

## Faculty of Engineering & Technology

### Graduation Project Studies

#### Information :

**Course Code :** ARC 501

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** Department of Architectural Engineering

#### Instructor Information :

Title	Name	Office hours
Lecturer	MOHAMED MAHMOUD SAYED MAHMOUD SALEH	1
Teaching Assistant	Salma Mohamed Eltohamy Elgendy	
Teaching Assistant	Omar Magdy Ahmed Ibrahim Elbahrawy	

#### Area Of Study :

The main aims of the course are to:

- Train students different techniques of information gathering and data analysis in relation to a specific design theme
- Develop the students' knowledge and skills in the different processes of site selection and analysis, collecting necessary data and information, design standards and criteria, and performing analytical studies of program and site for the project and other similar projects
- Train students to analyze and criticize architectural projects through different case studies
- Train students to prepare the preliminary studies to the Graduation Project that includes the basic criteria of design in addition to a fully developed architectural program

#### Description :

The course aims at preparing the preliminary studies to the final design studio (the graduation project) that includes the basic criteria of design, the formulation and development of the program, site evaluation, collecting necessary data and analytical studies of program and site. Precedents and similar architectural projects are also studied, analyzed, argued and compared. This is an integrated study that combines the collective outputs of previous architectural, technical, environmental, urban design and planning studies and knowledge acquired through the years of study that finally leads to the required architectural and urban program.

#### Course outcomes :

##### **a. Knowledge and Understanding: :**

1 -	Identify contemporary engineering, architectural and urban topics
2 -	List clients needs/requirements for designing a certain building type
3 -	Interpret different methods of data collection and analysis
4 -	Illustrate a structure for the graduation project's technical report

##### **b. Intellectual Skills: :**

1 -	Compare different case studies
2 -	Formulate different alternatives based on analytical thinking
3 -	Assess data collected from different resources

**c. Professional and Practical Skills :**

1 -	Prepare the Architectural Program using appropriate techniques for representation utilizing a mix of different media
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**d. General and Transferable Skills :**

1 -	Communicate effectively with others using visual, graphic, written and verbal means
2 -	Discuss ideas
3 -	Manage time under stressful environments and budget constraints

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Project Selection	6	2	4
Project Brief	9	3	6
Site Selection and Analysis	9	3	6
Examples and Use of Precedents	9	3	6
Program Development and Analysis	9	3	6
Final Submission: Program; Report & Poster	3	1	2

**Teaching And Learning Methodologies :**

Lectures and Presentations on Different Aspects of the Design Problem
Information Collection from Different Sources
Research Presentation
Class Discussions, Sessions and Research Critiques

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Final research submission	25.00		
Final Research Submission:	40.00		
First preliminary research submission	10.00		
Participation	10.00		
Second preliminary research submission	15.00		

**Course Notes :**

No course notes are required

**Recommended books :**

Course notes and lectures are available on the Moodle for all participants  
 Recommended Readings:  
 Any books related to the student's chosen building type  
 Architectural Magazines and Projects

**Periodicals :**

~Architecture  
~Architectural Record  
~Architectural Review  
~Architecture d'aujourd'hui

**Web Sites :**

~www.architecturalrecord.com  
~www.greatbuildings.com