COURSE DATA

DATA SUBJECT

Code: 33907
Name: Industrial Architecture
Cycle: Undergraduate Studies
ECTS Credits: 6
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1006 - Degree in History of Art	Facultat de Geografia i Història	4	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1006 - Degree in History of Art	Contemporary art and media	ELECTIVES

COORDINATION

BESO ROS ADRIAN

SUMMARY

In this subject we will try to approach the richness and diversity of typologies of architecture related to industrial production processes. This includes, in addition to the factory buildings themselves, all those typologies produced with industrial techniques and materials and which are typical of the industrial society, among which we find workers' colonies, communication networks, collective facilities, etc. The impact of industrialisation on the territory and on architecture will be analysed and a tour will be made of the different architectural typologies classified by sectors, considering for each of them a diachronic evolution of the type in relation to various aspects, such as the changes in the materials used in construction or the energy sources used in the production process. Based on this conceptual approach and understanding its cultural value, the restoration and valorization of the site will be addressed.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

There are no prerequisites for this subject. However, it is advisable to have a basic knowledge of the history of contemporary architecture and the history and management of artistic heritage.

COMPETENCES / LEARNING OUTCOMES

1006 - Degree in History of Art

Ability to develop and deliver content, both orally and in writing, to both specialized and non-specialized audiences

Ability to develop and present orally or in writing management projects related to the professional activities of Art History

Ability to gather and interpret relevant data and make judgments that include reflection on aspects of artistic production in its different facets

Ability to interpret the environment based on analysis, observation and deduction of information from artistic works produced throughout history

Ability to solve problems that arise in the professional practice as an art historian or as a heritage manager

Ability to work in a team and to integrate into multidisciplinary teams from other areas of knowledge

Act autonomously in learning, making informed decisions in different contexts, forming judgements based on experimentation and analysis, and transferring knowledge to new situations.

Apply a scientific methodology to any type of action and decision related to knowledge of Art History

Apply different methodologies to the comprehensive analysis of the work of art

Applying acquired knowledge in the field of heritage to current problems in the conservation and management of historical, artistic and cultural heritage

Apply the knowledge acquired in formulating hypotheses, synthesizing information, and formulating conclusions in an organized manner.

Apply the knowledge on documentation, composition of materials and construction techniques in the study and management
dels béns artistic furniture and immobles

Be able to analyse and synthesise information from the various contents of art history and to apply it to professional practice.

Be able to apply basic knowledge to future professional situations through appropriate organisation and planning of the contents of art history.

Be able to apply the basic knowledge acquired by means of applying critical reasoning to the analysis and assessment of alternatives.

Be able to assess artistic production under the perspective of sustainability, forging values and attitudes

that contribute to the sustainable development of the environment.

Be able to design an integral project for the management of artistic property, from its knowledge to its social exploitation.

Be able to present management and dissemination projects in all fields of art history, both orally and in writing.

Be able to use the knowledge acquired to formulate hypotheses, make summaries and draw orderly conclusions.

Be acquainted with contemporary art.

Be acquainted with historical-artistic heritage.

Capacity to recognize diversity and multiculturalism through the connection and study of other cultures

Collaborate effectively in teams, assuming responsibilities and leadership roles and contributing to collective improvement and development.

Communicate effectively, both orally and in writing, adapting to the characteristics of the situation and the audience.

Contribute to the design, development and implementation of solutions that address social needs, taking the Sustainable Development Goals as a reference.

Demonstrate critical and self-critical reasoning within the field of study, considering aspects such as professional ethics, moral values and the social implications of the different activities undertaken.

Develop autonomous learning and the necessary skills that promote interpersonal relationships

Embrace motivation for quality through a personal ethical commitment to the professional environment

Express oneself correctly, both orally and in writing, in any of the official languages of the Valencian Community.

Have an updated knowledge of bibliography and ability to analyse it critically, and be able to make a synthesis from a critical stand.

Have systematic and integrated knowledge of the artistic product, through the analysis of the different languages, procedures and techniques of artistic production throughout history.

Interpret graphics, photographs, moving images, computer graphics, and materials related to works of art, applying instrumental knowledge of Art History

Knowledge of Contemporary Art

Knowledge of Historical and Artistic Heritage

Knowledge of the different languages, procedures, and techniques of artistic production throughout history

Knowledge of the main databases and specialized bibliographic sources

Knowledge of the spatio-temporal coordinates of Art History

Make direct contact with artistic works through visits to historical monuments, museums and exhibitions that show this type of work to the public.

Prepare state-of-the-art reports based on information from documentation relating to artistic works

Propose creative and innovative solutions to complex situations or problems within the field of study, in order to respond to diverse professional and social needs.

Recognizing the importance of continuing education in order to update knowledge and contribute to the advancement of the humanities

Show motivation for quality through a personal ethical commitment to the professional environment.

To express oneself orally and in writing in one's own language.

