

Faculty of Engineering & Technology

Execution Designs 3

Information :

Course Code : ARC 571

Level : Undergraduate

Course Hours : 4.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Nader Ibrahim Ismael Ibrahim	13
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	6
Assistant Lecturer	AMANY MEDHAT HUSSEIN KHALIL MOHAMED	

Area Of Study :

• Demonstrate an entire set of integrated execution documents for projects presenting a complete architectural project with emphasis on structural, construction and technical working details.

• Address areas like preparation of integrated execution documents for projects, Quantity surveying, Analysis of bids, Cost analysis, Shop and as built drawings .

• Produce advanced Quantity surveying documents for projects.

Description :

Preparation of integrated execution documents for projects, Preparation of working drawings of a pre-designed project, Including wide spans, General conditions and specifications, Quantity surveying, Analysis of bids, Cost analysis, Shop and as built drawings.

Course outcomes :

a. Knowledge and Understanding: :

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| 1 - | a1. Identify the measuring units of each item of Quantity surveying. |
| 2 - | a2. Identify the process of making; analysis of bids, and cost analysis. |
| 3 - | a3. Identify the importance of shop drawings & as built drawings. |

b. Intellectual Skills: :

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| 1 - | b1. Formulate problem solutions related to integrated execution & Quantity surveying |
| 2 - | b2. Choose optimum solutions for preparation of Quantity surveying of a pre-designed project. |

c. Professional and Practical Skills: :

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| 1 - | c1. Apply manual & digital techniques to conduct Quantity surveying documents for a project. |
| 2 - | c2. Apply new techniques used in Cost analysis. |

d. General and Transferable Skills: :

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| 1 - | d1. Work in team work research. |
| 2 - | d2. Communicate effectively with others. |

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Preparation of integrated execution documents for projects.	2	4	6
Preparation of working drawings of a pre-designed project.	2	4	6
integration of complex multi-disciplinary issues	2	4	6
Introduction to Quantity surveying	2	4	6
Survey different quantities of construction/building items . Manual Method	4	8	12
Midterm Exam , Revision	2	4	6
Survey different quantities of construction/building items . Using AutoCad Software & Excel Sheets	2	4	6
Introduction to Quantity surveying in Revit software	2	4	6
Analysis of bids & Cost analysis	2	4	6
Shop drawings & As built drawings	2	4	6
Practical Quantity surveying	4	8	12
Final Quantity surveying project	4	8	12

Teaching And Learning Methodologies :

Lectures.

Assignments and lap work

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments and lap work	20.00		
Attendance & Participation.	10.00		
Final examination.	40.00		
Mid-term examination(s).	30.00		

Course Notes :

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Recommended books :

Slitt; Fred. Working Drawing manual, 1998, McGraw Hill
 Allen; Edward, Iano; Joseph. Fundamentals of Building Construction: Materials and Methods, John Wiley & Sons, 2011

Periodicals :

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Web Sites :

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