

Course guide

240EM021 - 240EM021 - Control, Verification and Audits

Last modified: 26/06/2025

Unit in charge: Barcelona East School of Engineering
Teaching unit: 702 - CEM - Department of Materials Science and Engineering.

Degree: **Academic year:** 2025 **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

-

STUDY LOAD

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

Total learning time: 75 h

CONTENTS

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

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

BIBLIOGRAPHY

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.