



Course guide

210108 - FS II - Physics II

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: DAVID ORIOLA SANTANDREU

Others: Segon quadrimestre:
GIULIA DE ROSI - T1, T2
JUAN ENCISO PIZARRO - T1
MARIA DOLORS MARTINEZ SANTAFE - M2
ARISLEIDY MESA ALCANTARA - M1, T1
ANTONIO MUÑOZ DUQUE - T2
JELENA NIKOLIC ZLATKOVIC - M4
DAVID ORIOLA SANTANDREU - M1, M2, M3, M4, T1, T2
AGNES PEREZ MILLAN - M1, M4
RAMON TORRES HERRERA - M2, M3
JOAQUIM TRULLAS SIMO - M3

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

EAB8. Translation from Spanish slope
EAB9. Translation from Spanish slope
EAB7. 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
Hours large group	27,0	18.00
Guided activities	12,0	8.00
Self study	84,0	56.00
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:

- Collieau, Antony M; Powney, Derek J. Propiedades mecánicas y térmicas de materiales. Barcelona: Reverté, 1977. ISBN 8429141421.
- Egan, M. David. Architectural acoustics. New York: McGraw-Hill, 1988. ISBN 0070191115.
- Egan, M. David. Architectural lighting. 2nd ed. New York: McGraw-Hill, 2002. ISBN 0070205876.
- Incropera, Frank Paul; DeWitt, David P. Fundamentos de transferencia de calor. 4ª ed. México D.F: Prentice Hall, 1999. ISBN 9701701704.
- Tipler, Paul A.; Mosca, Gene. Física para la ciencia y la tecnología. 6ª ed. Barcelona: Reverté, 2010. ISBN 978-8429144284.
- Bravo Guil, Eduardo. Física ambiental [on line]. Primera. Barcelona: Iniciativa Digital Politècnica. Oficina de Publicacions Acadèmiques Digitals de la UPC, 2019 [Consultation: 02/09/2020]. Available on: <https://upcommons.upc.edu/handle/2117/167142>. ISBN 9788498807646.

Complementary:

- Faraoni, Valerio. Exercises in environmental physics. New York: Springer, 2006. ISBN 978-0387339122.
- Gonzalo, Guillermo Enrique. Manual de arquitectura bioclimática. Tucumán: Nobuko, 2004. ISBN 9871135076.
- Mulder, Karel. Desarrollo sostenible para ingenieros [on line]. Barcelona: Edicions UPC, 2007 [Consultation: 07/05/2015]. Available



on: <http://hdl.handle.net/2099.3/36831>. ISBN 978-8483018927.

- Pritchard, David C. Lighting. 6th ed. Harlow, PA: Pearson Longman, 1999. ISBN 0582357993.

- Sastre, Ramon. Propietats dels materials i elements de construcció [on line]. Barcelona: Edicions UPC, 2000 [Consultation: 06/07/2011]. Available on: <http://hdl.handle.net/2099.3/36307>. ISBN 848301422X.

RESOURCES

Hyperlink:

- <http://www.fomento.gob.es/NR/rdonlyres/04811CC4-8F53-4D3F-892C-F3D77E5189E0/95703/3.pdf>. Codi tècnic de l'edificació. Documents bàsics HE (Estalvi d'energia, abril 2009), HR (Protecció contra el soroll, setembre 2009)

Other resources:

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