310153 - Adaptation Projects and Use Change of Building

**Coordinating unit:** 310 - EPSEB - Barcelona School of Building Construction

**Teaching unit:** 752 - RA - Departamento de Representación Arquitectónica

**Academic year:** 2018

**Degree:** BACHELOR'S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2015). (Teaching unit Optional)
BACHELOR'S DEGREE IN BUILDING CONSTRUCTION SCIENCE AND TECHNOLOGY (Syllabus 2009). (Teaching unit Optional)

**ECTS credits:** 3 **Teaching languages:** Spanish

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### Teaching staff

**Coordinator:** Rafael Marañón González

**Others:** Ferran Cisneros Sorolla

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### Prior skills

Ability for the drawing and graphical representation and knowledge in architecture and construction for the development of projects.

### Requirements

Core subjects of graphical expression.

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### Degree competences to which the subject contributes

**Specific:**

1. FB-3 Ability to apply the systems of spatial representation, the development of the sketch, the proportionality, the language and the techniques of the graphical representation of the constructive elements and processes.

**Transversal:**

2. EFFICIENT ORAL AND WRITTEN COMMUNICATION. Communicating verbally and in writing about learning outcomes, thought-building and decision-making. Taking part in debates about issues related to the own field of specialization.
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Teaching methodology

The subject is developed in three parts: two theoretical parts where is proposed a tour through the most relevant manifestations of the last centuries about the initial historic and stylistic basis, continuing with the following interventions, until the current period of the architecture in all its field and with all its artistic wealth. And also a third part which is practical where there will be developed different space solutions.

Block 1: These topics will be developed during the first 5 school weeks of the four-month term, with the help of the theoretical classes defined in this programme.

Block 2: These topics will be developed during 5 school weeks of the four-month term, with the help of the theoretical classes defined in this programme.

Block 3: These topics will be developed during the last 5 school weeks of the four-month term at the same time than the individual work out of class.

Other resources:
Communication with the faculty by ATENEA and mail. Advertisements and information in the exterior cabinet of the corresponding office.

Audiovisual material:
Presentation of the theoretical classes if necessary, at class with projector and presentations in Power Point or similar.

The communication with the students will also be by means of ATENEA and its inner mail.

Occasionally there will be programmed some architectural visit or conference which the professor considers interesting.

Learning objectives of the subject

THE FINAL OBJECTIVE IS TO GUIDE THE STUDENT TOWARDS THE FINAL DEGREE PROJECT (PFG).

The objectives consist in the development of the abilities of the students to express by traditional graphical techniques specific of other subjects, there will be proposed: intervention projects in determined spaces which consist in its transformation by means of models coming from the architecture, taking as examples various works of architects and inventors of the last two centuries in their corresponding epochs and styles. Emphasizing the sketch and its development as the way to achieve the final project.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 75h</th>
<th>Hours large group: 15h</th>
<th>20.00%</th>
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</thead>
<tbody>
<tr>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>15h</td>
<td>20.00%</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Self study:</td>
<td>45h</td>
<td>60.00%</td>
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</table>
- Treatise of the architecture across the architects and their work

Learning time: 49h
Theory classes: 7h 30m
Practical classes: 12h 30m
Guided activities: 1h
Self study: 28h

Description:
Theoretical Block. Treaty of the architectures through the architects and their work.

In this content the students work:
1. The styles through the architects. Architects:
   - Le Corbusier.
   - Mies Van der Rohe.
   - Frank Lloyd Wright.
   - J. Luis Sert.
   - Bauhaus (Walter Gropius).
   1.1. Classicism (Rafael Moneo, R. Bofill, Aldo Rossi).
   1.2. Postmodernity (Charles Moore, Philip Johnson, James Stirling, Michel Grabes).
   1.3. Japanese Metabolism (Kenzo Tange, Tadao Ando, Kiho Kurokawa).
   1.4. High-Tech (Richard Rogers, Renzo Piano, Norman Foster).
   1.5. Deconstructivism (Frank Gehry).
   1.6. The future (Zaha Hadid, Jean Nouvel, Bruno Zebi, Carlo Scarpa).
2. Different periods through their buildings.
   a. The classical language.
   b. Architecture and communication.
   c. The new vision of the architecture.
3. Elements of the architecture.
   Purpose, technique, space communication, housing, form and utility.
4. Treaty of the interiors through the architecture expressed by an architect.
5. Ephemeral architecture.
7. Limited spaces.
8. Architecture as the creation of the space.
9. Furniture and architecture.

