



Umm Al-Qura University
College of Engineering & Islamic Architecture
Department of Islamic Architecture

جامعة أم القرى
كلية الهندسة والعمارة الإسلامية
قسم العمارة الإسلامية

Required Research Papers

(DIA-23)



قائمة بالابحاث المطلوبة من الطلاب

Main Campus at Al-Abdiyah Makkah, KSA
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List of Required Research Papers (2017/2018)- First Semester



Course Title	Type of the Research	Research Title/ Topic	Estimated Time to Complete	Faculty member's name
Architectural Design 3	Teamwork	Architectural theories of schools	One week	Mohamed Atef Elhamy
	Teamwork	Site Analysis	Three days	
Architectural Design 5	Individual	Site analysis	One week	Abdo Thabit Mohammad
	Individual	Neighborhood services	One week	
Architectural Design 7	Teamwork	Design of Specialized Hospitals	Two weeks	Adel Binyaseen
Building Construction 2	Teamwork	Types of Stairs -Types of Insulation	More than one month	Farag Zaki
	Teamwork	Types of Expansion joints & settlement joints - Roofing Types	More than one month	
Building Construction 3	Individual	Doors and windows	One week	Mohammad A. AlJifri
	Individual	Floors finishing	One week	
Building Construction 4	Teamwork	Construction equipments	More than one month	Amr Mohamed Elzawahry
Building Science 1	Teamwork	Applications of environmental solution in buildings	Five days	Samurai Felmban
	Teamwork	Daylight in space	Four days	
Contemporary Islamic Architecture	Individual	Studying works & career of certain architect	Two weeks	Mohammad A. AlJifri
	Individual	Analaysing Contemporary Islamic Architecture Building	Two weeks	
Descriptive Geometry/Shadow and perspective	Individual	Homework to the given Lecture	One week	Said Mansi
Graduation Project Research	Individual	Graduation project research	More than one month	Adel Binyaseen
Mega Structure Buildings	Teamwork	Types of Mega Structure Buildings	More than one month	Farag Zaki
	Teamwork	Design criteria for Skyscrapers & Design Criteria for Stadiums	More than one month	
Outdoor Space Design	Teamwork	Urban Spaces	More than one month	Amr Mohamed Elzawahry
Properties of Building Materials	Teamwork	Research about one of the given Materials showing its kinds and uses.	Two weeks	Said Mansi
	Teamwork	PPT about one of the given Materials.	Two weeks	
Sustainability and Green Architecture	Individual	Example of sustainable building	Two weeks	Mohamed M. Shawky Abou Liela
	Individual	Example of green building	Two weeks	

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Theories of Architecture	Teamwork	The Architecture in Renaissance, The Industrial Revolution, 19th Century Trends, The Pioneers on late 19th - Early 20th Century.	One month	Abdulkareem Mutahar
Theories of Architecture 3	Teamwork	Modern Architecture, Late Modern Architecture, Post Modern Architecture, Islamic Architecture in 20th - 21th Century.	One month	Abdulkareem Mutahar
Urban Heritage and Experience of KSA	Individual	Example of heritage building in ksa	Two weeks	Mohamed M. Shawky Abou Liela
	Individual	Example of heritage building around world	Two weeks	
Urban Planning 2	Individual	A theoretical study on the level of basic housing services in the neighborhood of aziziyah (or neighborhood where the student lives)	Two days	Abdo Thabit Mohammad
	Individual	A field study to raise document and analyze the level of basic urban services	More than one month	
Architectural Design Studio 3 (p37)	Individual	Comparison between hotels & motels ..	Four days	Mohamed Wahba Ibrahim
	Individual	Use spaces for restaurant projects	Three days	
Architectural Design Studio 1 (p37)	Teamwork	Architectural presentation	Two weeks	Tarek Farouk Abdelsalam
Building Construction 1 (p37)	Teamwork	Soil mechanics & Type of Foundation	One month	Khaled Nasser Mohamed Barashed
	Teamwork	Skeleton constration system's & slabs	One month	
Environmental Control (p37)	Teamwork	Thermal performance of buildings	Two weeks	Ahmed M. Shehata
	Teamwork	Acoustical noise within urban spaces	Two weeks	

List of Required Research Papers (2016/2017)



