



Course guide

210130 - EST III - Structures III

Last modified: 14/12/2023

Unit in charge:	Barcelona School of Architecture
Teaching unit:	753 - TA - Department of Architectural Technology.
Degree:	DEGREE IN ARCHITECTURE STUDIES (Syllabus 2014). (Compulsory subject).
Academic year: 2023 ECTS Credits: 6.0 Languages: Catalan, Spanish	

LECTURER

Coordinating lecturer: LUIS MOYA FERRER - CARLOS MUÑOZ BLANC

Others:
Primer quadrimestre:
LAIA MARÍN SELLARÉS - Grup: 1SM1
LUIS MOYA FERRER - Grup: 1SM1
CARLOS MUÑOZ BLANC - Grup: 1SM1

Segon quadrimestre:
LAIA MARÍN SELLARÉS - Grup: 2SM2
LUIS MOYA FERRER - Grup: 2SM2, Grup: 2ST2
CARLOS MUÑOZ BLANC - Grup: 2ST2
JORGE URBANO SALIDO - Grup: 2SM2, Grup: 2ST2

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

- EP11. Translation from Spanish slope
- EP14. Translation from Spanish slope
- ET13. Translation from Spanish slope
- ET14. Translation from Spanish slope
- ET2. Translation from Spanish slope
- ET11. Translation from Spanish slope
- ET3. Translation from Spanish slope
- ET12. Translation from Spanish slope
- ET6. Translation from Spanish slope
- ET19. Translation from Spanish slope
- ET9. Translation from Spanish slope
- EP15. Translation from Spanish slope
- EP16. Translation from Spanish slope
- EP18. Translation from Spanish slope
- EP19. Translation from Spanish slope
- EP2. Translation from Spanish slope
- EP20. Translation from Spanish slope
- EP21. Translation from Spanish slope
- EP22. Translation from Spanish slope
- EP24. Translation from Spanish slope
- EP3. Translation from Spanish slope



General:

- CG4. Translation from Spanish slope
- CG5. Translation from Spanish slope
- CG7. Translation from Spanish slope
- CG2. 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
- CT1. 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 medium group	22,0	14.67
Hours large group	32,0	21.33
Guided activities	12,0	8.00
Self study	84,0	56.00

Total learning time: 150 h

CONTENTS

Go to catalan or spanish version.

Description:

Go to spanish or catalan version

Full-or-part-time: 150h

Theory classes: 26h 20m

Practical classes: 26h 20m

Guided activities: 13h 20m

Self study : 84h



GRADING SYSTEM

Go to catalan or spanish version.

BIBLIOGRAPHY

Basic:

- Gere, James M. Resistencia de materiales. Madrid: International Thomson Editores, 2002. ISBN 9788497320658.
 - Torroja Millet, Eduardo. Razón y ser de los tipos estructurales. Madrid: Consejo Superior de Investigaciones Científicas, 2007. ISBN 9788400086121.
 - ARGUELLES ALVAREZ, Ramón. Cálculo de Estructuras. BELLISCO, 2015. ISBN 9788492970803.
 - Chopra, Anil. Dynamics of Structures: Theory and Applications to Earthquake Engineering [on line]. 4th ed. N.J: Prentice Hall, 2012
- [Consultation: 15/06/2023]. Available on: <https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=5811586>. ISBN 9780132858038.

Complementary:

- MARGARIT, Joan, BUXADE, Carles. Cálculo de estructuras con pórticos y pantallas. Barcelona: Blume, 1977.
- Clough, Ray; Penzien, Joseph. Dynamics of Structures. 2nd ed. (rev.). Berkeley: Computers and Structures, 2003. ISBN 0923907505.
- BARBAT, Alex. Cálculo sísmico de estructuras. Barcelona: Editores Técnicos Asociados, 1982. ISBN 8471462370.
- Oñate, Eugenio. Cálculo de estructuras por el método de los elementos finitos. Análisis estático-lineal. Barcelona: Cimne, 1995. ISBN 8487867006.

RESOURCES

Other resources:

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