310089 - Virtual Representation of the Interior Project

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 BUILDING CONSTRUCTION SCIENCE AND TECHNOLOGY (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2015). (Teaching unit Optional)
ECTS credits: 3
Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: BLANCA FIGUERAS QUESADA
Others: JANINA PUIG COSTA
HECTOR GASCO GARCIA

Prior skills
Knowledge of CAD and graphical expression.

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.
2. FE-1 Ability to understand and make the graphical documentation of a project, to do data gathering, surveying of plans and geometric control of construction units.
3. FE-2 Knowledge of the infographic and cartographic procedures and methods in the construction field.
4. FE-28 Aptitude to write technical projects of constructions, which don’t require architectural projects, as well as projects of demolition and design.
5. FE-33 Exposition and defence, before a university committee, of a final of degree project, consisting in an exercise of assimilation of the educational contents received and the competences acquired.

Transversal:
6. SELF-DIRECTED LEARNING. Detecting gaps in one's knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one's knowledge.
7. 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.
8. TEAMWORK. Being able to work as a team player, either as a member or as a leader. Contributing to projects pragmatically and responsibly, by reaching commitments in accordance to the resources that are available.
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**Teaching methodology**

The student will develop different practices at class depending on the content.

Other resources:
Communication with the faculty by ATENEA and mail. Advertisements and information in the cabinets of the corresponding offices.
Computer material.
The theoretical contents will be uploaded in the intranet of the School (ATENEA), as well as any wording in PDF format. The particular communication with the students will be done by ATENEA and its inner mail.

**Learning objectives of the subject**

At the end of the subject, the students should be able to:
- Achieve a 3d presentation of an interior refurbishment project. Based on the knowldge acquired in the specific subject.
- Know all the graphical tools for the presentation of a project.
- Prepare a competition poster, know the necessary softwares and its graphical possibilities.
- Define graphically the chosen solution.
- Achieve a minimum level of communicational skills to defend orally a work.

**Study load**

<table>
<thead>
<tr>
<th>Total learning time: 75h</th>
<th>Hours large group: 6h</th>
<th>8.00%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 24h</td>
<td>32.00%</td>
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<tr>
<td></td>
<td>Hours small group: 0h</td>
<td>0.00%</td>
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<tr>
<td></td>
<td>Guided activities: 0h</td>
<td>0.00%</td>
</tr>
<tr>
<td></td>
<td>Self study: 45h</td>
<td>60.00%</td>
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### Content

<table>
<thead>
<tr>
<th>(ENG) C1 Bloc 1. Representació espacial 3D</th>
<th>(ENG) C2 Bloc 2. Llenguatges artístics, llenguatges informàtics, els concursos.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Learning time:</strong> 35h</td>
<td><strong>Learning time:</strong> 40h</td>
</tr>
<tr>
<td>Theory classes: 7h</td>
<td>Theory classes: 8h</td>
</tr>
<tr>
<td>Practical classes: 7h</td>
<td>Practical classes: 8h</td>
</tr>
<tr>
<td>Self study: 21h</td>
<td>Self study: 24h</td>
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<table>
<thead>
<tr>
<th><strong>Description:</strong></th>
<th><strong>Description:</strong></th>
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<tbody>
<tr>
<td>In this content the students will become familiar with the practical running of an architecture or engineering office. There will be developed these topics:</td>
<td>In this content the students will become familiar with the practical running of an architecture office. There will be developed these topics:</td>
</tr>
<tr>
<td>Treatment of plans.</td>
<td>Treatment of location plans.</td>
</tr>
<tr>
<td>Project and files management.</td>
<td>Project and files management.</td>
</tr>
<tr>
<td>Digitalization and vectorization of plans.</td>
<td>Digitalization and vectorization of plans.</td>
</tr>
<tr>
<td>Post-production of pictures.</td>
<td>Post-production of pictures.</td>
</tr>
<tr>
<td>Advertising and projection by Internet, making of a BLOG.</td>
<td>Advertising and projection by Internet Making of a Blog.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Related activities:</strong></th>
<th><strong>Related activities:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>There will be done practices individually or in groups of two members which will be delivered by Atenea.</td>
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</tr>
</tbody>
</table>
### Planning of activities

#### (ENG) C1 PROVES INDIVIDUALS D'AVALUACIÓ CONTÍNUA. BLOC 1

| Description: | There will be done particular short exercises to value the graphical knowledge acquired. |
| Support materials: | Weekly theory by Power Point uploaded in ATENEA. Necessary bibliography to consult the topics. Individual corrections at class. |
| Descriptions of the assignments due and their relation to the assessment: | There will be presented a series of short exercises related with the theory and a presentation based on the project done in the subject 2 of the DAC. |
| Specific objectives: | Learn how to present and use with criteria the 3D drawings. Analyze the most important elements to present in a project for its comprehension. To have enough criteria to choose the most significant elements which can be expounded in 3D. |

#### (ENG) C2 PROVES INDIVIDUALS D'AVALUACIÓ CONTÍNUA. BLOC 2

| Description: | Practices of the presentation systems and the virtual and graphical representations. |
| Support materials: | Weekly theory by Power Point uploaded in ATENEA. Necessary bibliography to consult the topics. Individual corrections at class. |
| Descriptions of the assignments due and their relation to the assessment: | The student will make a competition poster with the theme of the chosen project of the subject 2 of the DAC. |
| Specific objectives: | Analyze the most important elements to present in a project for its comprehension. To have enough criteria to choose the most significant elements which can be expounded by a poster. |

#### (ENG) C3 PROVES INDIVIDUALS D'AVALUACIÓ. BLOC 3

| Description: | Realisation of short practical exercises for the better comprehension of the topics. |
| Support materials: | Weekly theory by Power Point uploaded in ATENEA. Necessary bibliography to consult the topics. Individual corrections at class. |
| Descriptions of the assignments due and their relation to the assessment: | There will be evaluated the different practices done during the course with the corresponding value of 0.30, 0.30 and 0.40. |
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**Specific objectives:**
Learn how to summarize an explanation of a project.
Analyze the most important elements to present in a project for its comprehension.
This subject is essential for the next presentations of the PFG and the professional future.

**Qualification system**

Evaluation method:
There will be considered 2 Blocks, each one with a mark value of 10 and doing a total average of the exercises done during the course. There will be 5 or 6 exercises depending on the complexity of the proposed topic.

**Regulations for carrying out activities**

It is an essential condition to do all the activities to access to the final mark.
Bibliography

Basic:


Others resources:

- Decret 259/2003 de 21 d'octubre: requisits mínims d'habitabilitat en els edificis d'habitatges i de la cèdula d'habitabilitat.
- Normativa Urbanística metropolitana: normes urbanístiques Ordenances metropolitanes d'edificació. Ordenança metropolitana de publicitat.
- Ordenança metropolitana de rehabilitació (2001). Barcelona, Mancomunitat de Municipis de l'Àrea Metropolitana de Barcelona
- Ordenança de condicions de protecció contra incendis.(1997). Barcelona: L'Ajuntament
- Ordenança Activitats i establiments de concurrència pública de Barcelona BOP 169 (16-07-2003)
- Ordenança dels usos del paisatge urbà de la ciutat de Barcelona. BOP 146 (19/6/1999)

Webs:
Enllaços web
www.coac.net
www.apabcn.es
www.epseb.upc.edu