

Academic Year/course: 2022/23

## 69212 - Buildings simulation in BIM

### Syllabus Information

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**Academic Year:** 2022/23

**Subject:** 69212 - Buildings simulation in BIM

**Faculty / School:** 110 - Escuela de Ingeniería y Arquitectura

**Degree:** 519 - Master's in Architecture

**ECTS:** 3.0

**Year:** 1

**Semester:** First semester

**Subject Type:** Optional

**Module:**

### 1. General information

### 2. Learning goals

### 3. Assessment (1st and 2nd call)

## 4. Methodology, learning tasks, syllabus and resources

### 4.1. Methodological overview

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The learning process is mainly based on the student's own work, supervised and advised by the teacher. Since the student is in the master's degree, he is expected to have a certain level of expertise and initiative enough for autonomous management. However, the teacher monitors the student work during the practical sessions. Moreover, the theory sessions provide the necessary resources to the satisfactory development of the practical work.

### 4.2. Learning tasks

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The sessions will consist of workshop, with theory explanation by the teachers and the students will carry out their own project in BIM.

### 4.3. Syllabus

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In the theory sessions the concepts and the handling of the necessary tools will be explained to carry out the course project.

It is considered important to transmit the fundamentals of the tool and not only its use, in order to understand both its philosophy, its possibilities and its limits. It is about implementing an operational teaching capable of showing the underlying logic in the work methodology and allowing students to discover the transformations that it is capable of generating in the reading, understanding and ideation of reality, avoiding the mere mechanical application of the tool.

### 4.4. Course planning and calendar

A flexible teaching methodology based on active and cooperative learning of students is proposed, through the combination of various didactic models. The theoretical sessions are proposed as participatory lectures that will be developed for all the students and that, as far as possible, will be adapted to their interests. The practice sessions will consist of workshop, in which you will work in the classroom with the support of the teaching staff. Autonomous and supervised work is proposed since in these sessions the teacher will exercise a guiding role, in such a way that he will advise and accompany the student

in the search and development of a path on which to investigate. In this process, the participation of the rest of the students will be encouraged through a critical and purposeful spirit.

There is no theoretical exam. The course project will be delivered on the date assigned for the final evaluation test.

#### **4.5. Bibliography and recommended resources**

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=69212>