



Course Specification

(Bachelor)

Course Title: Specifications and quantities

Course Code: APAR23

Program: Architectural Engineering Technology

Department: NOT AVAILABLE

College: Applied College

Institution: Umm Al-Qura University

Version: 1

Last Revision Date: Pick Revision Date.

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A. General information about the course:

1. Course Identification

1. Credit hours: (2)

2. Course type

- A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
- B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (2nd year 1st semester)

4. Course General Description:

the course includes principal of Quantities and Specification of buildings, and it's uses in the field of building and architecture, the course concentrating on the quantities and specification in the buildings and how can it be constructed and the component of this systems. This course also teaching the systems quantities and specification in building and preparation of the related drawings

5. Pre-requirements for this course (if any):

6. Co-requisites for this course (if any):

7. Course Main Objective(s):

To teach the students the skills of calculate Quantities and understand Specification of material used in buildings.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2	100%
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4	Distance learning		



3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	2x14
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		28

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Identify materials quantities in buildings	K1	- Lecture - Presentation	- Short quiz - written exam - practical drawings
1.2	Outline basic concepts about different measurements systems of material quantities	K2	- Lecture - Presentation	- Short quiz - written exam - practical drawings
1.3	Classify buildings materials specifications	K2	- Lecture - Presentation	- Short quiz - written exam - practical drawings
2.0	Skills			
2.1	Apply knowledge of building materials quantities	S2	- Lecture - Presentation	- Short quiz - written exam - practical drawings
2.2	implement and evaluate a type of materials quantities in buildings.	S4	- Lecture - Presentation	- Short quiz - written exam - practical drawings
2.3	implement and evaluate a type of materials quantities in residential and commercials buildings.	S4	- Lecture - Presentation	- Short quiz - written exam - practical drawings
3.0	Values, autonomy, and responsibility			
3.1	Work cooperatively in a small group environment.	V2	- Lecture - Presentation Whole group discussions	- Short quiz - written exam - practical drawings
3.2	Keep pace with advanced knowledge in the field of the computer aided design, architecture drawings and presentation.	V5	- Lecture - Presentation Whole group discussions	- Short quiz - written exam - practical drawings

C. Course Content

No	List of Topics	Contact Hours
1.	introduction	2
2.	building executions stages	2
3.	calculation of excavation items	2
4.	calculation of plan concrete items	4
5.	calculation of reinforced concrete items	4
6.	calculation of masonry walls items	2
7.	calculation of finishing items	4
8.	specifications of executions buildings	4
9.	Contracts in engineering projects	4
Total		28

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	3,5	10%
2.	Practical drawings (homework)	Every week	20%
3.	Midterm exam	8	10%
4.	Research report	15	10%
5.	Final exam	16	50%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Haider, Encyclopedia of modern technology in the construction of buildings, three parts, Alexandria: dar el marafa, 2010.
Supportive References	
Electronic Materials	
Other Learning Materials	Instructor Lecture book

2. Required Facilities and equipment

Items	Resources
facilities	(Classrooms, laboratories, demonstration rooms/labs, etc.) Class room,





Items	Resources
(Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	
Technology equipment (projector, smart board, software)	software Data show
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Questioner of course quality
Effectiveness of Students assessment	Peer reviewers	Random grading report Test Completion report for test Standards
Quality of learning resources	Students	E-Survey of sufficiency of learning resources
The extent to which CLOs have been achieved	Program leaders	Results of quizzes, mid-term and final exams- Presentation and discussion.
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Umm Al-Qura University Council
REFERENCE NO.	851141114462/190372
DATE	22/11/1446 هـ

