



UNIVERSITY OF NICOSIA

ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

University of Nicosia, Cyprus

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| Course Code INT-311 | Course Title Building Services | ECTS Credits 4 |
| Department Architecture | Semester Spring | Prerequisites INT-222 |
| Type of Course Required | Field Interior Design | Language of Instruction English |
| Level of Course 1 st Cycle | Year of Study 3rd | Lecturer Papaleondiou Costas |
| Mode of Delivery Face- to- face | Work Placement N/A | Co-requisites INT-301/INT-361 |

Objectives of the Course:

The main objectives of the course are to:

- 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 communicate effectively through technical drawing detailing.
- Develop student's ability to survey through measuring/drawing/rendering/specifying.
- Develop students understanding of the comfort and perception aspects of technical systems (HVAC, lighting, AV, sanitary equipment etc.) and the selection and application thereof.

Learning Outcomes:

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

- Create and explore building technology, through the study of sustainable systems, HVAC, plumbing, and electrical.
- Prepare, understand, and communicate technical drawings and specification documents.
- Utilize of materials, and their qualities and assembly processes
- Demonstrate 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 system. In-class student presentation. Presentation of lab-work/drawing/model details. Mid-term exam, and final exam.

Required Textbooks and 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 |
| Brooker&Stone | Context and Environment | Academia | 2008 | 2-940373-71-x |
| Lynne E. Adams C. | Aldernative Construction –Contemporary Natural Building Methods | Wiley | 2005 | |