Course guides
310738 - 310738 - Health and Safety at Work Coordination

Unit in charge: Barcelona School of Building Construction
Teaching unit: 732 - OE - Department of Management.
Degree: BACHELOR’S DEGREE IN ARCHITECTURAL TECHNOLOGY AND BUILDING CONSTRUCTION (Syllabus 2019). (Compulsory subject).
Academic year: 2021  ECTS Credits: 4.5  Languages: Catalan, Spanish, English

LECTURER
Coordinating lecturer: JESÚS ABAD
Others: JESÚS ABAD, JUAN ANTONIO VIDAL, SANDRA ANGLADA, FÉLIX BALBOA

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. FE-17 Ability to schedule and organise the constructive processes, the construction teams, the technical and human means for its execution and maintenance.
2. 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.
3. FE-19 Aptitude to write studies, basic studies and safety and occupational health plans, and coordinate the safety in the project phase or in the construction execution phase.

Transversal:
4. 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.
5. ENTREPRENEURSHIP AND INNOVATION - Level 2. Taking initiatives that give rise to opportunities and to new products and solutions, doing so with a vision of process implementation and market understanding, and involving others in projects that have to be carried out.

TEACHING METHODOLOGY
Lecture: Lecturers present concepts, principles and techniques, with the active participation of students.
Problem Based Learning: Lecturers and students resolve exercises and standard problems through specific techniques related to the theoretical contents and principles of the course.
Project Based learning: Students resolve complex problems through specific techniques related to the theoretical contents and principles of the course.
Self-study: Students diagnose their learning needs, in collaboration with the lecturers, and plan their own learning process.

LEARNING OBJECTIVES OF THE SUBJECT
The subject expect that the students get the necessary knowledge, so that they will be able to write job security studies and plans and coordinate the activities of the companies in the area of work safety and health in the constructions, both in project and execution phases.
STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>27.0</td>
<td>24.00</td>
</tr>
<tr>
<td>Self study</td>
<td>67.5</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>18.0</td>
<td>16.00</td>
</tr>
</tbody>
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**Total learning time:** 112.5 h

CONTENTS

1.- Basic concepts

**Description:**
- 1.1 Current situation of the construction sector
- 1.2 Work-related injuries
- 1.3 Accidents: principle of multicausality
- 1.4 Principles of preventive action
- 1.5 Risk assessment
- 1.6 Principles of occupational health and safety management

**Related activities:**
Midterm exam. Case study on risk assessments.

**Full-or-part-time:** 30h
- Theory classes: 8h
- Practical classes: 4h
- Self study: 18h

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2.- Coordination of business management

**Description:**
- 2.1 Topologies of the construction sector
- 2.2 Legal framework. Normative
- 2.3 Health and Safety coordination
- 2.4 Fundamental documentation
- 2.5 Health and safety management: company vs site

**Full-or-part-time:** 22h 30m
- Theory classes: 6h
- Practical classes: 3h
- Self study: 13h 30m
3.- Coordination in project stage

**Description:**
3.1 Coordinator functions at the project stage
3.2 Documents to write at the project stage
3.3 ESS. Concept. Content. Application
3.4 EBSS. Concept. Content. Application

**Full-or-part-time:** 7h 30m
Theory classes: 2h
Practical classes: 1h
Self study: 4h 30m

4.- ESS and EBSS. Analysis and contents

**Description:**
4.1 ESS. Descriptive memory
4.2 ESS. Specifications
4.3 ESS. Measurements and budget
4.4 ESS. Blueprints
4.5 EBSS. Descriptive memory
4.6 ESS and EBSS design criteria

**Related activities:**
Midterm exam. Case study on risk assessments.

**Full-or-part-time:** 22h 30m
Theory classes: 6h
Practical classes: 3h
Self study: 13h 30m

5.- Coordination at site execution

**Description:**
5.1 Functions of the coordinator
5.2 The health and safety plan
5.3 Subcontracting during construction
5.4 Documentation in the site execution stage
5.5 Coordination procedures

**Related activities:**
Final exam. Practical case about roles in coordination.

**Full-or-part-time:** 30h
Theory classes: 4h
Practical classes: 8h
Self study: 18h
GRADING SYSTEM

The evaluation of the student’s achievement will be done considering these parameters:

Final Mark = (0.1 X EP) + (0.1 X EP) + (0.35 X EF) + (0.45 X CC)

EP - Partial Exam
EF - Final Exam
CC - Group Task

BIBLIOGRAPHY

Basic:

Complementary:

RESOURCES

Other resources: