University of Nicosia, Cyprus
ARCH-522 Advanced Integrated Systems

Course Code	**Course Title**	**Credits (ECTS)**
ARCH-522	Advanced Integrated Systems	10
Department	**Semester**	**Prerequisites**
Architecture	spring	none
Type of Course	**Field**	**Language of Instruction**
Required for concentration: sustainable architecture	MA in Architecture	English
Level of Course	**Year of Study** in sustainable Architecture	**Lecturer**
2nd cycle	1st	Adonis Cleanthous
Mode of Delivery	**Work Placement**	**Co-requisites**
face-to-face	N/A	None

Objectives of the Course:

- To present definitions of integrated approaches to the conception and design advanced of the build environment.
- To instill students awareness of the history and theory of systems in architecture.
- To present core princples of integrative approaches to systems.
- To develop students ability to critically assess theoretical positions and practical on / of systems. To teach students the required skills of analysing and critiquing case – studies.
- To develop students ability to critically assess integrated systems relating to building performance and issues of sustainability.

Learning Outcomes:

- Knowledge of historic and contemporary theories suprounding the subject of systems for the build environment.
- Ability to understand, analyse, and critique case studies, through text and diagrams
- The exploration of building technology through the study of sustainable strategies.
- The ability to identify, recognise and integrate systems of construction, and passive and active elements such us hvac, plumbing and electrical
- Knowledge if essential building installations and their interactive installation through sustainable strategies.
- The ability to develop an advanced and highly personalised attitude towards systems integration.

Course Contents:

- Lectures and presentations.
- Round – table discussions on selected readings.
- Reading and writing.
- Case studies on systems / methods / performance / consepts, from selected published projects.

Learning activities and Teaching Methods:

- Lectures
- Presentations
- Theoretical analysis.
- Analysis through diagrammatic drawing.
- Group discussions.
- Reading and writing.

Assessment Methods:

- Individual presentations in round table group discussions.
- Weekly submission of short papers on readings
- Weekly submission of diagrammatic analyses relevant to short paper on readings
- End – of – semester submission of weekly accumulated work, re worked into a cohesive booklet of pulishable quality.

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Reyner Banham	The architecture of the well – tempered environment.	The university of Chicago press	1969, 1984	0- 226- 03698-7
William. W. Braham and Jonathan A. Hale, Editors.	Rethinking technology a reader in architectural theory.	Routledge	2007	04155346541
Mary Banham, Sutherland Luall Cedric price	A critic writes	University of California Press	1999	0.520.21944.9
Gyula Sebestyen	New architecture and technology	Architectural Press	2003	0.7506.5164.4