



Universitat de Lleida

DEGREE CURRICULUM

CONSTRUCTION HISTORY

Coordination: FERNANDEZ SERRANO, ALVARO

Academic year 2023-24

Subject's general information

Subject name	CONSTRUCTION HISTORY			
Code	101414			
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Character	Modality
	Bachelor's Degree in Architectural Technology and Building Construction	1	COMPULSORY	Attendance-based
Course number of credits (ECTS)	6			
Type of activity, credits, and groups	Activity type	PRAULA		TEORIA
	Number of credits	3		3
	Number of groups	1		1
Coordination	FERNANDEZ SERRANO, ALVARO			
Department	AGRICULTURAL AND FOREST SCIENCES AND ENGINEERING			
Teaching load distribution between lectures and independent student work	60 h lectures 90 h independent student work			
Important information on data processing	Consult this link for more information.			
Language	Spanish			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
FERNANDEZ SERRANO, ALVARO	alvaro.fernandezserrano@udl.cat	6	Prior appointment to the indicated mail. Campus ETSEA Building 4. Office 2.06.2

Subject's extra information

It's strongly recommended to check regularly the 'campus virtual' and the University's email

Learning objectives

- Knowledge of the architecture throughout the History.
- Find connections between the historical and social context and the buildings.
- Knowledge of the structural typologies used throughout the History.
- Knowledge of building materials used throughout the History.
- Ability to identify styles, typologies and materials in a given building.
- Knowledge of the History of the Architecture in our closer area

Competences

University of Lleida strategic competences

- **UdL3.** Master Information and Communication Technologies.

Degree-transversal competences

- **EPS2.** Capacity to gather and interpret relevant data, within the area of study, to judge and think about relevant subjects of social, scientific and ethical nature.
- **EPS7.** Capacity to work in situations with a lack of information and/or under pressure.
- **EPS8.** Capacity of planning and organizing the personal work.
- **EPS13.** Capacity to consider the socioeconomic context as well as the sustainability criteria in engineering solutions.

Degree-specific competences

- **GEE12.** Manufactured or traditional constructive systems and materials knowledge, its varieties and physics and mechanical characteristics that define them.
- **GEE13.** Capacity to adapt the materials of construction to the typology and use of buildings; manage the reception and the quality control of the materials, its use in the building works, the execution control of the units of work and the performance of tests and final proofs.
- **GEE14.** Knowledge of the historical evolution of the techniques and constructive elements and the structural systems that have given origin to the stylistic forms.
- **GEE15.** Aptitude to identify the elements and constructive systems, define their function and compatibility, and his use in the building process. Pose and solve constructive details.
- **GEE16.** Knowledge of the specific control procedures for the building works.
- **GEE17.** Capacity to give advice on the causes and evidences of the building injuries, to be able to offer solutions to avoid or amend their pathologies, and analyse the life cycle of the elements and constructive systems.
- **GEE18.** Aptitude to take part in the rehabilitation, restoration and conservation of the built heritage.
- **GEE19.** Capacity to develop maintenance plans and handbooks and manage its implementation in the building.
- **GEE20.** Knowledge of the environmental impact evaluation for building and demolition process, of

sustainability in buildings, and of the procedures and techniques to determine the energy efficiency in buildings.

Subject contents

UNITS

1. Construction during Prehistory
2. The architecture in the early civilizations in the Middle East
3. The architecture in Ancient Egypt
4. The architecture in pre-hellenic civilizations and Ancient Greece
5. The architecture in Rome
6. The architecture in Lleida during Ancient History
7. The Paleochristian architecture
8. The Byzantine architecture
9. The Visigoths' architecture in the Iberian Peninsula
10. The Islamic architecture in the Middle East, north of Africa and Iberian Peninsula
11. Romanesque architecture
12. Gothic architecture
13. The Medieval Builders
14. The architecture during Renaissance
15. The architecture of the Baroque
16. Scientific revolution and construction
17. The Neoclassical architecture
18. The beginnings of the construction with steel
19. The Art Nouveau in architecture
20. The historicism in architecture
21. Modern Architecture

Methodology

- Lecture. Professor. Classroom.
- Activities.
 - Visits to significant architectural works in the history of Lleida and surroundings (only if sanitary restrictions allow them).
 - Reading. Papers, website, book's chapter, piece of news o similar reading.
 - Videos, documentary films
 - Discussion about those readings and videos.
 - Case study. Discussion about some building's picture.
 - Photo report.
 - Others.

