University of Nicosia, Cyprus

Course Code	**Course Title**	**ECTS Credits**
ARCH-112	Construction Materials and Finishes	4
Department	**Semester**	**Prerequisites**
Architecture	Spring	None
Type of Course	**Field**	**Language of Instruction**
Required	Architecture	English
Level of Course	**Year of Study**	**Lecturer(s)**
1st cycle	1st	Adonis Cleanthous
Mode of Delivery	**Work Placement**	**Co-requisites**
face-to-face	N/A	none

Objectives of the Course:

- Develop student's ability to integrate construction technology into building construction.
- Develop student's ability to 'read' and understand technical drawings and specification documents.
- Develop student's ability to communicate effectively through technical drawing detailing.
- Develop student's ability to survey through measuring/drawing/rendering/specifying.
- Develop student's ability to assess environmental issues related to building performance.
- To inform students about the range of materials available, their structural and aesthetic qualities, their use for both traditional and modern applications and their use in different constructional/structural models
- To inspire students to engage in experimental/ alternative use of materials through a solid understanding of the basic/ traditional applications
- To engage students in on-site construction-site observations through specific visits to building sites during different phases of construction, and of different building projects evidencing a range of building-construction methods.
- To introduce students to the fundamentals of construction detail-drawing as a tool for studying and devising construction applications.

Learning Outcomes:

After completion of the course students are expected to be able to:

- Plan the exploration of building through the study of structure, construction, materials, the techniques of environmental design, and their integration into building designs.
- Utilize, understand, and communicate technical drawings and specification documents.
- Assess materials, their qualities and assembly processes
- Communicate knowledge of Construction systems, materials/processes, environmental impact, health and safety.

Course Contents:

- Site visits to ongoing construction sites and completed buildings. Surveying, measuring, observing, on-site tutoring
- Case-study of construction detailing/assembly/methods/materials/concepts, from selected published projects
- In-class laboratory experiments with mixing/casting concrete, and drawing/model details.
- Lectures and Readings

Learning Activities and Teaching Methods:

Lectures, Site visits, Lab Presentations, Lab Tutorials, Drawing and modelling Assignments.

Assessment Methods:

In-class student presentation, Presentation of lab-work/drawing/model details, Mid-term exam, and final exam.

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Francis D. K. Ching and Cassandra Adams	Building Construction Illustrated	John Wiley	2001	0-471-35898-3

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Andrea Deplazes	Constructing Architecture, Materials Processes Structures	Birkhauser	2005	10:3-7643-7189-7