



**DEPARTMENT OF ARCHITECTURE ENGINEERING  
ARCHITECTURE ENGINEERING PROGRAM, BSC.**

**Course Syllabus**

- 1. Course number and name**  
AR586 / 0806586 Graduation Project II
- 2. Credits and contact hours**  
(0+6) 6 credit hours, 12 contact hours
- 3. Course type**  
Face-to-Face Learning Course (0+5)
- 4. Instructor's or course coordinator's name**  
Dr. Wael El-Shamaly  
Dr. Majida Yakhlef  
Dr. Montaser Hiyari (course coordinator)  
Dr. Rania Abu Ramadan  
Dr. Duaa Maani  
Eng. Alaa Gammoh  
Eng. Mazen Nabulsi
- 5. Textbook information**  
Provided during the semester based on project nature and typology
  - a. Other supplemental materials**  
Visualization techniques  
Case studies
- 6. Specific course information**
  - a. Catalog description**  
This course is an extension of (Graduation Project 1 AR 585). The student develops the concept through design endeavors that provide reasoning for architectural artifacts including form, function, aesthetic values, structural and MEP systems along with legislative and buildings codes.
  - b. Prerequisites or co-requisites**  
AR 585
  - c. The course is:**  
Required in Architecture program.



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**7. Specific goals for the course**

1. **Develop** concepts and philosophical approaches to architectural spatial design
2. **Understand** relationship between site conditions and the architectural design
3. **Understand** spatial experience as an integral part of design process
4. **Enhance** students' abilities to put together a complete professional set of architectural drawings of a project including conceptual diagrams, 2D drawings, 3D shots, details of various structural and building construction systems, material selection, landscape and physical models
5. **Enhance** students' ability to **communicate** and **defend** the project research graphically and verbally and to **convince** others about the validity of student's assumptions and decisions
6. **Improve** the following transferable skills:
  - (A) Oral presentation skills
  - (B) Architectural design
  - (C) Communication skills
  - (D) Multi-tasking
  - (E) Time management
  - (F) Self-learning skills
  - (G) Visual communication skills

**8. Learning Outcomes and their Alignment with Program Educational Objective (PEO's), Methods of Delivery, and Assessment Methods:**

| <b>Learning Outcomes</b>  | <b>Program PEOs</b> | <b>Method of Delivery</b>      | <b>Assessment Method</b>     |
|---|---------------------|--------------------------------|------------------------------|
| <b>Course Outcomes</b>  |                     |                                |                              |
| Ability to deal with the architecture of cultural diversity, and the impact of diversity on understanding needs, values, behavior patterns, physical abilities, and social and spatial patterns | 1.2.12              | Studio<br>(Example & Problems) | Project                      |
| Ability to use basics of organizing and formation, and their ability to affect 2D and 3D design   | 1.3.2.              | Studio<br>(Example & Problems) | Project/<br>Discussion Board |
| Ability to deal with the relation between human behavior, nature, and design of the built environment   | 1.3.3.              | Studio<br>(Example & Problems) | Project                      |



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| <b>Learning Outcomes</b>   | <b>Program PEOs</b> | <b>Method of Delivery</b>      | <b>Assessment Method</b>      |
|--|---------------------|--------------------------------|-------------------------------|
| Ability to respond to site characteristics such as soil, topography, green cover, and water surface when developing site design  | 1.3.5.              | Studio<br>(Example & Problems) | Project                       |
| Ability to apply public safety principles  | 1.3.6               | Studio<br>(Example & Problems) | Project                       |
| Ability to consider and create a balance between all factors affecting architectural design and urban development with proposed design solutions                           | 1.3.8.              | Studio<br>(Example & Problems) | Project/<br>Discussion Board  |
| Ability to create an architectural design that fulfills aesthetical, engineering, environmental, and urban requirements  | 1.3.9.              | Studio<br>(Example & Problems) | Project/<br>Discussion Board  |
| Ability to use appropriate presentation techniques such as manual drawings and digital technological methods to reach the proper form for each phase in the design process | 1.4.1.              | Studio<br>(Example & Problems) | Project                       |
| Ability to use communication skills and oral presentation of the project   | 1.4.3.              | Studio<br>(Example & Problems) | Project /<br>Discussion Board |
| Ability to assess design decisions in terms of function, environment, construction, and structure  | 1.4.4.              | Studio<br>(Example & Problems) | Project                       |
| Knowledge in basic principle of structural behavior for different construction systems.  | 2.1.2.              | Studio<br>(Example & Problems) | Project                       |
| Ability to use architectural solutions that achieve sustainable solutions including traditional solutions.   | 2.3.2.              | Studio<br>(Example & Problems) | Project                       |
| Knowledge of reusing and recycling building material and site material   | 2.3.3.              | Studio<br>(Example & Problems) | Project                       |
| Knowledge in moral issues related to professional decision making considering social, political, and cultural aspects in architectural design and practice                 | 3.2.1.              | Studio<br>(Example & Problems) | Project/<br>Discussion Board  |



