

Course guide 240640 - 240640 - Plans and 3D Printing

Last modified: 16/05/2023

Unit in charge: Teaching unit:	Barcelona School of Industrial Engineering 712 - EM - Department of Mechanical Engineering.	
Degree:	BACHELOR'S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).	
Academic year: 2023	ECTS Credits: 4.5 Languages: Catalan, Spanish	
LECTURER Coordinating lecturer:	Fenollosa Artes, Felip	

Buj Corral, Irene

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

Others:

CE5. Spatial vision capacity and knowledge on graphic representation techniques, both with traditional methods of metrical geometry and descriptive geometry, and by means of computer aided design applications.

CE15. Basic knowledge of industrial production systems.

CETI6. Knowledge applied to manufacturing systems and processes, metrology and quality control.

Fenollosa Artes, Felip

CETI1. Knowledge and capacities to calculate, design and test machines.

Generical:

CG8. PROJECT MANAGEMENT: Being able to present, execute and direct Industrial Engineering projects, by means of applying scientific and technologic knowledge, attitudes and procedures, once conditions have been identified or valued.

Transversal:

05 TEQ. TEAMWORK. Being able to work as a team player, either as a member or as a leader. Contributing to projects pragmatically and responsibly, by reaching commitments in accordance to the resources that are available.

07 AAT. SELF-DIRECTED LEARNING. Detecting gaps in one's knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one's knowledge.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

Туре	Hours	Percentage
Hours small group	15,0	13.33
Hours medium group	30,0	26.67
Self study	67,5	60.00

Total learning time: 112.5 h



CONTENTS

title english

Description: content english

Full-or-part-time: 26h 15m Theory classes: 10h 30m Self study : 15h 45m

title english

Description: content english

Full-or-part-time: 7h 30m Theory classes: 3h Self study : 4h 30m

title english

Description: content english

Full-or-part-time: 18h 45m Theory classes: 7h 30m Self study : 11h 15m

title english

Description: content english

Full-or-part-time: 7h 30m Theory classes: 3h Self study : 4h 30m

title english

Description: content english

Full-or-part-time: 26h 15m Theory classes: 10h 30m Guided activities: 15h 45m



title english

Description: content english

Full-or-part-time: 26h 15m Theory classes: 10h 30m Self study : 15h 45m

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Gómez González, Sergio. Impresión 3D. Barcelona: Marcombo, 2016. ISBN 9788426723536.

- Chevalier, A. Dibujo Industrial. México: LIMUSA, 1992. ISBN 9789681839482.

Complementary:

- Hernández Abad, Francisco. Ingenieria Gráfica : Introducción a la normalización. Terrassa: Departament d'Expressió Gràfica UPC, 2008. ISBN 8460946592.

RESOURCES

Audiovisual material:

- Nom recurs. Resource