To use appropriate terminology and technical vocabulary of art history

To value artistic production from the perspective of sustainability and equality among people, contributing to the development of democratic values ¿¿and a culture of peace.

Understand and recognise, from within the discipline, inequalities based on sex and gender in society; integrate different needs and preferences related to sex and gender into problem-solving and solution design.

DESCRIPTION OF CONTENTS

1. INDUSTRIAL ARCHITECTURE. DEFINITION AND CHARACTERISTICS

The Industrial Revolutions. Recognition of Industrial Heritage. Basic concepts: industrial heritage, industrial archaeology, industrial architecture. Characteristics and new concepts of industrial architecture. Factory typologies. The aesthetics of industrial architecture.

2. PRODUCTIVE SECTORS: HEAVY INDUSTRY

Mining. The iron and steel industry. Machinery and capital goods manufacturing. Energy production: gas, thermal power, and hydroelectric power. Construction materials: the ceramics industry and the cement industry.

3. PRODUCTIVE SECTORS: LIGHT INDUSTRY

Agri-food production: architectures for storage, processing, and trade: wheat, rice, oranges, and wine. The textile industry. Paper manufacturing.

4. TRANSPORT, COMMUNICATIONS, AND PUBLIC WORKS

Roads (bridges, road workers' cottages). Railways (iron bridges, tunnels, stations, auxiliary facilities). Optical telegraphy. Lighthouses. Hydraulic engineering works.

5. ARCHITECTURAL TYPOLOGIES. CITY AND HOUSING

Drinking water supply. Architecture for provisioning (markets and slaughterhouses). Educational architecture. Prison architecture. Workers' housing. Cemeteries.

6. RESTORATION AND ENHANCEMENT OF INDUSTRIAL ARCHITECTURE

Intervention criteria. Industrial museums. Cultural spaces and art centers. Commercial spaces. Educational facilities. Residential complexes. Administrative complexes and office buildings. Multifunctional spaces. New urban spaces. Routes and greenways. European cultural itineraries.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	45,00
Classroom practices	15,00
Total hours	**60,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	15,00
Individual or group project	20,00
Independent study and work	30,00
Preparation of lessons	10,00
Preparation for assessment activities	10,00
Resolution of case studies	5,00
Total hours	**90,00**

TEACHING METHODOLOGY

The course is structured around the following points:

a) Three hours of face-to-face classes per week:

These are theoretical-practical lessons given by the lecturer, using visual media, in which the essential aspects of the subject are presented, systematizing the bibliography. The practical component will be

carried out in these face-to-face classes, which may include the commentary and analysis of texts or images related to the subject.

b) Attendance at seminars, guided visits or other activities:

This section may include compulsory attendance by students at activities organized by the teacher. These activities will be determined by the number of students in the group.

c) Attendance to tutorships:

The student will be able to attend during the hours of attention to the students that the professor has established, to make consultations on any subject or aspect related to the subject and the professor will be able to arrange the realization of programmed tutorships when he considers it convenient.

EVALUATION

The assessment of the course will consist of the following activities, with the specific weighting towards the final grade indicated below.

FINAL EXAM: 60%
SUBMISSION OF PRACTICAL ASSIGNMENTS, COURSEWORK, OR COMPLEMENTARY ACTIVITIES: 40%

The specific characteristics of the assessments and activities, as well as the assessment criteria, will be explained in detail in the addendum to the course guide, which will be made available on the virtual learning platform at the beginning of the teaching period.

It is necessary to obtain at least 40% of the mark of the final exam to pass the subject, that is to say, at least a 4 out of 10.

Practical assignments, coursework, or complementary activities must be submitted in the first examination session. In the second examination session, only the final exam may be retaken.

For information on students' obligations when using AI in assessed activities and regarding the declaration of responsible use of AI, please see the "Guia d'actuació per a l'ús responsable de la intel·ligència artificial (IA) en les activitats docents i d'avaluació a la Universitat de València" at the following link: https://www.uv.es/graus/normatives/Guia_actuacio_IA_UV.pdf
p>

REFERENCES

Basic references

- AGUILAR CIVERA, Inmaculada: *Arquitectura industrial. Concepto, método y fuentes*. València: Museu

d'Etnologia, 1998.

- BENÉVOLO, Leonardo: *Historia de la Arquitectura Moderna*. Barcelona: Gustavo Gili, 1994.

- BIEL IBÁÑEZ Mª Pilar; CUETO ALONSO, Gerardo J. (coords): *100 elementos del patrimonio industrial en España*. Madrid: TICCIH, 2011.

- CASTELLANO, Aldo (ed). *La macchina arrugginita: Materiali per un'archeologia dell'industria*. Milano: Feltrinelli Editore, 1982.

- CERDÀ, Manuel; GARCÍA BONAFÉ, Mario*: Enciclopedia valenciana de arqueologia industrial*. València: Edicions Alfons el Magnànim-Diputació de València, 1995.

