



UNIVERSITY OF NICOSIA ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

University of Nicosia, Cyprus

Course Code ARCH-322	Course Title Building Services	ECTS Credits 4
Department Architecture	Semester spring	Prerequisites Arch 112
Type of Course Required	Field Architecture	Language of Instruction English
Level of Course 1 st cycle	Year of Study 3rd	Lecturer(s) Adonis Kleanthous
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites none

Objectives of the Course:

- To explore the full range of interior construction components related to building services, including environmental control systems (heating and ventilation), electrical installations, plumbing and drainage.
- To present construction details and materials in relation to building services emphasizing their structural as well as their aesthetic properties.
- To teach students the required skills in order to produce working drawings and details
- Develop student's ability to integrate building technology into building design.
- Develop student's ability to 'read' and understand technical drawings and specification documents.
- Develop student's ability to assess environmental issues related to building performance.

Learning Outcomes:

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

- Utilize building technology, through the study of sustainable systems, HVAC, plumbing, and electrical
- Apply, 'read', understand, and communicate technical drawings and specification documents.
- Employ materials, and their qualities and assembly processes
- Apply knowledge of all essential building installations, and most recent technologies

Course Contents:

- Site visits to ongoing construction sites and completed buildings. Surveying, measuring, observing, on-site tutoring
- Case-study of building technology. Systems/methods/performance/energy conservation/concepts, from selected published projects
- In-class laboratory experiments with mechanical accessory components and their integration into building-design.
- Lectures and Readings

Learning Activities and Teaching Methods:

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

Assessment Methods:

3 Documenting assignments. One on HVAC systems and elevators, one on plumbing and electrical, and one on sustainable systems, In-class student presentation, Presentation of lab-work/drawing/model details, Mid-term exam, final exam

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Klaus Daniels	Advanced Building Systems	Birkhauser	2003	3-7643-6723-7

Recommended Textbooks/Reading:

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

