



## Course guide

### 240EM021 - 240EM021 - Control, Verification and Audits

Last modified: 02/06/2022

**Unit in charge:** Barcelona East School of Engineering

**Teaching unit:** 702 - CEM - Department of Materials Science and Engineering.

**Degree:** MASTER'S DEGREE IN MATERIALS SCIENCE AND ENGINEERING (Syllabus 2014). (Compulsory subject).

**Academic year:** 2022    **ECTS Credits:** 3.0    **Languages:** Spanish

#### LECTURER

**Coordinating lecturer:** Mateo Garcia, Antonio Manuel

**Others:** Anglada Gomila, Marcos Juan  
Maspoch Ruldua, Maria Lluïsa

#### DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

##### Specific:

CEMCEM-09. (ENG) Dirigir i organitzar empreses, així com sistemes de producció i serveis, aplicant coneixements i capacitats de organització industrial, estratègia comercial, planificació i logística, legislació mercantil i laboral, contabilitat financera i de costos

##### Transversal:

01 EIN N2. 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.

02 SCS N2. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 2. Applying sustainability criteria and professional codes of conduct in the design and assessment of technological solutions.

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.

#### TEACHING METHODOLOGY

Subject in process of extinction. There is no teaching, the students that enroll it do so only with the right to an exam.

#### LEARNING OBJECTIVES OF THE SUBJECT

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#### STUDY LOAD

| Type              | Hours | Percentage |
|-------------------|-------|------------|
| Self study        | 48,0  | 64.00      |
| Hours large group | 18,0  | 24.00      |
| Hours small group | 9,0   | 12.00      |

**Total learning time:** 75 h



## CONTENTS

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### title english

**Description:**

content english

**Full-or-part-time:** 6h

Practical classes: 4h

Laboratory classes: 2h

### NDT

**Description:**

content english

**Full-or-part-time:** 10h

Practical classes: 6h

Laboratory classes: 4h

### title english

**Description:**

content english

**Full-or-part-time:** 9h

Practical classes: 6h

Laboratory classes: 3h

### title english

**Description:**

content english

**Full-or-part-time:** 3h

Practical classes: 3h

## GRADING SYSTEM

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Subject in process of extinction. There is only one final test that corresponds to 100% of the final grade of the subject.

## BIBLIOGRAPHY

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**Basic:**

- Brooks, Charlie R; Choudhury, A. Failure analysis of engineering materials. New York: McGraw-Hill, cop. 2002. ISBN 0071357580.
- ASM handbook. 9th ed. Metals Park, Ohio: American Society for Metals, [1978-1989?]. ISBN 0871700174.