Course guide
210754 - TSCI - Industrialised Building Systems and Technologies

Last modified: 14/12/2023

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: 2023 **ECTS Credits:** 5.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: MARIA DEL PILAR GIRALDO FORERO

Others: Primer quadrimestre:
MARIA DEL PILAR GIRALDO FORERO - Grup: ITA1

TEACHING METHODOLOGY

Go to Spanish or Catalan version.

LEARNING OBJECTIVES OF THE SUBJECT

Go to Spanish or Catalan version.

STUDY LOAD

Type	Hours	Percentage
Hours large group	15,0	12.00
Hours small group	30,0	24.00
Self study	80,0	64.00

Total learning time: 125 h

CONTENTS

title english

Description:
Go to Spanish or Catalan version.

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:
- Albus, Jutta. Prefabricated housing : construction and design manual. Berlin. Germany: DOM Publishers, 2018. ISBN 9783869224275.
- 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.
- 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.

Complementary:
- 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.
- Recomendaciones para el proyecto, ejecución y montaje de elementos prefabricados. Madrid: Colegio de Ingenieros de Caminos Canales y Puertos, 2004. ISBN 8438002730.
- Russell, B. Building systems industrialization and architecture. London, New York: John Wiley & Sons, 1981. ISBN 0471279528.
- The building systems integration handbook. Boston: The American Institute of Architects, Butterworth Architecture, 1986. ISBN 0750691980.
- Smith, R.E.. Prefab architecture: a guide to modular design and construction. Hoboken, N.J: John Wiley & Sons, 2010. ISBN 9780470275610.