

Course guide

295704 - TEMA - Materials Technology

Last modified: 07/07/2025

Unit in charge: Barcelona East School of Engineering
Teaching unit: 702 - CEM - Department of Materials Science and Engineering.
Degree: BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Compulsory subject).
Academic year: 2025 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: Morales Comas, Miguel

Others: Morales Comas, Miguel
 Santana Perez, Orlando Onofre
 Sorita Lledo, Blas
 Candau, Nicolas
 León Albiter, Noel
 Loaeza Becerril, Alfonso David

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

Type	Hours	Percentage
Hours large group	50,0	33.33
Self study	90,0	60.00
Hours small group	10,0	6.67

Total learning time: 150 h

CONTENTS

Introduction

Description:
 content english

Full-or-part-time: 1h
 Theory classes: 1h



title english

Description:

content english

Full-or-part-time: 16h 10m

Theory classes: 4h 30m

Laboratory classes: 2h

Self study : 9h 40m

Plastic deformation forming

Description:

content english

Full-or-part-time: 38h 50m

Theory classes: 13h 30m

Practical classes: 2h

Self study : 23h 20m

Powder metallurgy

Description:

content english

Full-or-part-time: 12h 30m

Theory classes: 3h

Practical classes: 2h

Self study : 7h 30m

Postprocessing operations

Description:

Heat treatments. Assembly technologies. Machining.

Full-or-part-time: 15h

Theory classes: 6h

Self study : 9h

GRADING SYSTEM