Related activities:
Valuation of the attendance and cooperation at class: 10%.
Activity 1: Individual work of continuous evaluation.
Activity 2: Individual final work.
### -Unit 2 theoretical-practical

**Learning time:** 49h  
Theory classes: 7h 30m  
Practical classes: 12h 30m  
Guided activities: 1h  
Self study: 28h

**Description:**  
In this content the students work:  
1. Development of determined works of meaningful architects, XIX, XX and XXI centuries. Treaties of graphical experience in the development of projects.  
2. Graphical and theoretical knowledge of the projects and the space.  
3. Architectural language through their buildings and forms.

**Related activities:**  
Valuation of the attendance and cooperation at class: 10%.  
Activity 1: Individual work of continuous evaluation.  
Activity 2: Individual final work.

### -Workshop of drawing. Transformation of the space

**Learning time:** 49h  
Theory classes: 7h 30m  
Practical classes: 12h 30m  
Guided activities: 1h  
Self study: 28h

**Description:**  
In this content the students work:  
Transformation of the spaces. The adaptation process to the destined use. Through four projects: Lofts, apartments, unique dwellings, industrial units, recycling: dwellings and offices, small buildings.  
Expression, representation and forms of the materials through the graphic art.

**Related activities:**  
Valuation of the attendance and cooperation at class: 10%.  
Activity 1: Individual work of continuous evaluation: 40%.  
Activity 2: Individual work: 50%.  
ADAPTATION OF ARCHITECTURAL SPACES IN UNIQUE BUILDINGS.  
The most important activity is to guide the student through the fulfillment of a project similar to the PFG which will be presented for the obtaining of the degree.
Planning of activities

<table>
<thead>
<tr>
<th>Individual tests of continuous evaluation (unit 1-2-3)</th>
<th>Hours: 2h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 2h</td>
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</table>

**Description:**
Works about a topic related with the theory.

**Support materials:**
Graphical material which the students decide, notes of the class and bibliography, Internet.

**Descriptions of the assignments due and their relation to the assessment:**
There will be evaluated the different practices over 10 and the total will have a worth of 50% of the final mark.

**Specific objectives:**
At the end of the activity, the students should be able to:
- Determine the most appropriate solutions for the proposed space.
- Decide the most suitable graphical system for the presentation.

<table>
<thead>
<tr>
<th>Individual test of final evaluation</th>
<th>Hours: 1h</th>
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<tr>
<td></td>
<td>Theory classes: 1h</td>
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</table>

**Description:**
There will be done a monographic work of a topic chosen by the student and the professor.

**Support materials:**
DINA3 block, bibliography books, Internet, slides and notes of the classes.

**Descriptions of the assignments due and their relation to the assessment:**
This work will be evaluated at the end of the course over 10 with a worth of 50% of the final mark.

**Specific objectives:**
At the end of the activity, the students should be able to:
- Deduce the architectural systems and styles used in the assigned works.
- Apply the graphical knowledge acquired in the continuous work to express the final work.

Qualification system

Each day of class there will be done an oral exposition about the corresponding topic and there will be developed a graphical exercise at class from the professor guidelines.

There will be proposed and corrected different works for each topic explained at class with a worth in the final mark of 50%.
The attendance to class and the active involvement of the students are valued with a 10%.
There will be delivered a final project with a valuation of 40% of the final mark.
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Regulations for carrying out activities

The delivery of the work done during the course which becomes a final project is compulsory.

... To achieve the final mark, the professor must have corrected personally the work of the student at class. There won't be accepted any work which has not been supervised by the professor.

... The drawing and presentation techniques are totally free with the exception of the paper format which will be in DIN A3 format.

... THE FINAL PART OF THE SUBJECT WILL BE DEVELOPED BY MEANS OF A WORK SIMILAR TO THE PFG DIRECTED TO THE FULLFILMENT OF THE SAME.

Bibliography

Basic:


Complementary:


