



Université Paris 1 Panthéon-Sorbonne

Master de Recherche «Histoire»

Spécialité: Histoire des Sciences et Histoire des Techniques

Process : TPTI

WHAT IS TPTI?

TPTI is a master course focusing on the investigation of industrial heritage and historical technical environments, the program aims at teaching tools as to enhance technical knowledge and managing industrial landscapes. It is offered by the University of Paris 1 Pantheon-Sorbonne (France) with the Universities of Padova (Italy), Evora (Portugal), Alicante (Spain), the Faculty of Arts and Humanities of Sfax (Tunisia), the Czech Technical University in Prague (Czech Republic) and the Federal University of Technology of Paraná (Brazil). The course is mainly addressed to historians, architects and experts in the preservation of cultural heritage, as well as economists and managers specialized in cultural heritage.



Training: Students are led to specialize in technical, craft and industrial heritage, exploring the dual aspects of culture and territorial impact (architecture, landscape), TPTI combines historic and architectural analysis, research and management, research-oriented action, with a view to sustainable development. TPTI offers a highly qualified learning environment and introduces students to their professional careers by organizing internships, by offering language courses and a variety of mobility opportunities in European and non-European partner countries.

Objectives: The course aims at training experts and cultural managers, who may effectively work in international networks and on complex case-studies. Graduates will offer a multidisciplinary point of view and an innovative perspective on issues related to the enhancement of cultural, industrial and technical heritage.

Career Opportunities: Students may pursue their studies at doctoral level (the TPTI Consortium offers a PhD Program in applied history, *HERITECHS*); they may also undertake careers within public and local Institutions (museums, inventories, collections dealing with industrial and technical archaeology); they may operate as cultural mediators and consultants (supporting museum design projects or management and development of monumental sites and structures; designing cultural paths and itineraries for industrial tourism); they may choose to work in the field of communication (scientific and technical journalism).



TPTI DEGREE

A Joint diploma is awarded by the Panthéon-Sorbonne University of Paris 1, that is a Master Degree fully recognized by the University of Évora and the University of Padova.

Graduates also receive a *Diploma supplement*: such document is produced in English and gives a detailed record of the Student course work, field of studies and internship activities.

WORKING LANGUAGES

TPTI is based on a scientific network having long worked on matters such as the evolution of technical thought, the social history of industry and industrial archaeology in connection with territorial planning and regional development. French and English are the main languages of this network, which maintains close ties with universities of Central Europe and Latin America.

The following language courses are offered:

- French and English at Panthéon-Sorbonne University – Paris 1 in France
- Italian and English at the University of Padova in Italy



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- Portuguese and French at the University of Évora in Portugal.

THE SUPERVISED COLLECTIVE PROJECTS

Students work in groups, combining their respective skills: architecture, history, archaeology, museology, business administration or law. Each group is supervised by three tutors, PhD students and professionals, one per university program. Meetings are held in person and via web-conference every other week. At the beginning of the course, each group receives a general topic, which is related to a number of selected areas of research agreed upon by the teaching staff. Students are supposed to develop their topic in two years. Their areas of activity may be the following:

- development of a museum concept, enhancing a significant industrial site or collection, *or*
- the implementation of a virtual museum, *or*
- the implementation of an inventory, *or*
- cultural enhancement of a significant site or collection, *or*
- the organization of an exhibition.

Students will have to contribute to their assignment both as team members and individuals. Their final project has to be shared on line, they are also asked to write their own report on the part of the project they have personally developed. Such summary will be presented with their final thesis, at the end of the program.

When students should spend the Fourth Semester (S4) in different Universities, their work continues on the TPTI Moodle (Distance Learning Platform) and by web-conference.

By working in groups, students are pushed to foster inter-professional exchange and discussion. They are also required to focus on the possible marketability of their projects.

CONTINUOUS ASSESSMENT

Continuous assessment is based on the evaluation of a variety of items. Students are monitored on their diligence, commitment, synopsis or synthesis during seminars and courses; students are also asked to present a report on their internship and projects; they are also evaluated on their contribution to the *tutored project*. As refers to *Specialized mobility* students are evaluated on the regular attendance of seminars and the writing of a final report which describes the activities they have undertaken.

CLASS STRUCTURE

Learning Unit (LU) and seminar titles	Total hours (lectures)	Credits
Semester 1 (Université Paris 1 Panthéon-Sorbonne)		
LU n. 1: Practical Training and Methodology		10
Technical Systems, History, Epistemology (A.-F. Garçon)	26h	3
Training Unit		7
- Internship		
- <i>Tutored project</i>		
- Follow-up on project		
- History/heritage-focused IT project (G. Romero)		
LU n. 2: Fundamentals: The History and Anthropology of Techniques		10
History of Technical Thought (A.-F. Garçon)	26h	5
Energy and Materials: The Medieval and Modern World (A.-F. Garçon, S. Benoit)	26h	5
LU n. 3: Scientific Environment		10
- Webinar TPTI	9h	
- 1 additional seminar from the following:	26h	5
Material and Spiritual Heritage from the Middle Ages to Today (H. Drévilion)		
The History of Scientific Knowledge (B. Belhoste)		
Transportation and Mobility (M. Flonneau, V. Guigueno)		
Technical and Scientific Culture in Europe, 1600s-1700s (J.F. Belhoste)		
- 2 language courses (French, English, Italian, Portuguese)	39h	5



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Semester 2 (University of Padova)

