



**Philadelphia University**  
**Faculty of Engineering**  
**Department of Architecture**  
**First semester, 2012-2013**  
**Course Syllabus**

<b>Course Title : Architectural Design (5)</b>	<b>Course code : 660354</b>
<b>Course Level : Third</b>	<b>Course prerequisite : 660253 , 660223 , 660224</b>
<b>Lecture Time :</b>	<b>Credit hours: 8 weekly</b>

**Academic Staff Specifics**

<b>Name</b>	<b>Rank</b>	<b>Office Number and Location</b>	<b>Office Hours</b>	<b>E-mail Address</b>
<b>Dr. Nawar Sami Mehdi – course coordinator -</b>	<b>Assistant professor</b>			<b>nawarsm5@yahoo.com</b>
<b>Eng. Lama Al Ahmed</b>				
<b>Eng. Rawan Jaffar</b>				
<b>Eng. Sarah Darawshah</b>				

**Course module description**

The course is intended to familiarize the students to the design of complex buildings like Museums and Halls for Art Performances , where the design process is integrated with critical requirements , like : lighting , acoustics , span of vision and structure . These requirements have a major impact on the Architectural Form .

**Course module objectives**

The main objective of this course is enhancing the student's abilities of problem solving throughout the design process , by exposing him to the pressure of dealing with multiple systems and space functional requirements at the same time as with architectural form .

**Course/ module components**

The course includes two exercises of different types of buildings . Each exercise would require an introductory research , carried out by the students , and presented as a report . The report would be followed by the presentation of a personal project proposal for each student , submitted as drawings and models , developed through criticism and seminars sessions , and evaluated according to the requirements of the presentation phase.

**Teaching methods**

Exploring each exercise by explaining the requirements and discussing the problematic design issues , to form the necessary and basic background for the design exercise . Students would have to submit and develop their ideas on several phases of presentation . Each presentation would be followed by a studio session of analysis , a general or individual criticism of the submitted work , which should include the required models and drawings according to the exercise program .

**Learning outcomes**

The outcomes of this course would be :

- Knowledge and understanding :

It is expected that the student gains the comprehension of further more complicated systems in relation to the architectural design process , and the knowledge of methods of integrating multiple systems into the design of architecture .

- Cognitive skills (thinking and analysis) :

It is expected from this course to enhance the student's ability of analysis , and evaluation of the solutions in each exercise during the design process, at the same time as the development of concepts and ideas for the project , whether they are imagined or proposed .

- Communication skills (personal and academic) :

It is expected from this course to develop the student's ability to draw scenarios for the presentation of the design concepts and projects in the presence of an audience , and handle verbal discussions around them . This is expected to improve the personal and academic communicative skills .

- Practical and subject specific skills (Transferable Skills) :

It is expected that student gains the necessary training and qualification in the design of these types of buildings at a variety of scales, along with the awareness of the fundamental design requirements, such as the purpose of the project, the location, and the environment.

#### Allocation of Marks

Marks would be allocated according to the following assessment means :

Assessment means	Marks	Remarks
<b>Project 1</b> <b>Museum of Contemporary Fine Arts</b>	<b>40%</b>	<b>Details of grading to be allocated by the class instructor</b>
<b>project 2</b> <b>Concert Hall</b>	<b>60%</b>	<b>Details of grading to be allocated by the class instructor</b>
<b>Day sketches</b>	Included within the Projects' Marks	
<b>Participation</b>	Included within the Projects' Marks	
<b>Total</b>	<b>100%</b>	

#### Documentation and academic integrity

Students would be requested to document the information references , whether the data has been extracted from books, magazine, or web sites, in order to respect the copyright protection and avoid plagiarism .

#### Course/module academic calendar

Week	Basic title would be covered	remarks
(1)	<b>Classes gatherings and coordination</b>	
(2)	<ul style="list-style-type: none"> <li>• Introduction to exercise – Museum / assigning research teams &amp; tasks /defining research requirements /students visit to site</li> <li>• Research presentation</li> </ul>	
(3)	<ul style="list-style-type: none"> <li>• Development of the project</li> </ul>	
(4)		
(5)		1 <sup>st</sup> exam
(6)		
(7)		
(8)	<b>Final presentation</b>	
(9)	<ul style="list-style-type: none"> <li>• Introduction to exercise – Concert Hall / assigning research teams &amp; tasks /defining research requirements /students visit to site</li> <li>• Research presentation</li> </ul>	
(10)	Development of the project	
(11)		2 <sup>nd</sup> exam
(12)		
(13)		
(14)		
(15)	<b>Final presentation</b>	
(16) & beyond	<b>Final Exam</b>	

**Expected workload:**

On average students need to spend 8 hours in studio per week plus another at least 16 hours at home to develop their own projects

**Attendance policy:**

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

**Module references**

- All Architectural Books , Periodicals , and Websites related to the Design's Exercises .
- All Books of Standardization in Architecture , such as :
  - Neufert, Ernst and Peter . Architect's Data . Oxford Brookes University .
  - Time Saver Standards for Building Types . McGraw-Hill .