	Museum Heritage and the Construction of Memory	History	5	Semester	130
HIS11013M	Technology, Industry and Landscape Change	History	5	Semester	130
HIS11014M	World Technical Arabo - Islámico the Medieval Period	History	5	Semester	130
FIS11015M	Scientific Instrumentation	Physics	5	Semester	130



### 1st Year - 2nd Semester

#### Specialization Scientific, Technological and Industrial Heritage

Component code	Name	Scientific Area Field	ECTS	Duration	Hours

### 2nd Year - 3rd Semester

#### Specialization Scientific, Technological and Industrial Heritage

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS08148M	Research Seminar	Cultural Heritage	6	Semester	156
HIS08147M	Scientific Framework Seminar	Cultural Heritage	6	Semester	156

#### Mandatory alternatives

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Internship				
	Dissertation				

### 2nd Year - 4th Semester

#### Specialization Scientific, Technological and Industrial Heritage

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
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#### Mandatory alternatives

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Internship				
	Dissertation				

## Specialization Heritage and Environment

### 1st Year - 1st Semester

#### Specialization Heritage and Environment

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS10994M	Heritage Conservation, Management and Enhancement	Cultural Heritage	10	Semester	260
HIS10995M	Inventory Methods and Techniques for Patrimonial Resources	Cultural Heritage	3	Semester	78
HIS10993M	Heritage and sustainable development: case study	Cultural Heritage	6	Semester	156
HIS10996M	Heritage theory, legislation and practice.	Cultural Heritage	6	Semester	156



**1st Year - 1st Semester**  
**Specialization Heritage and Environment**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
<b>Group of Options</b>					
Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO11005M	Landscape and Garden Art	Landscape Arts and Techniques	5	Semester	130
HIS11006M	Aesthetics and Techniques of Handicrafts and Industrial Objects	History	5	Semester	130
HIS11007M	History of the Portuguese Art in the World	History of the Art	5	Semester	130
HIS11008M	Social History of Art and Culture	History of the Art	5	Semester	130
HIS11009M	Monumental Models, Paradigms and Itineraries	History of the Art	5	Semester	130
HIS11010M	Museum Heritage and the Construction of Memory	History	5	Semester	130
HIS11011M	Mines and Miners	History	5	Semester	130
HIS11012M	Engineering Works: Technical Know-how and Patrimonial Value	History	5	Semester	130
HIS11013M	Technology, Industry and Landscape Change	History	5	Semester	130
HIS11014M	World Technical Arabo - Islámico the Medieval Period	History	5	Semester	130
FIS11015M	Scientific Instrumentation	Physics	5	Semester	130
PAO11016M	Information Systems, Geography and Environment	Environment and Ecology Sciences	5	Semester	130

**1st Year - 2nd Semester**  
**Specialization Heritage and Environment**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO11002M	Environmental Impacts, Heritage and Spatial Planning	Environment and Ecology Sciences	5	Semester	130
PAO11003M	Landscape, Heritage and Ecosystems	Environment and Ecology Sciences	5	Semester	130
HIS11004M	Heritage and Environment: project practice	Cultural Heritage	10	Semester	260
<b>Group of Options</b>					
Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO11005M	Landscape and Garden Art	Landscape Arts and Techniques	5	Semester	130
HIS11010M	Museum Heritage and the Construction of Memory	History	5	Semester	130
PAO11016M	Information Systems, Geography and Environment	Environment and Ecology Sciences	5	Semester	130
HIS11013M	Technology, Industry and Landscape Change	History	5	Semester	130



**2nd Year - 3rd Semester**  
**Specialization Heritage and Environment**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
HIS08148M	Research Seminar	Cultural Heritage	6	Semester	156
HIS08147M	Scientific Framework Seminar	Cultural Heritage	6	Semester	156
<b>Mandatory alternatives</b>					
Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Internship				
	Dissertation				

**2nd Year - 4th Semester**  
**Specialization Heritage and Environment**

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
<b>Mandatory alternatives</b>					
Component code	Name	Scientific Area Field	ECTS	Duration	Hours
	Internship				
	Dissertation				



## Conditions for obtaining the Degree:

\*\*\* TRANSLATE ME: Área de Especialização em Património Artístico e História da Arte

Para aprovação na componente curricular nesta área de especialização é necessário a aprovação (através de avaliação ou creditação) das seguintes unidades curriculares:

1<sup>o</sup> Semestre:

- 4 UC obrigatórias num Total de 25 Ects
- 1 UC Optativa de 5 ECTS, podendo a u.c. ser escolhida de entre as várias unidades curriculares de opção das áreas de especialização do mestrado

2<sup>o</sup> Semestre:

