Course guide
310711 - 310711 - Architecture, Construction and the City in Western History

Unit in charge: Barcelona School of Building Construction
Teaching unit: 756 - THATC - Department of History and Theory of Architecture and Communication Techniques.
Degree: BACHELOR'S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2019).
Academic year: 2022
ECTS Credits: 4.5
Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: Graus Rovira, Ramon
Others: Graus Rovira, Ramon
Navarro Gonzalez, Ruben
Navas Ferrer, Maria Teresa
Reboredo Raposo, Antonio

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.
2. FE-10 Aptitude to intervene in the refurbishment of buildings and the restoration and preservation of the built heritage.
3. FE-4 Knowledge of the materials and traditional or prefabricated construction systems used in construction, their varieties and physical and mechanical features which define them.

Transversal:
4. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.
5. EFFECTIVE USE OF INFORMATION RESOURCES - Level 1. Identifying information needs. Using collections, premises and services that are available for designing and executing simple searches that are suited to the topic.

TEACHING METHODOLOGY

In theory groups: There will be carried out lectures, always with the active involvement of the students, so that to make easier the learning of the general and basic knowledge handbooks, also for encouraging the students in the study of the history of the architecture, the construction and the city.

In practice groups: There will be expounded the practical works to do, reflecting on the requirements of the contents, either in its expositive, technical or graphic aspects. There also will be expounded, with examples, the range of solutions for the fulfilment of the next written exercises, and in these hours will be done the delivery of the exercise correponding to the evaluation activity A1.

In the autonomous self-learning hours: The students must work the handbooks and prepare the written exercises A1, A2 and A3.

For guarantee the Continuous assessment proposed, the attendance to class is essential. The teacher of each group could establish the control mechanisms of this attendance.
LEARNING OBJECTIVES OF THE SUBJECT

At the end of the course, the students should be able to:

· Determine the basic characteristics of the architecture, the construction and the city in their great historic periods.
· Relate the architecture, the construction and the city with the history and the culture of each time and geography.
· Use specialized and adequate vocabulary.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>31,5</td>
<td>28.00</td>
</tr>
<tr>
<td>Hours small group</td>
<td>13,5</td>
<td>12.00</td>
</tr>
<tr>
<td>Self study</td>
<td>67,5</td>
<td>60.00</td>
</tr>
</tbody>
</table>

Total learning time: 112.5 h
CONTENTS

C1 Antiquity, Middle Ages, XVth-XVIIIth Centuries

Description:
In this content the students work the architecture, building and city in the Western world history, from 1000 BCE till 1789.
- Why do we begin with Greece? Mimesis and tekhné.
- The order. Architecture and construction of the Greek temple.
- City and territory in Antiquity: agora, acropolis and grid plan.
- Imperial Rome: Changes in the use of orders and invention of static space.
- The dynamic space of Early Christian Architecture and the dematerialisation of Byzantine architecture.
- New beginnings: Pre-Romanesque architecture and the art of Islam.
- The international spread of Romanesque forms.
- Light-filled spaces: Gothic in Île-de-France.
- Origin and features of Catalan Gothic.
- Renaissance: Perspective and Antiquity in Florence.
- Renaissance at the service of the Papal Rome.
- The slow arrival of the Renaissance influence in Gothic land.
- Divided Europe: Catholic Baroque and architecture of Protestantism.

In case of COVID restrictions, the teacher will give the lesson on-line. In some conditions the teacher can upload a recording of the lesson.

Specific objectives:
- To locate the most significant buildings in the cultural periodization of the Ancient, Medieval and Modern world.
- To enumerate the basic architecture and construction lexicon of the period.
- To connect the fundamental ideas of the culture at that time with the architectural production.
- To analyze how the construction interacts with the architecture of the period.

Related activities:
There will be done the activities A1, A2, and A3, which correspond to the course project (A1), the written exercise (A2), and the quiz (A3).

Related competencies:
FE-04. FE-4 Knowledge of the materials and traditional or prefabricated construction systems used in construction, their varieties and physical and mechanical features which define them.
FE-06. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.
FE-10. FE-10 Aptitude to intervene in the refurbishment of buildings and the restoration and preservation of the built heritage.

04 COE N2. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.

Full-or-part-time: 56h 15m
Theory classes: 15h 45m
Practical classes: 6h 45m
Self study: 33h 45m
C2 19th & 20th Centuries

Description:
In this content, the students work the architecture, construction and city in the Western world, from mid-eighteenth century until now.
- Industrialisation and city change.
- The Enlightenment: Science, engineering and architecture.
- The impact of new materials on architecture: brick, iron and glass.
- Architecture of the Nineteenth Century: Neoclassicism and Gothic Revival.
- The modern cult of monuments.
- Fin-de-siècle: destabilisation of stylistic codes.
- Chicago, between skyscrapers and Prairie houses.
- Second Industrialisation: City and architecture.
- Modernism in the Weimar Republic.
- Modernism in Europe and the United States of America.
- CIAM proposals: Architecture and the city.
- The reconstruction of Europe and International Style.
- The crises of Modernism.
- Globalisation challenges on architecture: technology and the society of spectacle.