Development plan

Weeks	Methodology	Contents	Lectures (h)	Independent student work (h)
1-8	Lecture, reading, debat, discussion about readings, case study, pràctical activities, visits	Units 1 - 10	34	42
9	Exam	Units 1 - 10	2	
10-15	Lecture, reading, debat, discussion about readings, case study, pràctical activities, visits	Units 11 - 22	20	28
16	Exam	Units 11 - 22	2	
19	Retrieval exam		2	

Two or three visits to historical buildings of the city (e. g. Old cathedral, new cathedral or Saint Lawrence's church) will be carried out between weeks 10 and 15.

Evaluation

EXAMINATION

- Exam 1: units 1 to 10
- Activity 1: units 1 to 10
- Exam 2: units 11 to 21
- Activity 2: units 11 to 21

EXAMS

- Multiple choice tests.
- On the official dates published on the EPS website.

ACTIVITIES

Each activity has six documents such as videos, papers or book chapters that the students have to read or watch.

There are two options to carry out the activities

1. One final exam for each activity. These exams will be held on the official dates published on the EPS website (Activity 1 with the exam 1 and activity 2 with the exam 2).
 2. A weekly exam for every document included in each activity. Those exams will be carried out every Monday (or Wednesday if Monday is not a working day), starting the second week, according to the calendar that will be provided on the first day of class.
- Those two options are mutually exclusive. Taking one weekly exam prevents from taking the two final exams.
 - The weekly exams will be carried out exclusively on the scheduled dates. Only justified date changes will be accepted (see University's evaluation regulations)

FINAL MARK

- (A) Exam 1: 36 %
- (B) Exam 2: 36 %
- (C) Activity 1: 14 %
- (D) Activity 2: 14 %

Pass criteria (these 3 requirements are mandatory):

1. $0.36 \cdot A + 0.36 \cdot B + 0.14 \cdot C + 0.14 \cdot D \geq 5.0$
2. $A \geq 4.0$
3. $B \geq 4.0$

- Students that fail any of these 3 requirements will do the makeup exam. Those students will have to improve the marks A or B below 4.0.
- Students that reach requirements 2 and 3 but fail requirement 1 will be allowed to choose the mark (A or B) to improve in the makeup exam
- There is not makeup exam for the activities (C and D)

ALTERNATIVE ASSESSMENT

The alternative evaluation will consist of a single exam of the entire syllabus of the subject and the two activities. It will be held on the date established by the EPS for the second exam (31th May). Pass criteria: a minimum mark of 5 is required. In case of failing this examination, there will be a recovery examination on the date set by the center (27th June).

REMARKS

For exams, students are allowed to use written information in their own handwriting, one sheet of paper (DIN

A4). It is not allowed to use any other kind of documentation.

During the exams it is not allowed to use computers, mobile phones, watches or any other kind of device that allows connection to the internet or with other people.

Bibliography

REFERENCES

Castro Villalba A. 1999. *Historia de la construcción arquitectónica*. 2ª ed. Barcelona: Edicions UPC.

Ching, F., Jarzombek, M., & Prakash, V. (2011). *A Global history of architecture*. Hoboken, New Jersey: John Wiley.

Fullana M. 1995. *Diccionari de l'art i dels oficis de la construcció*. Palma de Mallorca: Moll.

Història de Lleida. 2003. 9 vol. Lleida: Pagès editors.

Kostof, S. (1985). *A History of Architecture*. New York; London: Oxford University Press.

Risebero, B. (2011). *The Story of western architecture*. London: Herbert.

FURTHER READING

Arnold, D. 1991. *Building in Egypt: pharaonic stone masonry*. New York: Oxford University Press.

Lawrence, A. W. 1996. *Greek architecture*. London: Yale University Press.

Adam, J. P. 1999 *Roman Building Materials and Techniques*, London: Routledge