LU n. 1: Training and Methodology

Museography of Industrial Heritage: Definitions, Objects, Investigation Methods, Inventory, Conservation and Communication (M. Negri) 26h 3

Training Unit

- Site visits

- *Tutored project*

- Company Archives and the Sources of Industrial Heritage (G. Bonfiglio Dosio)

LU n. 2: Fundamentals: Conservation, Management and Development of Industrial Heritage

From Archaeology to Industrial Heritage (G. L. Fontana) 26h 5

Industrial heritage and Local Development (G. L. Fontana, G. Guerzoni, U. Bocconi) 26h 5

LU n. 3: Scientific environment

- Webinar TPTI 9h

- 1 additional seminar from the following: 26h 5

City and Industry (G. Zucconi, P. Chierici)

Industrial Heritage and Project (F. Mancuso, A. Massarente, M. Trisciuglio)

Management and Industrial Heritage (M. Nuccio, E. Lazzaro)

Industrial Heritage and the oral history: Anthropological Approaches (E. Novello, F. Fava)

- 2 language courses (English, Italian) 39h 5

Semester 3 (University of Evora)

LU n. 1: Practical Training and Methodology

Heritage, Museology and the Construction of Memory (F. Themudo Barata, J.A. Gomes Machado) 26h 3

Training Unit

- Site visits

- *Tutored project*

- Images and Sources of Technical Heritage (A. Cardoso de Matos)

- Project monitoring

LU n. 2: Fundamentals: Management and Development of Technical Heritage and Cultural Landscapes

Ecosystems, Landscapes and Heritage Management (F. Themudo Barata, S. Capelo, A. Fialho Conde) 26h 5

Landscapes of Technical Innovation: Analysis and Societal Impact (A. Cardoso de Matos, A. Carapinha, P. Guimaraes) 26h 5

LU n. 3: Scientific environment

- Webinar TPTI 9h

- 1 additional seminar from the following: 26h 5

Aesthetics and Techniques of Artisanal and Industrial Objects (A. Cardoso de Matos, P. Simoes Rodrigues)

Techniques of the Arab and Muslim World in the Medieval Era (F. Barros, F. Branco Correia)

History and Heritage of Engineering (A. Cardoso de Matos, M. A. Barnardo)

Scientific and Cultural Heritage (C. Dias, J. Mira, A. Candeias)

- 2 language courses (French, Portuguese) 39h 5

Semester 4

LU n. 1: Internship and field work

5

LU n. 2: Final dissertation (personal + collective project)

25



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INTERNSHIP AND FIELD WORK:

The internship and field work offer students a specific point of view on international best practices, which aim at enhancing cultural and industrial heritage. The three-week internship is organized during the first semester of studies (S1). The field work is usually foreseen during the second (S2) and third (S3) semester and focuses on the presentation and investigation of a specific case study (a factory or production site, a museum, an archive, etc.). Students are first invited to learn more about the specific site features and prerogatives, which are discussed in class with the help of town planners, historians, archaeologists and architects. Students will then visit the site and be asked to write a mandatory report. These activities are mentioned in the diploma supplement.

Specialty mobility: It is a period of study and research based on a specific topic. Students are invited to select a theme, which they will develop at a partner University. The mobility lasts 5 weeks and is foreseen during the fourth (S4) semester. In the framework of their specific area of expertise, each Host University offers three main areas of activity.

- Heritage and Economics of Cultural Property at the University of Alicante (Spain);
 - Economics of Natural Resources (J. Melgarejo)
 - The Factors of Entrepreneurial Competitiveness (J.A. Miranda)
 - Tourism Economics (A. Ramon)
- Archaeology and Development at the University of Sfax (Tunisia);
 - Traditional Shipyards in the Mediterranean Sea (A. Barkaoui)
 - Mediterranean Island Heritage: the example of Kerkenna islands (A. Fehri)
 - Public Policy and Territorial Enhancement: The Ottoman era in Tunisia (M. El Bahi)
- Social History of Contemporary Technology at the Czech Technical University of Prague (Czech Technicum University, Czech Republic).
 - Technical Cultures and Social Development: The Czech Example (M. Efmertova)
 - Techno - sciences and the Factory of History (Z. Benes)
 - History of Electricity and Electrification (M. Efmertova)
- Work, Mediation and Culture, Sustainability at the Federal University of Technology of Paraná (UTFPR, Curitiba, Brazil).
 - Long-lasting Technology (E. Kruger, M. Corrêa da Silva, E. Fassi Casagrande Jr.)
 - Genre and Technology (M. Gomes de Carvalho, N. Stancki da Luz)
 - Design and culture (L. Ernesto Merkle, M. Lopes Pinheiro Queluz)

INTERNATIONAL SCIENTIFIC COMMITTEE (CSI)

Every year the program undergoes an evaluation, which is carried out by the International Scientific Committee (CSI). This Committee is composed by a group of academics and professionals recognized for both their experience and the quality of their expertise: J.-C. Dumas, University Professor of Economic History, University of Franche-Comté; H.L. Diemel, Director for Technology and Society, University of Technology, Berlin; Mr. El Faiz, Professor of Economic and Agronomic History, University Cadi Ayyad of Marrakesh, Morocco; Mr. Saül, Professor, Department of Anthropology, University of Illinois, United States; A. Vilanova, architect in Barcelona; Belem Oviedo Gamez, President of TICCIH Mexico.

CONTACTS

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