

29986 - History of Technology and Architecture

Información del Plan Docente

Academic Year	2018/19
Subject	29986 - History of Technology and Architecture
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	436 - Bachelor's Degree in Industrial Engineering Technology 440 - Bachelor's Degree in Electronic and Automatic Engineering 434 - Bachelor's Degree in Mechanical Engineering 558 - Bachelor's Degree in Industrial Design and Product Development Engineering 435 - Bachelor's Degree in Chemical Engineering 438 - Bachelor's Degree in Telecommunications Technology and Services Engineering 470 - Bachelor's Degree in Architecture Studies 476 - 430 - Bachelor's Degree in Electrical Engineering 439 - Bachelor's Degree in Informatics Engineering
ECTS	4.0
Year	4
Semester	Half-yearly
Subject Type	Optional
Module	---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

29986 - History of Technology and Architecture

The learning process that is designed for this subject is based on the following:

The proposed methodology seeks to promote retrospection in technological and scientific fields to understand the evolution of materials and energy available, and its application to human progress.

In sessions with the whole group the more theoretical aspects are addressed in the form of master class and are supplemented by discussions on the social impact of technical changes.

The practical sessions provide a view of objects and installations for better understanding.

4.2.Learning tasks

Ongoing activities focus on presentations and debate in the classroom for the whole group. The teacher will present schemes and images in powerpoint to focus on specific topic. Original parts are also presented to illustrate and contextualize the most of it.

4.3.Syllabus

The program offered to the student to achieve the expected results include:

- Introduction: Prehistory. Mesopotamia and Egypt.
- Science and Technology in the Classical World: Greece and Rome.
- The medieval revolution: Tools and energy. The transmission of knowledge. Alchemy.
- Engineers and architects of the Renaissance. Mining and machinery.
- The proto-industrialization and scientific revolution.
- The steam era. The industrial Revolution.
- Energy, transportation and steel. Applications to Chemistry and Construction.
- Technological Development and Communications.
- Industry and architecture in Aragon.

4.4.Course planning and calendar

Schedule sessions and presentation of works

The lectures will be held in the classroom and schedule provided by EINA.

Type 4 (field practice in small groups)

Visits to Museums Theatre Forum and Roman baths.

Visits to churches: St. Paul, St. Philip, St. Charles, St. Engracia.

Views Patio Infanta, Canal Imperial, university auditorium.

Visits to museums and churches will be held Saturdays.

The work will be presented on paper or pdf via email before the deadline indicated by teacher.

4.5. Bibliography and recommended resources