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### 9. Weekly Teaching Plan

| Week | Lecture   | Topic   | Method of Delivery          |
|------|-----------|---|-----------------------------|
| 1    | Studio 01 | Introduction  | Studio                      |
|      | Studio 02 | Design Philosophy:  | Studio                      |
| 2    | Studio 03 | Translate Design Philosophy and its Terminologies into Architectural Idea. As a concept is generating tool; use the concept to organise the component parts of the project under a single idea.   |                             |
|      | Studio 04 |   |                             |
| 3    | Studio 05 | Conceptual Analysis & Diagrams:<br>The Student should analyze the site, context, programme and relationships between these topics and others to generate a concept.<br>The Student can start developing a conceptual idea by asking questions. Start with what you know - program and site.<br>Requirements: Conceptual Analysis + Conceptual Zoning Plan (scale 1:200) + Mass Model (scale 1:500)  |                             |
|      | Studio 06 |   |                             |
| 4    | Studio 07 | Conceptual Analysis & Diagrams  | Studio                      |
|      | Studio 08 |   |                             |
| 5    | Studio 09 | Recording ideas is a vital part of the design process.<br>Brainstorming can generate a series of ideas and sketches that lead you to other investigations.<br>Do not limit your conceptualization process to just words or images_ use both.<br>Learn from precedents and apply your own design sensibilities to the knowledge you have gained<br>Requirements: Conceptual Analysis + Conceptual Zoning Plan (scale 1:200) + Conceptual Sections (1:200) + Mass Model (scale 1:500) | Studio                      |
|      | Studio 10 |   | Studio                      |
| 6    | Studio 11 | Conceptual Analysis & Diagrams:<br>When trying to arrive at a conceptual idea, it is helpful to try to think physically about the idea<br>For example, you should sketch the idea, model it or draw it. It is important to remember that the idea is not the architecture_ it provides a way to arrive at the architecture.   | Studio<br>(jury discussion) |
|      | Studio 12 |   |                             |



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| Week | Lecture   | Topic  | Method of Delivery          |
|------|-----------|--|-----------------------------|
| 7    | Studio 13 | <b>Submission I: Concept Jury</b><br>Requirements: Design Philosophy, Conceptual Diagrams and Analysis, Schematic Master Plan (1:500), Schematic Plan(s) (1:200), Schematic Sections & Elevations (1:200), Schematic Physical Model (Massing) (scale 1:500), 3D Shots. For on-line submission, scale of drawings will be reconsidered.   | Studio<br>(jury discussion) |
|      | Studio 14 |  |                             |
| 8    | Studio 15 | Jury comments to be taken into consideration   | Studio                      |
|      | Studio 16 | Technical drawings: Plans, Sections, Elevations: (scale 1:200)   | Studio                      |
| 9    | Studio 17 | Holiday ( Eid Al-Fitr)   | Studio                      |
|      | Studio 18 |  |                             |
| 10   | Studio 19 | Technical drawings: Plans, Sections, Elevations: (scale 1:200)   |                             |
|      | Studio 20 |  |                             |
| 11   | Studio 21 | Work development   | Studio                      |
|      | Studio 22 | Final feedback before submission II  | -                           |
| 12   | Studio 23 | <b>Submission II:</b><br>Requirements: Site Plan and Landscaping, Detailed Plan(s) (1:200), Detailed Sections & Elevations (1:200), Physical Model, 3D Shots (exterior & interior), Construction Details (Integrate Innovative Structural and Electro-Mechanical Systems in the Design). For on-line submission, scale of drawings will be reconsidered.   | Studio<br>(jury discussion) |
|      | Studio 24 |  |                             |
| 13   | Studio 25 | Work development   | Studio                      |
|      | Studio 26 | Work development   | Studio                      |
| 14   | Studio 27 | Work development   | Studio                      |
|      | Studio 28 | Work development   | Studio                      |
| 15   | Studio 29 | <b>Final Submission</b><br>Requirements: Design Philosophy, Conceptual Diagrams and Analysis, Master Plan (1:500), Site Plan and Landscaping, Detailed Plan(s) (1:200), Detailed Sections & Elevations (1:200), Physical Model, 3D Shots (exterior & interior), Construction Details (Integrate Innovative Structural and Electro-Mechanical Systems in the Design). For on-line submission, scale of drawings will be reconsidered. | Studio<br>(jury discussion) |
|      | Studio 30 |  |                             |



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**10. Grade Distribution:**

| Assessment                     | Grade | Week No.                           |
|--------------------------------|-------|------------------------------------|
| Semester Progress & Commitment | 15%   | 1 <sup>st</sup> – 14 <sup>th</sup> |
| Conceptual Design              | 20%   | 7 <sup>th</sup>                    |
| Design Development             | 25%   | 12 <sup>th</sup>                   |
| Final Submission               | 40%   | TBD                                |

Note: Make-up exams will be offered for valid reasons. It may be different from regular exams in content and format.