



Universitat de Lleida

DEGREE CURRICULUM
CONSTRUCTION HISTORY

Coordination: FERNÁNDEZ SERRANO, ÁLVARO

Academic year 2021-22

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	FERNÁNDEZ SERRANO, ÁLVARO			
Department	AGRICULTURAL AND FOREST 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
FERNÁNDEZ SERRANO, ÁLVARO	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 - 11	34	42
9	Exam	Units 1 - 11	2	
10-15	Lecture, reading, debat, discussion about readings, case study, pràctical activities, visits	Units 12 - 22	20	28
16	Exam	Units 12 - 22	2	
19	Retrieval exam		2	

Visits (only if sanitary restrictions allow them)

- week 12: Sant Llorenç church
- week 13: Museum of Lleida
- week 13: Seu Vella

Evaluation

FINAL MARK

- (A) Exam 1: 30 %
- (B) Exam 2: 30 %
- (C) Activities: 20 %
- (D) Essay about a singular building: 20 %
- Pass criteria (both requirements are mandatory):
 - average mark equal or higher than 5.0 ($0.3 \cdot A + 0.3 \cdot B + 0.2 \cdot C + 0.2 \cdot D \geq 5.0$)
 - marks A, B, C and D equal or higher than 4.0
- Students with a final mark below 5.0 will do the make-up exam. Those students will have to improve the marks (A, B, C or D) below 4.0
- Specific remarks for the make-up exam for Activities (C) and Essay (D)
 - In accordance with the University's evaluation regulations, to offer a make-up exam for Activities (C) and Essay (D) is not mandatory.

- However, those students with marks below 4.0 in any of these parts (C and D) will be allowed to do the make-up exam with this procedure:
 - The higher mark for the Activities (C) and the Essay (D) will be equal to 5.0
 - Activities (C): during the general make-up exam (official make-up exams calendar) they will answer as many practices as it takes to reach a mark equal to 5.0
 - Essay (D): they will present a new version of the essay. The official make-up examen will be the deadline for delivery.

REMARKS

For exams, students are allowed to use written information in their own handwriting, two 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.

Academic essays and exams should be written in a formal style.

The essay about a singular building will be made in groups of two or three students (specific instructions will be given).

The essay will be presented it in a public presentation. Attending these presentations is mandatory for every students. Students failing in doing so will get a mark of 0 (zero) in the essay.

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