- 3 UC obrigatórias num Total de 20 ECTS
- 2 UC Optativas disponíveis no quadro n.º 11 de optativas da especialização num total de 10 ECTS

3<sup>o</sup> Semestre:

- 3 UC obrigatória num total de 30 ECTS

Para obtenção do grau é necessário aprovação na Dissertação ou Relatório de Estágio no 4<sup>o</sup> Semestre num total de 30 Ects

Área de Especialização em Património Científico, Tecnológico e Industrial

Para aprovação na componente curricular nesta área de especialização é necessário a aprovação (através de avaliação ou creditação) das seguintes unidades curriculares:

1<sup>o</sup> Semestre:

- 4 UC obrigatórias num Total de 25 Ects
- 1 UC Optativa de 5 ECTS, podendo a u.c. ser escolhida de entre as várias unidades curriculares de opção das áreas de especialização do mestrado

2<sup>o</sup> Semestre:

- 3 UC obrigatórias num Total de 20 ECTS
- 2 UC Optativas disponíveis no quadro n.º 12 de optativas da especialização num total de 10 ECTS

3<sup>o</sup> Semestre:

- 3 UC obrigatória num total de 30 ECTS

Para obtenção do grau é necessário aprovação na Dissertação ou Relatório de Estágio no 4<sup>o</sup> Semestre num total de 30 Ects

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## Program Contents



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### **Heritage Conservation, Management and Enhancement (HIS10994M)**

1. The different typologies of cultural heritage
2. The principal Chartres of Heritage and the evolution of the concept of cultural heritage
3. The institutions related with the cultural heritage: objectives and activities.
  - 3.1- UNESCO and the classification of the World Heritage
  - 3.2. The Council of Europe
  - 3.3. ICOMOS
  - 3.4. TICCIH- The International Committee for the Conservation of the Industrial Heritage
  - 3.5. National and local institutions, public or private, dealing with the preservation and valorisation of cultural heritage.
4. The contemporary debates about cultural heritage and the concepts of conservation, restoration and preservation of heritage.
5. The different forms of cultural heritage valorisation
  - 5.1 The conservation in situ
  - 5.2 The musealization
  - 5.3 Thereutilisation
6. Tourism and Heritage
  - 6.1 "routes" and other forms of promoting cultural tourism
  - 6.2. The cultural heritage and the development of tourism: positive and negatives aspects

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### **Inventory Methods and Techniques for Patrimonial Resources (HIS10995M)**

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### **Heritage and sustainable development: case study (HIS10993M)**

1. The struggle for sustainability in development  
The emergence of the concept within the framework of the evolution of the environmental impact of human activities.  
The most important national and international documents relating to sustained development.  
The obstacles to the implementation of sustained development principles.  
How to measure the impact of human activity.  
Future perspectives of sustainability.
2. Heritage resources, development and sustainable management  
The need to assess and establish the value of patrimonial, natural and cultural heritage.  
The concept of cultural landscape and its importance as heritage.  
Monitoring indicators of Heritage resources. The specific case of areas of increased touristic demand.  
Demographic evolution and management of patrimonial, natural and cultural resources.  
Sustained development and participative management  
The importance of sustainability in valorization projects.
3. Case studies  
World Heritage lists. Case studies

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### **Heritage theory, legislation and practice. (HIS10996M)**



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### **Landscape and Garden Art (PAO11005M)**

The Portuguese Basic Environmental Law and the Krakow Charter are the starting points to the development of a set of considerations and approaches to the concept of Landscape: to examine the cultural, phenomenological and aesthetical dimensions; Landscape as cultural fact/data; the four levels of landscape transformation: production, protection, symbolic and ludic; rural (agro-systems) and Industrial Landscape that are being formed in the Portuguese territory; vacation farms, gardens, conventual fences, hunting grounds, parks, cemeteries, pilgrimage locations.

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### **Aesthetics and Techniques of Handicrafts and Industrial Objects (HIS11006M)**

1 - From materials to objects: Different materials and different objects shapes; The materials of contemporary society and objects new forms.

2 - The evolution of objects: handicraft and industrial production.

3 - From design to design: The design and technical expertise; Design and aesthetics of objects; The origins of the design and its evolution: The domestic space rationalization; The objects of everyday life-utility and aesthetics.

5 - The evolution of art concepts and its influence on industrial objects: The movements' Arts and Crafts" and Art Nouveau; The line geometry and the "industrial form": Futurism, Constructivism, De Stijl and the Bauhaus spirit.

6 - The artistic representations of industry: painting, architecture and ceramics.

7 - The function of the iconoclastic industrial objects: Dada and Pop Art

8 - The equity value of materials and crafts and industries: The museums; The industry objects in art museums; The Exhibitions.

