Department of Architecture

College of Engineering

University of Salahaddin

Subject: Architectural Design III

Course Book –Year 2

Lecturer's name MSc, Hadeel Alsabbagh

Academic Year: 2023-2024

Course Book

1. Course name	**Architectural Design III (Independent house (Villa)**
2. Lecturer in charge	**Hadeel Alsabbagh**
3. Department/ College	**Architecture/ college of engineering**
4. Contact	**e-mail: hadeel.eshaq@su.edu.krd** **Tel: (optional)**
5. Time (in hours) per week	**Theory: 2 hours** **Practical: 8 hours**
6. Office hours	**Availability of the lecturer to the student during the week**
7. Course code	
8. Teacher's academic profile	**Hadeel Alsabbagh** hold a bachelor's degree in architecture, graduated from the College of Engineering-Architectural Department / University of Mosul in 2001, and completed his master's studies at the University of Baghdad to obtain a master's degree in urban and regional planning in 2005. He has been working at Salahaddin University/Architectural Department since 2006. Area of Interest: Spatial analysis using space syntax theory, urban mobility system, and social behavior studies in the built environment.
9. Keywords	**City planning, Spatial analysis, Urban mobility system**

10. Course overview:

In this course, students will design a villa project according to the following criteria:

1. Identify and recognize a theoretical background about architectural schools.
2. Create the project space program in term of required facilities and its areas.
3. Analyzing the selected site plans (Forest, desert, mountainous area, on the banks of a river, traditional area …… etc.)
4. Inspire the architectural concept from different levels.

11. Course objective:

The basic objectives of this course are:

1. To learn students how to design a house (villa),
2. To find relationships between different spaces in the villa.
3. To deal with the primary areas in the villa.
4. To learn students, how the user affects the design.
5. To learn students, how the site affects the design.
6. To deal with different architectural schools in the design.

12. Student's obligation

All students are required to arrive at 9:00 AM o'clock. Allow the delay to be only ten minutes.

-Do not use the mobile phone during the lecture.

-Students are not allowed to leave the classroom under any circumstances unless necessary and with permission from the teaching staff.

-It is not permissible to chew gum or food in the class and during lectures, and students may eat during breaks.
-When the lesson ends, all students must remain in their seats until the teaching staff leaves.
-It is not permissible to speak loudly during the lecture because it causes confusion to the lecturer and students in general.
- Students are required to present all assignments and submissions informed by the teaching staff.

13. Forms of teaching

These lectures are designed to help students to improve their architecture design skills to present their ideas as best as possible. Forms of teaching will be identified according to students needs by using the following teaching methods:

- PowerPoint presentation for theoretical part.
- White Board.
- Group discussion.
- Individual Feedback.
- Studio work.
- Homework.
- Using AutoCAD and 3D Programs to rendering and presentation.
- Projects Hand in (Daily and Presentation in different stages).

14. Assessment scheme

1. Define project components, Relationships (Matrix & Bubble diagram), Space Program and analysis, Similar Example, Site Analysis, Day Sketch: **25%**
2. Preliminary Submission: **20%**
3. Pre-final Submission: **25%**
4. Final Submission: **30%**

Total: 100%

15. Student learning outcome:

By the end of the course (Fall Semester), the students will be able to understand the following topics:
1- The basic components of the villa project? (indoor & outdoor)
2- The area of the different spaces in the villa.
3- The nature of the relationship between the different spaces in the villa.
4- The essential furniture for each space in the villa.
5- To understand how users can influence the design.
6- To understand how location affect the design.
7- The necessary facilities in the villa.
8- To understand how a smart building can be created.
9- To learn how to create architectural concepts according to architectural schools.
10. Understand the basic principles used by famous architects.

16. Course Reading List and References:

-De Chiara Joseph; Callender, John 1987. Time Saver Standards for Building Types. 2nd edition. McRAW-Hall International Editions.

- "Architects' Data (3rd Edition)" Ernst Neufert , Peter Neufert , Nicholas Walliman **, 2002.**
- "100 of the World's Best Houses" , Catherine Slessor,2002.
- "100 of the World's Best Houses" , Robyn Beaver,2005.
- "Another 100 of the World's Best Houses" , Robyn Beaver,2005.
- "Housing Technical & codes of practice for Iraq" ,Warsaw/Poland ,1982.
- Some useful e-books that you can find it in our Department's Library:
  - Architectural Design - Education and Culture.
  - Architectural Design – Houses
- **Useful websites:**
  - http://www.architecture-page.com
  - http://www.richardmeier.com
  - http://www.architectmagazine.com
  - http://www.arab-eng.org "good resource for e-books"

www.archdaily.com,
www.freshome.com
www.luxhomes.com
www.desmina.com
www.archspace.com
www.dezeen.com

17. The Topics:	**Lecturer's name**
12Weeks with 24 lectures: From the 10th of September to 7th of December **Week Theoretical Part Practical Part Tasks for students** **1st lecture** Coursebook and terms definitions. Introduction to the architectural design process and group formations. ……. **2nd lecture** Define project components. The area of the different spaces. Students should define the area according to ''Time Saver''. **3rd lecture** Project Components Discussing students' work. Students put this level in the final stage. **4th lecture** Explaining the relationships between different spaces Zoning, Matrix & Bubble diagram These techniques are applied by different groups. **5th lecture** Study the furniture used for each space Presenting furniture standards and required spaces. Students must prepare furniture for each space in the villa.	Design Staff

6th lecture How can the user influence the design? The design caters to a wide range of users Students must choose a job as a villa owner and identify basic characteristics. **7th lecture** Site Plan Analysis (SPA) Identify the site's potential and limitations and how they may affect the design. Students must choose one location to apply the analysis. **8th lecture** Similar Example Analysis Discussing students' work. Students put this level in the final stage. **9th lecture** Starting the concept & design strategies Apply design strategies Develop initial ideas. 10th lecture Architectural schools Villa design summary with different schools Students should flow a specific school **11th lecture** Introducing the world's leading architects-Part I. - Richard Meier - Le Corbusier - Kisho Kurokawa Define the principles for each architect and how can apply in the design. Students should adopt one architect. **12th lecture** Introducing the world's leading architects-Part II. - Peter Eisenman - Zaha Hadid - Frank Gehry Define the principles for each architect and how can apply in the design. Studio work **13th lecture** Introducing the world's leading architects-Part III. - Frank Lloyd Wright - Norman Foster - Bernard Tschumi Define the principles for each architect and how can apply in the design. Studio work **14th lecture** Introducing the world's leading architects-Part IV. - Richard Rogers - Rem Koolhaas - Renzo Piano - Philip Johnson Define the principles for each architect and how can apply in the design. Studio work **15th lecture** Day Sketch (Concept Stage) **16th lecture** Develop initial ideas. Criticism Studio work **17th lecture** Develop ideas. Criticism Studio work **18th lecture** Preliminary Submission (concept) **19th lecture** Study the technical level of the building. Criticism Studio work **20th lecture** How can a smart building be created? Criticism Studio work	

21th lecture Prefinal Presentation (Site, Plans, Elevations, Sections, 3D-Model) **22th lecture** Develop ideas.Criticism **23th lecture** Develop ideas.Criticism **24th lecture** Final Presentation (will be determined by Exam committee) (Site, Plans, Elevations, Sections, details, perspectives, 3D-Model)	

19. Examinations:

- This syllabus may be subject to changes, i.e, we may take either longer or shorter time to finish a topic.
- Final submission will be determined by the examination committee.