In case of COVID restrictions, the teacher will give the lesson on-line. In some conditions the teacher can upload a recording of the lesson.

Specific objectives:
- To locate the most significant buildings in the cultural periodization of the contemporary world.
- To enumerate the basic architecture and construction lexicon of the period.
- To connect the key ideas of the culture at that time with the architectural production.
- To analyze how the construction interacts with the architecture of the period.

Related activities:
There will be done the activities A1, A2, and A3, which correspond to the course project (A1), the written exercise (A2), and the quiz (A3).

Related competencies:
FE-04. FE-4 Knowledge of the materials and traditional or prefabricated construction systems used in construction, their varieties and physical and mechanical features which define them.
FE-06. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.
FE-10. FE-10 Aptitude to intervene in the refurbishment of buildings and the restoration and preservation of the built heritage.
04 COE N2. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.

Full-or-part-time: 56h 15m
Theory classes: 15h 45m
Practical classes: 6h 45m
Self study: 33h 45m
ACTIVITIES

A1 COURSE PROJECT: BARCELONA ARCHITECTURE GUIDE IN 6 BUILDINGS

Description:
Practical work which the student must do individually or working in pairs and, in some cases, at home. The methodology and the presentation requirements will be exposed on the practice groups. Corrections of the work will be done weekly. In case of COVID restrictions, the corrections of tasks will be done online.

Specific objectives:
At the end of the practice, the students should be able to:
Explain graphically and/or in writing the architectural, structural and urban features of the construction or the corresponding part.

Material:
The students must use the recommended documentation in each case distributed by Atenea.

Delivery:
There will be given according to the specific schedule of each group. This exercise, which will be given back corrected, will integrate in the student's file folder and worths the 25% of the continuous assessment of the course.

Related competencies:
FE-04. FE-4 Knowledge of the materials and traditional or prefabricated construction systems used in construction, their varieties and physical and mechanical features which define them.
FE-06. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.
FE-10. FE-10 Aptitude to intervene in the refurbishment of buildings and the restoration and preservation of the built heritage.

Full-or-part-time: 69h 30m
Practical classes: 13h 30m
Self study: 56h

A2 WRITTEN EXERCISE (IN EACH OF THE 2 MODULES OF CONTENT)

Description:
Individual realization at class of an exercise about the handbook content and a previously defined content more specialised explained at class and present in the bibliography, with personal notes permitted. In case of COVID restrictions, the examen will be done online.

Specific objectives:
Explain critically a manual topic or the detailed topics previously agreed.

Material:
The basic bibliography and eventually the supplementary bibliography for each case.

Delivery:
This exercise, which will be given back corrected, will integrate the student's file folder and worths the 50% of the continuous assessment of the course.

Related competencies:
FE-04. FE-4 Knowledge of the materials and traditional or prefabricated construction systems used in construction, their varieties and physical and mechanical features which define them.
FE-06. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.
FE-10. FE-10 Aptitude to intervene in the refurbishment of buildings and the restoration and preservation of the built heritage.
04 COE N2. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.

Full-or-part-time: 40h
Theory classes: 25h
Self study: 15h
A3 TEST ON THE LECTURES

Description:
Quiz on the lecture. In case of COVID restrictions, the quiz will be done on-line.

Specific objectives:
Improve the technical vocabulary. Match the architectural production to their geographical and historical milieu.

Material:
The basic bibliography and eventually the complementary bibliography.

Delivery:
These test, which will be given back corrected, will integrate the student’s file folder and worths the 25% of the continuous assessment of the course.

Related competencies:
FE-06. FE-6 Knowledge of the historical evolution of the constructive techniques and elements and the structural systems which have led to stylistic forms.

Full-or-part-time: 3h 20m
Theory classes: 3h 20m

GRADING SYSTEM

Continuous assessment has two requirements:
1. Passing grade is 5 out of 10.
2. The student must deliver the project of the course (Guide of Barcelona) following de deadline that will be published at the beginning of the semester.
Scoring for each module: A1 (12,5%), A2 (25%) and A3 (12,5%).
Less than 30% of marked tasks: absent.

Retake examination:
Only for students that fail the course. Minimum grade is 3.5 out of 10.
The previous marks (A1, A2 and A3) are not taken in account. The exam will take 2 hours. The retake examination comprehend the two theory modules.

EXAMINATION RULES.

Each module has evaluable tasks. If it is not done it will mark as 0.

BIBLIOGRAPHY

Basic:

Complementary:
  ISBN 9788483078013.

RESOURCES

Audiovisual material:
- Arquitectures de Barcelona: Mirall urbà, set mirades. https://youtu.be/3Q3CfOHQfe0

Hyperlink:
- Carta Històrica de Barcelona (MUHBA). http://cartahistorica.muhba.cat