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### **History of the Portuguese Art in the World (HIS11007M)**

1. Portuguese Expansion and the promotion of military and urban constructive programmes in the Imperial domains. The Royal Masters and the planning models for territorial occupation.

2. Where the Arts meet: Western Art canons and the exotic models for visual and figurative depiction; from the exquisite expression to mystical symbolisms. The case study of Portuguese Art in India.

3. The Jesuitical programmes and the extension of Baroque Portuguese Art in the world as the first globalization of Western Arts in Southern America, Africa and the East.

4. From colony to Kingdom: Portuguese programmes in Brazil between 17th and 19th Centuries; the case of Luso-Brazilian Art school up to 1820.

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### **Social History of Art and Culture (HIS11008M)**

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### **Monumental Models, Paradigms and Itineraries (HIS11009M)**



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### **Museum Heritage and the Construction of Memory (HIS11010M)**

Module Art History

- Looking at artistic objects
- Understanding museum collections

Module Cultural Landscape

1. Land Museums and Ecomuseums
  - 1.1. Searching for interventions criteria
  - 1.2. Heritage, landscapes and landscapes museums practices
  - 1.3. The concept of cultural landscape and its operational uses
  - 1.4. Intervention in landscape heritage: tools and strategies
2. Heritage as a land resource. Case studies

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### **Mines and Miners (HIS11011M)**

1. The social historiography on industry and mining communities. Sources and methodologies. 2. The technological and the business history of mining. The social history and the history of mining populations. Mining museums and representations of the past. 3. The evolution of the mining institutional framework in different European national contexts, business organization and the international trade of ores and metals. 4. Mining rushes, capitalism and colonialism (19th to 20th centuries). 5. The technological evolution of mining engineering from the steam to electricity. 6. Paternalism and communalization in the "free market" societies. 7. The mining companies in colonial contexts. Adaptation and change of the African lineage and peasant societies. 8. Mining communities: recruitment, careers, migrations. 9. The conflict and their organization: from revolt to trade unions and social integration. 10. Mining industry and environmental protests, 19th to 20th centuries.

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### **Engineering Works: Technical Know-how and Patrimonial Value (HIS11012M)**

1. From military engineering to civilian engineering: the evolution of a profession and the definition of the fields of intervention.
2. Engineers as agents in the transfer and adoption of technologies
3. Engineers knowledge and intervention in the territory
  - 3.1. Surveys and knowledge of the territory
  - 3.2. Construction of networks of roads and the "works of art" of engineering
  - 3.3. Great hydraulic works: dams and harbours
  - 3.4. Intervention in urban spaces and the building of water, sewers, electricity and communication infrastructures.
4. Representations of works of engineering
  - 4.1. In photography
  - 4.2. In prints and paintings
5. The recognition of the patrimonial value of works of engineering
  - 5.1. Case studies of landmarked buildings
  - 5.2. Analysis of the different forms of drawing attention to and enhancing the value of these works: transformation in museums; insertion in "routes"; web portals and others.



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### **Technology, Industry and Landscape Change (HIS11013M)**

1. History, Nature, landscape, technology and industry: definition of concepts
2. Energy and landscape
  - 2.1. The use of water resources
    - a) The water resources as a driving force, changing the course of rivers and the location of industry
    - b) The dams
    - c) Thermal springs - an industry of exploitation of natural water resources
  - 2.2. The use of wind as a driving force: from windmills to wind turbines
- 3.- The construction of transportation networks
  - 3.1. The layout of railways and roads network
  - 3.2 Bridges and viaducts
- 4 - The industry and the mines
  - 4.1 - large factories in urban and rural spaces.
  - 4.2.- mines and the visible and invisible alterations in landscapes
- 5 - The landscape heritage
  - 5.1 - The European Landscape Convention
  - 5.2 - Study cases of landmarked landscapes as cultural heritage

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### **World Technical Arabo - Islámico the Medieval Period (HIS11014M)**

Introduction - The historical context. Islam in the Middle Ages: a general perspective

1. The culture in Islam
  - 1.1. The Muslim history and the West, "a forgotten inheritance"?
  - 1.2. Islam and the assimilation of knowledge: from translation to production
2. Islam and techniques
  - 2.1. The water
    - 2.1.1. The water on religion and Islamic law
    - 2.1.2. The water and cities
    - 2.1.3. Water and agriculture
    - 2.1.4. The sea, ships and navigational instruments
  - 2.2. The fire
    - 2.2.1. Alchemy and chemical technology-Jabir b. Hayan (Geber) between myth and History
    - 2.2.2. Glass and ceramics
    - 2.2.3 Metallurgy and military techniques
  - 2.3. The earth
    - 2.3.1. The construction techniques
3. The protagonists
  - 3.1. Craftsmen and cities: social status, organization and quality control (hisba)
  - 3.2. A rediscovered inventor: Al-Jazari (1136-1206)

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### **Scientific Instrumentation (FIS11015M)**

Technical development and creation of instruments of measurement instrumentation and the emergence of scientific instrumentation, scientific instrumentation, their characteristics over several historical epochs; The main types of scientific instrumentation: its use, its evolution and its contributions to knowledge scientific; the relationship between scientific instrumentation and technical development, the needs of creating new standards of measurement and development of scientific instrumentation.

