

Course guide

210754 - TSCI - Industrialised Building Systems and Technologies

Last modified: 16/07/2024

Unit in charge: Barcelona School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.
Degree: MASTER'S DEGREE IN ADVANCED STUDIES IN ARCHITECTURE-BARCELONA (Syllabus 2015). (Optional subject).
Academic year: 2024 **ECTS Credits:** 5.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: MARIA DEL PILAR GIRALDO FORERO
Others: Primer quadrimestre:
MARIA DEL PILAR GIRALDO FORERO - ITA1

TEACHING METHODOLOGY

Go to Spanish or Catalan version.

LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Self study	87,5	70.00
Hours large group	37,5	30.00

Total learning time: 125 h

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title english

Description:

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Specific objectives:

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Full-or-part-time: 125h

Theory classes: 15h

Laboratory classes: 30h

Self study : 80h



GRADING SYSTEM

Go to Spanish or Catalan version.

BIBLIOGRAPHY

Basic:

- Meuser, Philip. Construction and Design Manual. Prefabricated Housing. Volume 2: Buildings and Typologies.. Berlin. Germany: DOM Publishers, 2018. ISBN 9783869224275 (2 VOL.).
- New perspective in industrialisation in construction: a state-of-the-art report. Zurich: ETH, 2009.
- Knaack, U.; Chung-Klatte, S.; Hasselbach, R. Prefabricated systems: principles of construction [on line]. Basel: Birkhäuser, 2012 [Consultation: 12/05/2020]. Available on: <https://doi.org/10.1515/9783034611404>. ISBN 9783764387471.
- Staib, G.; Dörrhöfer, A.; Rosenthal, M. Components and systems: modular construction. Basel; Boston: Birkhäuser, 2008. ISBN 9783764386566.
- Albus, Jutta. Prefabricated housing : construction and design manual. Berlin. Germany: DOM Publishers, 2018. ISBN 9783869224275.

Complementary:

- Recomendaciones para el proyecto, ejecución y montaje de elementos prefabricados. Madrid: Colegio de Ingenieros de Caminos Canales y Puertos, 2004. ISBN 8438002730.
- The building systems integration handbook. Boston: The American Institute of Architects, Butterworth Architecture, 1986. ISBN 0750691980.
- Russell, B. Building systems industrialization and architecture. London, New York: John Wiley & Sons, 1981. ISBN 0471279528.
- Smith, R.E.. Prefab architecture: a guide to modular design and construction. Hoboken, N.J: John Wiley & Sons, 2010. ISBN 9780470275610.
- Edificación con prefabricados de hormigón. Madrid: Instituto Español del Cemento y sus Aplicaciones (IECA): Asociación Nacional de Prefabricados y Derivados del Cemento (ANDECE), 1996. ISBN 8489702020.