Course Title	Type of the Research	Research Title/ Topic	Estimated Time to Complete	Faculty member's name
Architectural Design 1	Teamwork	Architectural presentation	Three weeks	Abououf,Dhawahry,Ashy, Wafi,Aloboud
Architectural Design 1	Individual	Form, space and order	One month	Mohamed Wahba Ibrahim
Architectural Design 2	Individual	Site analysis	Three weeks	Abououf,Dhawahry,Mansi ,Wafi,Aloboud
Architectural Design 2	Individual	Site analysis	Three weeks	Abououf,Dhawahry,Mansi ,Wafi,Aloboud
Architectural Design 2	Individual	Furniture and use space	One week	Mohamed Wahba Ibrahim
Architectural Design 3	Teamwork	Nurseries and play schools - Cultural Centers	Four Days	Mohamed Atef
Architectural Design 4	Teamwork	Structure systems	Four Days	Mohamed Atef
Architectural Design 7	Teamwork	One day surgery hospitals	Two weeks	Ahmed M. A. Shehata
Building Science 1	Teamwork	Wind catchers- sun breakers- solar energy - building orientation	More than one month	Samir M Felmban
Building Science 2	Teamwork	Sanitary equipments	One week	Samir M Felmban
Computer Applications 2	Teamwork	Computer applications in design evaluation	Three weeks	Ahmed Mohamed A. Shehata
Design Process and Methods	Individual	3D form Assisment	Two weeks	Abououf,Alsedery
Graduation Research Project	Individual	Graduation project	More than one month	Adel M Binyaseen
Graduation Research Project	Individual	How to write a scientific research?	Two weeks	Said Mansi
History of Architecture	Individual	Pharaonic temples architecture	One week	Ali Elmansoury
History of Architecture	Individual	Mesopotamian architecture	One week	Ali Elmansoury
History of Architecture	Teamwork	Poster	Two weeks	Ali Elmansoury
Mega Structure Buildings	Individual	Design Basics of skyscrapers and stadiums	Two weeks	Said Mansi
Modern Technologies in Construction Buildings	Individual	Curtain Walls	One week	Ali Elmansoury
Modern Technologies in Construction Buildings	Teamwork	analysis for Intelligent building	Two weeks	Ali Elmansoury
Properties of Materials	Individual	Research about kinds of concrete and its components /tests or about finishing materials	Two weeks	Said Mansi

Course Title	Type of the Research	Research Title/ Topic	Estimated Time to Complete	Faculty member's name
Theories of Architecture 1	Teamwork	Part 1: Definitions and architectural terms, Analysis of the buildings, Design process...etc. Part 2: Design considerations for buildings (Residential, Religious, Administrative, Sports, Services...etc. Part 3: The most important pioneers (Frank Liyod Wright, Lectorbusier, Walter Gropius, Mies Van Dorrah & Oscar Niemeyer).	More than one month	Abdulkareem Mutahar Abdullah
Theories of Architecture 2	Teamwork	Part 1: Architecture in the period (Renaissance, Mannerism, The Baroque & Rockco). Part 2: 18th Century (The era of the Reason & Industrial Revolution), 19th Century (trends/approach Architecture). Part 3: The Generation Pioneers; from the late 19, until early 20th century (Adolf Loos, Otto Wagner, Peter Buhrnz, Hendrik Berlage, August Perret, Louis Sullivan...etc.	One month	Abdulkareem Mutahar Abdullah
Theories of Architecture 3	Teamwork	* Differrent architectural movements and their pioneers (Modernism, Late Modernism, Post Modernism) & The development stages of Islamic Arch. In (20 - 21) century and their important pioneers.	One month	Abdulkareem Mutahar Abdullah
Housing	Individual	Research accompany the course .1.comparative research on urban al housing types in the cities of Saudi Arabia Study the types of housing in a residential your local area and then .2 compareit to residential standards Action Sketch for planning a public site for an area of land in the .3. range of 1-2 hectares, using three different types of housing compared with the uses of the land and densities and standards	More than one month	Abdo thabeet mohamed