By studying the different types, and characteristics of scientific instruments, will focus its own historical evolution, and the study over different historical epochs of relations between scientific and technical knowledge: implications in creating instruments that allowed the man, and transform nature, to know it in their features less accessible to observation straightforward.



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**Information Systems, Geography and Environment (PAO11016M)**

- 1) What is a Geographic information System (GIS) - Introduction, Components and functionalities
- 2) Models of data
  - c) Vectorial Model; Raster/matrix-related Model; three-dimensional Model
  - b) Models of databases
- 3) Acquisition of geographical data;
  - c) Digital Cartography;
  - b) Remote Detection;
    - i) Satellite Images;
    - ii) Orthophotomaps
  - d) Topographical systems and GPS
- 4) Geo-referencing of data
  - i) Geodesy;
  - ii) Systems of coordinates
- 5) Geo-processing of data
  - i) Vector
  - ii) raster
- 6) GIS applications for heritage

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**Art Heritage Management and Enhancement: Project (HIS10997M)**

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**History of Art in Portugal: Themes and Concepts (HIS10998M)**

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**History of Occidental Art: Themes and Concepts. (HIS10999M)**

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**Research Seminar (HIS08148M)**

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**Scientific Framework Seminar (HIS08147M)**

This seminar aims to provide the students with a scientific update about the themes they are dealing with. Therefore, specialists of different areas will be invited to lecture on themes that can frame the work been produced by the students. Simultaneously, the means by which to justify the importance and pertinence of the study of a given theme or a determined case will be discussed with the students, as well as how to establish problems related to a theme or case, and how to elaborate a "state of the art" about a theme or case.



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### **Spaces, Structures and Objects of Industrial Production (HIS11000M)**

1. Technological progresses and their influences upon the methods of industrial production and the creation of new products and materials;
2. Changes in spaces of industrial production;
3. Laboratories devoted to materials resistance and industrial production;
4. New materials and new constructive structures;
5. Development of industrial products as a response to new consumer patterns;
6. Technological and industrial progresses and the abandonment of old industrial structures.

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### **Spaces, Structures and Objects of Scientific Production (HIS11001M)**

History of scientific work within a professional community - History and Historiography of Science. Themes in modules that can shape the triumph of Laboratory. Sources for the History of Science. Science, research and society - scientific construction of identities, circulation, and use of objects / scientific knowledge. The construction of memory and commemoration scientific and cultural practice accepted / recognized / commissioned by society. The scientific heritage and identification marks for Science in the context of Western civilization. Study visits organized by networks that fit this UC.

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### **Environmental Impacts, Heritage and Spatial Planning (PAO11002M)**

1. Introduction to the concepts of Environmental and Sustainability Assessment - concepts of disturbance, naturalness and artificiality.
2. The concept of Environmental Impact Assessment within the conceptual framework of Environmental Management.
3. Legal framing of Environmental Impact Assessment: national and European Union legislation. Specific legislation relating to the field of Heritage. Critical analysis of existing legislation.
4. Environmental Impact Assessment studies: general stages.
5. Specific methodology regarding the assessment of impact upon Heritage.
6. Post-evaluation in regards to Environmental Impact: assessment of conformity, monitoring and auditing.
7. Basic legislation regarding Town and Country Planning in Portugal: PDM, PROT, REN, RAN, Rede NATURA 2000, Plano Nacional de Ordenamento do Território.

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### **Landscape, Heritage and Ecosystems (PAO11003M)**

1. What Ecosystems Are and How They Work?
2. Ecosystems: Units of Sustainability
3. Ecosystems: How They Work
3. Ecosystems: In and Out of Balance
5. Ecosystems: Adapting to change
6. Carrying Capacity
7. Landscape and Ecosystem
8. Cultural Landscape
9. Relationship between Natural and Cultural Landscape

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### **Heritage and Environment: project practice (HIS11004M)**

1. Presentation of theoretical aspects for the development of projects linking heritage and the environment, in particular the use of natural resources;
2. Selection of heritage structures directly related with differentiated aspects of the environment;
3. Distribution of the themes to be pursued, individually or in small groups;
4. Regular work presentation and critical commentaries.