ARE 301 ARCHITECTURAL DESIGN II

Instructor	: Sabeer Hamid	**Location**	: 19-325 C
Office	: 19-331	**Course Timings**	: Saturday & Monday,
Office Hours	: As Posted		1.10 PM to 5.00 PM
E-mail	sabeer@kfupm.edu.sa		

1. Course Description

This course is a continuation of a two-semester sequence of design studios. Introduction and appreciation of the design process through dealing with more complex buildings and lager project sites. The concept of building design as a multi-disciplinary approach is introduced. Integration of structural, mechanical, and environmental control systems with the building function, form, and spaces' organization is emphasized. Basic elements of architectural form and space and how they can be manipulated, organized in the development of a design concept and their visual implications are explored.

2. Textbook and or other References

Textbook	• Paul Laseau, Graphic Thinking for Architects and Designers, Van Nostrand Reinhold, 1980
Reference(s)	• The handbook of building types, Neufert, Architects' Data. 2nd Edition, Garanda Publishing, 1980. • Francis D.K. Ching, Architecture: Form, Space and Order, Van Nostrand Reinhold, 1979. • Others: JOURNALS AND MAGAZINES such as: • *Architectural Record*, *Architectural Review*, *Architectural Design*, • *Mimar*, *Progressive Architecture*, *Harvard Architectural Review*

3. Course Objective

Course Objective(s)	Related To Program Objective Number
• *To further develop* the design skills related to the design process acquired in the earlier course ARE 202 and enhance space organization skills.	**2**
• *To provide* an in-depth understanding of the design process and problem-solving approaches while enriching students' design vocabulary.	**1**
• *To introduce the concept* of building as a **multi-disciplinary** product with integrated parts (many systems) working to make the building a whole.	**1**
• *To practice the design process* on design problems and project programs of moderate-size and complexity than those introduced in earlier course to achieve multi-objective architectural design within multiple design constraints.	**2**

3. Course Outcomes

Relationship of Course to Program Outcomes	Program Outcome
• To be able to do **site analysis** and understand its impact on design and apply different approaches to **design problem solving** considering context.	**2.1**
• To be able to **evaluate building architectural designs** by considering form-function relationship in order to create spaces in architecture.	**2.2, 2.5**
• To be able to **develop** an architectural **design** for moderate-scale projects considering several building **engineering** systems integration.	**2.2, 2.3**
• To be able to **utilize computing essentials**, IT, and contemporary resource in the analysis and solution of architectural design-related problems.	**2.6**
• To be able to perform **oral, written,** and **visual communication**s using graphical software tools and appreciate their positive impact on design output presentation.	**2.7**

4. Course Schedule

Week Number	Total weeks	Description
1		Minor Design Project 1 [Presentation on 8th March]
2	3	
3		
4		Minor Design Project 2 [Presentation on 5th April]
5	4	
6		
7		
8		Major Design Project [Presentation on June 2nd]
9		
10		
11	8	
12		
13		
14		
15		

5. Course Work and Requirement

The studio will usually start with a group meeting where the instructor will discuss the objectives of the studio and the process of studio utilization. Students are expected to interact with the instructor during the meeting and debrief the instructor about their respective projects. As needed, the first one hour of the studio will be allocated for

instruction and focused discussions followed by the second studio secession. During the next secession, students will work in their respective cubicles and will be attended individually by the instructor. When required, additional group discussions will be held.

Attendance throughout the studio secession is a must, student's physical and mental presence is appreciated which will result in enhanced learning and better design output.

6. Project Deadlines

Students are requested to comply with the course schedule and deadline dates. However, modification in the scheduled dates can be carried out on mutual agreement among the students and the instructor. For best performance, strict adherence to the outlined course schedule is recommended.

7. Course Grading

Classification	Percentage (%)
Attendance	10
Participation, personal qualities, punctuality & initiation	10
Minor Projects	20 x 2
Major Project	40

Note:

- As engineering students and future professionals, students are required to be responsible and be present in all the studio hours. A studios missed is knowledge lost. All the students should be present in the studio before the instructor arrives and should commence their design work minimizing the wastage of time. Attendance will be taken a number of times during the studio hours and will not be repeated.

- Two un-excused absences from the studio will result in a warning letter. Further absence requires the student to withdraw from the course (W) or (DN) will be reported to the registrar office.

- Late submission of project work at all the stages is not expected and will result in reduced grades.

- To complete your work and do a good job, you are expected to put extra efforts and time at your own convenience.