



Course guide

210103 - FS I - Physics I

Last modified: 15/07/2024

Unit in charge: Barcelona School of Architecture
Teaching unit: 748 - FIS - Department of Physics.

Degree: DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Compulsory subject).

Academic year: 2024 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: RAMON TORRES HERRERA

Others: Primer quadrimestre:
GIULIA DE ROSI - M2, T2
JUAN ENCISO PIZARRO - T2
MARIA DOLORS MARTINEZ SANTAFE - M4
ARISLEIDY MESA ALCANTARA - M1, M3
ANTONIO MUÑOZ DUQUE - T1
JELENA NIKOLIC ZLATKOVIC - M3
DAVID ORIOLA SANTANDREU - M1
MARIA LUISA PEREA IBÁÑEZ - M2, M4, T1
RAMON TORRES HERRERA - M1, M2, M3, M4, T1

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

EAB7. Translation from Spanish slope
EAB8. Translation from Spanish slope
EAB9. Translation from Spanish slope

Generical:

CG4. Translation from Spanish slope
CG5. Translation from Spanish slope

Transversal:

CT2. Translation from Spanish slope
CT3. Translation from Spanish slope
CT4. Translation from Spanish slope
CT5. Translation from Spanish slope
CT6. Translation from Spanish slope
CT7. Translation from Spanish slope

Basic:

CB1. Translation from Spanish slope
CB2. Translation from Spanish slope
CB3. Translation from Spanish slope
CB4. Translation from Spanish slope
CB5. Translation from Spanish slope

TEACHING METHODOLOGY

Go to catalan or spanish version.



LEARNING OBJECTIVES OF THE SUBJECT

Go to catalan or spanish version.

STUDY LOAD

Type	Hours	Percentage
Guided activities	12,0	8.00
Self study	84,0	56.00
Hours large group	27,0	18.00
Hours medium group	27,0	18.00

Total learning time: 150 h

CONTENTS

Go to catalan or spanish version.

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GRADING SYSTEM

Go to catalan or spanish version.

BIBLIOGRAPHY

Basic:

- Fayos, F. Torres, R. Física aplicada al càlcul estructural arquitectònic [on line]. P. Barcelona: Universitat Politècnica de Catalunya, 2017 [Consultation: 30/09/2020]. Available on: <http://hdl.handle.net/2117/102789>. ISBN 9788498806397.
- Beer, Ferdinand Pierre; Johnston, E.Russell; Eisenberg, Elliot R.. Mecánica vectorial para ingenieros: Estática [on line]. 11a ed. Madrid: McGraw-Hill, 2017 [Consultation: 12/05/2020]. Available on: http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=8077 (Accés restringit als usuaris de la UPC). ISBN 9781456269173.
- Beer, Ferdinand Pierre; Johnston, E. Russell; DeWolf John T.. Mechanics of materials. New York: McGraw-Hill Higher Education, 2006. ISBN 0071249990.
- Obiol, Agustí; Morales, Juan Manuel; López, Francesc. Apuntes para un curso básico de estructuras: curso 2005. Barcelona: ETSAB, 2006.

Complementary:

- Collieu, Antony M.; Powney, Derek J. Propiedades mecánicas y térmicas de los materiales. Barcelona: Reverté, 1977. ISBN 9788429141429.
- Navés, Francesc; Llorens, Miquel. Càlcul d'estructures [on line]. Barcelona: Edicions UPC, 1995 [Consultation: 30/09/2014]. Available on: <http://hdl.handle.net/2099.3/36691>.
- Sastre, Ramon. Propietats dels materials i elements de construcció [on line]. Barcelona: Edicions UPC, 2000 [Consultation: 06/09/2015]. Available on: <http://hdl.handle.net/2099.3/36307>. ISBN 848301422X.



RESOURCES

Hyperlink:

- <http://www.mviv.es/es/pdf/cte/DB%20SE%20abril%202009.pdf>. Codi tècnic de l'edificació. Documents bàsics SE (Seguridad estructural, abril 2009)

Other resources:

The materials and documents of the subject may be written indistinctly in any languages of instruction.