



**Philadelphia University
Faculty of Engineering
Department of Architecture
First semester, 2008/2009**

Course Syllabus

Course Title: Architectural Design III	Course code: 6600222
Course Level: Second	Course prerequisite (s) and/or corequisite (s): 660124
Lecture Time: 6	Credit hours: 4

Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Ayman Tomah	Associated Professor	6407	12-1 Mon- Wed	aymantomah@hotmail.com

Course module description:

The main purpose of this course is to develop the student's acquire visualization and technical skills as regards the quantitative and functional aspects of design problems and evolving solutions based on the aesthetic and expressive values. This involves the study of the perceptual and spatial characteristics of geometric solids and volumes, with a view to utilizing these various modifications to suite basic architectural spatial solutions. The activity, moreover, involves a study of concepts pertaining to the requirements of the design process and its ultimate output.

Course module objectives:

- Enhance the student's ability to program the requirements, functions and applications.
- Making the student more capable of turning out relevant architectural solutions.

Course/ module components

During the course the student will develop the follow phases:

- site analysis
- case study
- program & bubble diagram
- matrix & zoning
- creation of a concept

to be able to present at the end of the course a personal architectural project.

- **Books (title , author (s), publisher, year of publication)**

There is no specific publication can cover the course syllabus, students will be given a list of reading books, articles and web sites (as seen at the end of the course syllabus).

- **Support material:**

slide show, CD's, data show DVD's, site visits

- **Homework and laboratory guide :**

students are requested to prepare an analysis and an elaboration of the components of the own project.

Teaching methods:

Students are requested to work in group during the initial phase and alone at the phase of the concept to develop the own architectural ideas. The students will work not only at home but also during the lessons front of the teacher (it is required to take the proper instruments for each application).

Learning outcomes:

- Knowledge and understanding

Students will be able to express their ideas through the architectural drawing and they will develop their cognition of architectural elements, spaces, forms, functions, materials...

- Cognitive skills (thinking and analysis).

Cognitive senses using deferent techniques. Also students will be able to express their ideas in architectural drawing

- Communication skills (personal and academic).

Architectural students will be able to communicate, read, use resources to develop their cognitive senses in architecture and environment.

- Practical and subject specific skills (Transferable Skills).

The course will train architectural students and qualify them in architectural design principles (cognition, analysis, syntheses and thinking) using the analytical and descriptive method.

Course Evaluation:

100 %	Year Work (60 Marks)	<i>First Exam</i>	Site analysis & Case study	20 marks
		<i>Second Exam</i>	Concept	20 marks
		<i>Third Exam</i>	Pre-final	20 marks
	Final Exam (40 Marks)	<i>Fourth Exam</i>	Final presentation of the project	40 marks

Documentation and academic honesty:

- Students are allowed to practice on sketching from books for training purposes copying is not allowed.

Course/module academic calendar:

Week 1	Monday 07-10-2009	Site analysis	
	Wednesday 09-10	Case study	
Week 2	Monday 13-10	Evaluation	20 marks
	Wednesday 15-10	Concept	
Week 3	Monday 20-10	Development of the concept	
	Wednesday 22-10	Studio Work + Development	20 marks
Week 4	Monday 27-10	Site plan	
	Wednesday 29-10	Plans	
Week 5	Monday 03-11	Development of plans	
	Wednesday 05-11	Development of plans	
Week 6	Monday 10-11	Elevations	
	Wednesday 12-11	Development of elevations	
Week 7	Monday 17-11	Sections	
	Wednesday 19-11	Development of sections	
Week 8	Monday 24-11	Pre-final	20 marks
	Wednesday 26-11	Final Submission	40 marks
Week 9	Monday 01-12		
	Wednesday 03-12	Site analysis	
Week 10	Monday 08-12	Case study	
	Wednesday 10-12	Evaluation	20 marks
Week 11	Monday 15-12	Concept	
	Wednesday 17-12	Development of the concept	
Week 12	Monday 22-12	Studio Work + Development	20 marks
	Wednesday 24-12	Site plan	
Week 13	Monday 29-12	Plans	
	Wednesday 31-12	Development of plans	
Week 14	Monday 05-01-2009	Development of plans	
	Wednesday 07-01	Elevations	
Week 15	Monday 12-01	Development of elevations	
	Wednesday 14-01	Sections	
Week 16	Monday 19-01	Development of sections	
	Wednesday 21-01	Pre-final	20 marks
Week 17	Monday 26-01	Final presentation	40 marks

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references:

- Francis Ching, Architecture, Form, Space and Order, John Wiley and Sons
- Baker, Geoffrey H (1993). Design Strategies in Architecture and Approach to the Analyses of Form, New York Van Nostrand Reinhold
- Scott, Robert, Design Fundamentals
- Clark, Roger H and Michael Pause (1985). Precedents in Architecture. New York. Van Nostrand Reinhold
- Laseau, Paul (1989). Graphic Thinking for Architects and Designers. New York Van Nostrand Reinhold.
- Architectural Review Periodical
- Architectural Record Review.