



جامعة أم القرى
UMM AL-QURA UNIVERSITY

College of
Engineering and Architecture

Department of
Architecture

**Required
Research Papers**
in each course



**Required Research
Papers**
in each course



Preface

One of the most important goals of the process of transitioning to the three-semester system is to raise the level of efficiency and effectiveness in using and managing time and to reduce the waste of time that may occur in some cases.

Therefore, it was necessary to enhance the effectiveness of self-learning by encouraging students to explore topics through scientific research. These topics are then presented and discussed collectively; a method known as cooperative learning.

The following is a list of the topics required in each course during the first semester of the academic year 2024/2025, which includes the name of the topic, the time required for submission, and the type of research in terms of whether it is individual or teamwork research.

Course Title	Lecturer Name	First Research	Type	Duration	Second Research	Type	Duration	Third Research	Type	Duration
Building Construction 1	Ehab Farouk Rached	Different types of structure	Teamwork	Four weeks						
Building Construction 2	Faraq Mohamed Zaki	Topics in Building construction 2	Teamwork	Two weeks						
Building Construction 3	Faraq Mohamed Zaki	Topics in Building construction 3	Teamwork	Two weeks						
Building Construction 4	Ehab Farouk Rached	Types of construction equipment and performance rates	Teamwork	More than one month						
Building Materials	Naif Sultan Alaboud	Building Materials	Individual	Four weeks						
Buildings Design Standards 1	Fares Saad M Al-Sayigh	Topics 1	Teamwork	Two weeks	Topics 2	Teamwork	Two weeks	Topics 3	Teamwork	Two weeks
Buildings Technical Installation	Abdullah Abdulhameed Bagasi	Escalators and elevators	Individual	Two weeks	Field report on Sanitary/Electric works for a building	Teamwork	More than one month			
Computer Applications 2	Ahmed M. A. Shehata	Vector based applications	Individual	One week						
Digital Architectural Photography	Abdullah Abdulhameed Bagasi	Take a professional photo (practical)	Individual	More than one month						
Environmental Control	Abdullah Abdulhameed Bagasi	Microclimate data for a specific location in Makkah	Individual	Two weeks						
Execution Design Studio 2	Mohamed Wahba Ibrahim Khaill	The tender specifications documents of the project	Teamwork	More than one month						
Fundamental Design Principles Studio	Mohamed Wahba Ibrahim Khaill	Use spaces of housing units	Individual	Four weeks						
Graduation Project Research	Adel M. Binyaseen	Each student has different research	Individual	More than one month						
High-Tech in Building Construction	Naif Sultan Alaboud	Construction Technologies	Individual	Four weeks						

Course Title	Lecturer Name	First Research	Type	Duration	Second Research	Type	Duration	Third Research	Type	Duration
History and Theories of Architecture 2	Mohammad Altaher AlJifri	Michelangelo; Andrea Palladio; Leon Battista Alberti; Arab World Institute.; Centre Pompidou; Tuwaiq Palace	Teamwork	Four weeks						
History and Theories of Architecture 3	Mohammad Altaher AlJifri	Multi-story Car Parking & Garages; International Bus Stations; Pier Luigi Nervi; Oscar Niemeyer; Mies Van Der Rohe	Teamwork	Four weeks						
History and Theories of Architecture 4	Mohammad Altaher AlJifri	Rem Koolhaas; Rasem Badran; Santiago Calatrava; Dubai International Airport; Railway Stations; King Faisal University Hospital	Teamwork	Four weeks						
History and Theories of Urban Planning	Khaled M. Samy Hassan Sayed	cities in ancient ages	Individual	Two weeks	town planning in Islamic cities	Individual	Two weeks	medieval town planning	Individual	Two weeks
Housing	Adnan Yehya Alshahrani	Historical changes within the Saudi housing	Teamwork	Four weeks	Historical changes in Saudi housing	Teamwork	Three weeks			
Rules and Regulations of Urbanism	Omar Adnan Abdullah Ostra	Identify the effects of planning rules and building regulations on the built environment	Individual	Three weeks						
Urban Design	Omar Adnan Abdullah Ostra	Studying formal and informal settlements in Makkah	Individual	Three weeks						
Urban Heritage in Saudi Arabia	Mohamed Abubaker Bakader	Research about the heritage sites in KSA	Individual	Three weeks						
Vernacular Architecture Architectural Design	Abdullah Abdulhameed Bagasi	A field study of the local architecture of a neighborhood in Makkah	Individual	Two weeks	Local architecture of one of the regions of Saudi Arabia	Individual	Four weeks			
Studio 5 Architectural Design	Ahmed M. A. Shehata	Site Analysis Environmental Conditions Analysis	Individual	Less than One week	Similar Buildings Analysis	Teamwork	Less than One week			
Studio 6 Building Construction	Ahmed M. A. Shehata	Site Analysis	Teamwork	One week	Site Analysis	Teamwork	One week			
Studio 1: Site Preparation	Ahmed M. A. Shehata	Site Preparations and Tests	Teamwork	Four weeks	Construction Materials and Tools	Teamwork	Four weeks			
High-Tech in Building Construction	Naif Sultan Alaboud	New technologies in building construction	Individual	Four weeks						
Architectural Criticism	Naif Sultan Alaboud	Trends in modern architectural criticism	Teamwork	Four weeks	Criticism of an architecturally considered building	Teamwork	Four weeks			
Building Materials	Naif Sultan Alaboud	Building Materials	Individual	Four weeks						

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