UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

Course guide
295704 - TEMA - Materials Technolgy

Last modified: 28/01/2025

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: 2024   **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

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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