

COURSE SYLLABI

Course number and name	AE 213-3 Architecture Design (1)
Credits hours	3 Credit hours
Contact hours	5 Contact hours; 0 for lecture, 5 for Tutorial and 1 for practical
Instructor name	Lecturer. Musa M Babiker
Textbook	<ul style="list-style-type: none"> • Ernest Neufert, Architects' data, 2nd, New York 1980. • Ching, Francis, & Steven Juroszek. Design Drawing. 1998.
Other supplemental materials	<ul style="list-style-type: none"> - Saudi Digital Library through the following link: https://sdl.jazanu.edu.sa/. - The provided student services: https://www.jazanu.edu.sa/stuservices-2-2
Specific course information	
Catalog description	This course aims at Identifying the design process and its variable dimensions – Studying the distribution of main uses and how to connect them using circulation elements – Studying qualitative and quantitative space needs for different activities – Studying elevations and openings required for different spaces – Linking among human, climatic and functional needs – Studying simple structure for small buildings – Training the student to solve simple design problems (villa, • Duplex Twin House, Incubation, • Restaurant, ...).
Prerequisite	AE 212-3
Required / Elective	Required
Specific goals for the course	
Course Learning Outcomes (CLO)	<p>By the end of this course, the student should be able to:</p> <ul style="list-style-type: none"> - Remember the various function relationships of the architectural design project that achieves sustainable functions, uses and solutions (SO2). - Identify the various architectural designs that achieve sustainable functions, uses and solutions (SO3). - Explain architectural design project Concept professionally (SO3). - Design Architectural project, to meet desired realistic constraints (SO4). - Extract values architectural ideas through presentation of architectural design project (SO4).
Student outcomes that addressed by the course	<p>The following student outcomes are addressed by the course:</p> <ul style="list-style-type: none"> - SO2: An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

	<ul style="list-style-type: none"> - SO3: An ability to communicate effectively with a range of audiences. - SO4: An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
List of topics to be covered	<ul style="list-style-type: none"> • Introduction, Research& data analysis. • Analyzing Project sample. • Preliminary design: schematic concept. • Preliminary design: schematic concept. • Develop floor plan and functional detailing. • Develop floor plan and functional detailing and relationship. • Develop internal spaces Design and review plan elevations, sections. • Midterm (Presentation) (Concept, plan, section, elevation). • Development building Masses and Elevation design. • Development Elevation design and rendering. • Coordination of Plans. • Coordination of Sections. • Coordination of Elevations. • Coordination of Lay Out. • Final Project (Final Presentation).

CLO-SO Map							
SOs	SO1	SO2	SO3	SO4	SO5	SO6	SO7
CLOs							
CLO 1		√					
CLO 2			√				
CLO 3			√				
CLO 4				√			
CLO 5				√			