

Global Learning Semesters

Course Syllabus

Course: DES-311 Intro to Building Technology

Department: Design

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
DES-311	Intro to Building Technology	3
Semester Offered	Contact Hours	Prerequisites
Fall	42	DES-276
Department	Level of Course	Language of Instruction
Design	Upper Division	English

Course Description

Building Materials

- Structures: Beams, Columns and Frames
Floor and Roof Systems
Walls
- Building systems: High Rise buildings
Space structures
Membrane structures
Properties of surfaces
- Building Physics: Internal environment
Heat transfer
Climate
Lighting
Colour
Sound
Room acoustics

Instructor

Kyriakos Pontikis

Course Aims and Objectives

The course is an introduction to the construction and structural principles necessary for the actualisation of a design. These principles help to shape the design of interior spaces and many of the objects that enrich them. Technical and functional aspects of construction are explained. The course introduces students to integrated building systems exploring the interrelationships of construction technology, structures and environmental control systems as they relate to building design.

Teaching Methods

The course is delivered through a mixture of lectures, studio presentations, studio tutorials and practical exercises and assignments.

Course Teaching Hours

42 hours. The course is delivered during the fall semester in 14-weeks (3 hours/week).

Evaluation and Grading

Homework: 20%
Mid-Term: 30%
Final Exam: 50%

Readings and Resources

Required Textbook

There is no required textbook for this course

Recommended Reading

- Ballart, D (1994), Interior Construction and detailing for designers and architects, Professional Publications, Belmont CA
- Alan, I (2000) Structure as design, Rockport Publishers,