

Global Learning Semesters

Course Syllabus

Course: DES-313 Building Component Design and Detailing II

Department: Design

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
DES-313	Building Component Design and Detailing II	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	DES-312
Department	Level of Course	Language of Instruction
Design	Upper Division	English

Course Description

The aim of the course is to provide an advance understanding of building component design and detailing such as floors, walls, ceilings, roofs, doors and windows, columns, beams, stairs, lighting, etc. Assembly and detailing of these components will be presented and investigated, through building case studies. Primary consideration will be given to the aesthetic, functional, craft, and economic aspects of these elements. In addition to lectures and presentations by guest speakers, there will be site visits to interesting buildings in the immediate vicinity. Class work will involve discussions and presentations along with making of components and details with real materials.

Prerequisites

DES-312

Topic Areas

1. Aesthetics
2. Craft into construction
3. Building economics
4. Systems and materials
5. Construction techniques
6. Construction management
7. Detailing and ornamentation
8. Art of making

Readings and Resources

Recommended Reading

1. Allen, Edward, Fundamentals of Residential Construction, New York, J. Wiley, c2002.
2. Bennett, David, Exploring Concrete Architecture: Tone, Texture, Form, Berlin, Ger., Birkhaeuser, 2001.
3. Binggeli, Corky, Building Systems for Interior Designers, Hoboken, NJ, J. Wiley & Sons, c2003.
4. Burkhard Frohlich, editor, Concrete Architecture: Design and Construction, Basel, Birkhauser, 2002.
5. Ching, Francis D.K., Building Construction Illustrated, Van Nostrand Reinhold, 1975.
6. Habermann, Karl, Staircases: Design and Construction, Basel, Birkhauser, 2003.
7. Kind-Barkauskas, Friedbert, Concrete Construction Manual, Basel, Birkhauser, 2002.

8. Neufert, Ernst. Architect's Data (Neufert, 3rd ed.), Berlin, Ger., Blackwell, 2000.
9. Nijse, Rob, Glass in Structures: Elements, Concepts, Designs, Basel, Boston: Birkhauser-Publishers for Architecture, 2003.
10. Topos, Stucco, stone and steel: new materials in open space design, Berlin, Ger., Birkhaeuser, 2001.
11. Weston, Richard, Materials, form, and architecture, New Haven, Conn., Yale University Press, 2003.
12. Wigginton, Michael, Glass in architecture, New York, NY, Phaidon Press Ltd., 1996.