**List of Required Research Papers
(2015/2016)**



Course Title	Type of the Research	Research Title/ Topic	Estimated Time to Complete	Faculty member's name
Architectural Design 1	Individual	Architectural drawing presentation	One week	Mohamed Wahba
Architectural Design 2	Individual	Housing units & restaurants design	More than one month	Mohamed Wahba
Architectural Design 3	Teamwork	Libraries	Four Days	Mohamed Atef
Architectural Design 4	Teamwork	Structure systems	Four Days	Mohamed Atef
Architectural Design 5	Teamwork	Site Analysis; neighbourhood components	Two weeks	Abdu absi, Khaled Barashed; Khaled Sami
Architectural Design 6	Teamwork	Housing	Two weeks	Mohamed Shawky Abouliela
Architectural Design 7	Individual	Design project studies: site & space prgram	Two weeks	Magdy Elbastawisy
Building Construction 1	Teamwork	Type of Foundation	Two weeks	Khaled Nasser Mohamed Barashed
Building Construction 2	Teamwork	Types of Stairs,Ramps,Elevators-Types of Insulation-Expansion joints,settlement joints-Roofing Types	More than one month	Farag Mohamed Zaki
Building Construction 3	Teamwork	Types of Doors and Windows-Partition walls-Suspended ceiling Details-External &Internal Finishing Materials-Suspended ceiling-Floor Finishing	More than one month	Farag Mohamed Zaki
Building Construction 4	Teamwork	1-Types of Equipment Used in Construction. 2-System of Prefabricated Buildings	One month	Ihab Rached
Building Economy	Teamwork	Building cost: architectural factors. Building cost estimation. Specifications: final cost, quality and performance. Value engineering: concept and benefits.	More than one month	Ibraheem Al-Bukhari
Building Science 1	Teamwork	Climatic factors influencing the architecture	One month	Amr Elzawahry
Building Science 2	Individual	Sanitary works	Two weeks	Said Mansi
Building Science 2	Individual	Electrical works	Two weeks	Said Mansi
Building Science 2	Individual	Free research about any related subject	Two weeks	Said Mansi
Construction Management	Teamwork	The need for construction management in building industry. Computer-application in construction management. Visualization management. CPM: an overview Construction contracts: types, parties, and relationships. BIM: an approach for better construction management	More than one month	Ibraheem Al-Bukhari
Design Process and Methods	Individual	Application on site analysis	Two weeks	Tarek Abououf
Graduation Research Project	Individual	Graduation Research Project	More than one month	Magdy ElBastawisy
History of Architecture	Individual	Pharaonic architecture- Greek Architecture- Roman architecture	One week	Ali El mansoury

Course Title	Type of the Research	Research Title/ Topic	Estimated Time to Complete	Faculty member's name
Housing	Teamwork	Neighborhood	More than one month	Amr Elzawahry
Islamic Architecture	Individual	Islamic House-Mosques	One week	Ali El mansoury
Islamic Science for Architecture	Teamwork	City elements lows	One month	J M SALAFI
Islamic Sciences: Application in Environment	Teamwork	The most Important Islamic principles to enhance and develop local human environment	One month	Talal Hassan M Hammadi
Landscape Architecture	Individual	Select an undeveloped outdoor urban open space in your or next to your house , and design it as "a residential neighborhood garden", and write a short essay bout its design with the principles of "From concept to form in landscape design .	More than one month	Talal Hassan M. Hammadi
Outdoor Space Design	Individual	Types of outdoor urban open space (urban plazas, neighborhood parks, miniparks and vest-pocket parks, campus outdoor spaces, outdoor spaces in housing for the elderly, child-care outdoor spaces, hospital outdoor spaces,streetscape ,seafont linear parks ,and zoo projects). Pleas write a scientific essay about one type,with some case studies in your local environment .	More than one month	Talal Hassan M. Hammadi
Properties of Materials	Teamwork	Building materials	One week	Said Mansi
Summer training 1	Teamwork	Traditional buildings	More than one month	Adel Binyaseen
Sustainability and Green Architecture	Teamwork	1-The application of green architecture concept in building. 2-An analytical comparative study to one of the traditional building models and the latest model of a modern building.	One month	Ihab Rached
Theories of Architecture 1	Teamwork	Design consideration of some buildigs; (Modern home, Gym, Swimming pools, Nursery & kindergarten, Primary school, Museums, Mosques, Restaurants and Motels...etc. In addition to the most important Pioneers, such as; Frank Lioyd Wright, Le Corbusier,...etc.	More than one month	Abdulkareem M. Hamidaddin
Urban Heritage and Experienc of KSA	Individual	Example of urban heritage conservation	Three weeks	Magdy ElBastawisy
Urban Planning 1	Teamwork	Compare between the main elements of the city in the Greek and Roman civilizations	Two weeks	Khaled Samy & Abdo Absi
Urban Planning 2	Teamwork	Neighbourhood Planning	Two weeks	Khaled Samy & Abdo Absi
Working Drawings	Individual	Finishing materials	One month	Mohamed Wahba