- CLAVER GIL, Juan; SEBASTIÁN PÉREZ, Miguel Ángel: *Aproximación y propuesta de análisis del patrimonio industrial inmueble español.* Madrid: UNED, 2016.

- DARLEY, Gillian. *La fábrica como arquitectura: Facetas de la construcción industrial*. Barcelona: Editorial Reverté, 2010.

- NAVASCUÉS, Pedro: *Arquitectura e ingeniería del hierro en España (1814-1936).* Madrid: Fundación Iberdrola, 2007.

- PARDO ABAD, Carlos J.: *El patrimonio industrial en España. Paisajes, lugares y elementos singulares*. Madrid: Akal, 2016.

- PEVSNER, Nikolaus: *Historia de las tipologías arquitectónicas*. Barcelona, Gustavo Gili, 1979.

- *Plan Nacional de Patrimonio Industrial*. Disponible en: https://links.uv.es/vYCC1nk

- SOBRINO, Julián: *Arquitectura industrial en España, 1830-1990*. Madrid: Cátedra, 1996.

- VV.AA.: *La arquitectura de la industria, 1925-1965*, Registro DOCOMOMO Ibérico. Barcelona, 2005.

Complementary references

- AGUILAR CIVERA, Inmaculada: *Cien elementos del paisaje valenciano. Las obras públicas.* València. Conselleria d'Infraestructures i Transport, 2005.

- AGUILAR CIVERA, Inmaculada: *El orden industrial en la ciudad. Valencia en la segunda mitad del siglo XIX*. València: Diputació de València, 1990.

- AGUILAR CIVERA, Inmaculada: *Historia de las estaciones. Arquitectura ferroviaria en Valencia*. València: Diputació de València, 1984.

- AGUILAR CIVERA, Inmaculada: *La estación de ferrocarril, puerta de la ciudad.* València: Conselleria de Cultura i Educació, 1988.

- ARACIL, Rafael; CERDÁ, Manuel; GARCÍA BONAFÉ, Mario: *Arqueología Industrial en Alcoy.* Alcoi: Ajuntament d'Alcoi, 1980.

- ARROYO SERRANO, Santiago; GIMÉNEZ PRADES, María; SÁNCHEZ MUSTIELES, Diana: *Conservación y restauración del patrimonio industrial*. Madrid: Síntesis, 2018.

- BESÓ ROS, Adrià: "Arroz, naranjas y vino. Una aproximación a los paisajes valencianos de la Revolución

Industrial y a su patrimonio construido". En *IV Seminario internacional sobre patrimonio de la arquitectura y la industria. Paisaje y patrimonio de la industria de la alimentación*. Madrid: UPM, 2017, p. 101-123.

- BESÓ ROS, Adrià: "L'arquitectura del vi". En Inmaculada AGUILAR CIVERA (dir.): *Historia del ferrocarril en las comarcas valencianas. La plana de Utiel-Requena.* València: Conselleria de Infraestructures i Transports, 2008, p. 181-200.

- BESÓ ROS, Adrià: El patrimoni arquitectònic industrial valencià. *Revista Valenciana d'Etnologia*, 3 (2008), p. 43-72.

- CORREDOR-MATHEOS, Josep; MONTANER MARTORELL, Josep Maria. *Arquitectura industrial a Catalunya –Del 1732 al 1929–,* Barcelona: Caixa de Barcelona, 1984.

- DOMÉNECH ALCOVER, Eduardo: "L'arquitectura dels magatzems de taronja". En *La fruta dorada. La industria española del cítrico 1781-1995.* València: Conselleria de Cultura, Educació i Ciència, 1996, p. 89-120.

- GARCÍA PÉREZ, Joel: *Arquitectura industrial en Alcoy. Siglo XIX*. Alacant: Institut de Cultura Juan Gil-Albert, 2001.

- GIRONA RUBIO, Manuel; VILA VICENTE, José: *Arqueología industrial en Sagunto*. València, Institució Alfons el Magnànim, 1991.

- MARTÍN MARTÍNEZ, José: *Urbanismo y arquitectura industrial en el Puerto de Sagunto (1907-1936)*. Sagunt: Caixa dEstalvis de Sagunt, 1991.

- PERIS, Diego (coord.): *Arquitectura para industria en Castilla-La Mancha.* Toledo: Junta de comunidades de Castilla la Mancha, 1995.

- SERRA, Rosa: Colònies tèxtils de Catalunya. Barcelona: Caixa Manresa, 2000.

- VIDAL VIDAL, Vicente Manuel: *Arquitectura e industria. Un ensayo tipológico de los edificios fabriles de L'Alcoià*. València: Conselleria d'Obres Públiques, 1988.

- VVAA: *Dos siglos de industrialización en la Comunitat Valenciana.* València: Colegio Oficial de Ingenieros Superiores Industriales de la Comunidad Valenciana, 2007.

n>