310156 - Bim

**Coordinating unit:** 310 - EPSEB - Barcelona School of Building Construction  
**Teaching unit:** 753 - TA - Department of Architectural Technology  
**Academic year:** 2017  
**Degree:** BACHELOR’S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2015). (Teaching unit Optional)  
**ECTS credits:** 3  
**Teaching languages:** Catalan

### Teaching staff

**Coordinator:** Coloma Picó, Eloi  
Roig Segura, Victor  

**Others:** Coloma Picó, Eloi  
Roig Segura, Victor

### Degree competences to which the subject contributes

#### Specific:

FE-17. FE-17 Ability to schedule and organise the constructive processes, the construction teams, the technical and human means for its execution and maintenance.

FE-18. FE-18 Knowledge of the law of the construction and the contractual relations which occur in the different phases of the construction process, as well as the specific legislation, rules and regulations of the prevention and coordination in matters of safety and occupational health in construction.

FE-30. FE-30 Ability of analysis of the execution projects and their transfer to the execution in constructions.

FE-32. FE-32 Knowledge of the professional organisation and the basic procedures in the construction field and the promotion.

#### Transversal:

05 TEQ N1. TEAMWORK - Level 1. Working in a team and making positive contributions once the aims and group and individual responsibilities have been defined. Reaching joint decisions on the strategy to be followed.

05 TEQ N2. TEAMWORK - Level 2. Contributing to the consolidation of a team by planning targets and working efficiently to favor communication, task assignment and cohesion.

06 URI N1. 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.

07 AAT N2. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.

04 COE. 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.

06 URI. EFFECTIVE USE OF INFORMATION RESOURCES. Managing the acquisition, structure, analysis and display of information from the own field of specialization. Taking a critical stance with regard to the results obtained.

07 AAT. 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.

06 URI N2. EFFECTIVE USE OF INFORMATION RESOURCES - Level 2. Designing and executing a good strategy for advanced searches using specialized information resources, once the various parts of an academic document have been identified and bibliographical references provided. Choosing suitable information based on its relevance and quality.

02 SCS N1. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 1. Analyzing the world's situation critically and systemically, while taking an interdisciplinary approach to sustainability and adhering to the principles of sustainable...
human development. Recognizing the social and environmental implications of a particular professional activity.

05 TEQ. 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.

**Learning objectives of the subject**
- Understanding the building process as product life cycle management using object-based models.
- Learn visual information management techniques through virtual Design & Construction Models (VDC).
- Understand collaborative work as a way to integrate and align the objectives of the different actors involved in the life cycle of a building before executing the activities needed to reach them.
- Ability to specify the general characteristics that must have a virtual model depending on its expected use.
- Be able to develop a process map, describing its activities at different levels of depth, establishing the information exchanges needed to implement them and the deliverables obtained.

**Study load**

<table>
<thead>
<tr>
<th>Total learning time: 78h</th>
<th>Hours medium group:</th>
<th>9h</th>
<th>11.54%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours small group:</td>
<td>9h</td>
<td></td>
<td>11.54%</td>
</tr>
<tr>
<td>Self study:</td>
<td>60h</td>
<td></td>
<td>76.92%</td>
</tr>
</tbody>
</table>

**Content**

**BIM**

**Learning time:** 78h
- Practical classes: 9h
- Laboratory classes: 9h
- Self study: 60h

**Description:**

BIM
Bibliography

Basic:


Complementary:

