



**Salahaddin University**  
**College of Engineering**  
**Architectural Department**  
**Subject: Housing**  
**Course book: 3<sup>rd</sup> stage**  
**Prepared by: Housing Staff**  
**Academic year: 2022-2023**

# Course Catalogue:

## General information

<u>1</u>	Course name	Housing
<u>2</u>	Lecturer in charge	Hadeel Alsabbagh Shna Asaad Maysa Ghazi Saya Jamal
<u>3</u>	Department/college	Architecture/Engineering
<u>4</u>	contact	E-mail: <a href="mailto:hadeel.eshaq@su.edu.krd">hadeel.eshaq@su.edu.krd</a> Tel. 07703068893 E-mail: <a href="mailto:maysa.danoon@su.edu.krd">maysa.danoon@su.edu.krd</a> Tel. 07504991688
<u>5</u>	Time (hr./week)	[(Theory: 2 hr.) – (Practical: 2 hr.)]/week
<u>6</u>	Office hours	Availability of the lecturer to the student during the week

1- Hadeel Alsabbagh: I have a B.SC degree in architectural engineering, graduated from college of Engineering- Architectural department /Mosul university 2001, and completed my master's study at the university of Baghdad to get a master's degree in urban and regional planning 2005. Since 2006, I have been working at the university of Salahaddin /Department of Architecture.

**Area of Interest:** Spatial Analysis by using Space Syntax Theory& GIS application, Urban Mobility System and Social Behavior Studies in the Built Environment.

2- Maysa Ghazi: I have a B.SC degree in architectural engineering, graduated from college of Engineering- Architectural department /Mosul university in 2000 and in the fourth sequence on the group , I worked about two years in the United nations organizations-Erbil , since 2004 I am working as a lecturer in Salahaddin university-college of engineering as a facilitator , in 2020 I have achieved the master's degree with a grade of excellence from Salahaddin university- college of engineering and nowadays I am a staff member there.

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3- Shna Asaad: Mrs. (Shna Asaad Muhammed) , She has been graduated in 2000 at Salahaddin University /College of Engineering /Architecture Department. She has been finished master degree in 2011 in the same university and worked in the same department since 2001

4- Saya Jamal: Saya Jamal Rashid is an assistant lecturer in the Department of Architecture at Salahaddin University-Erbil . She obtained her BS in Architecture from University of Salahaddin, Erbil Iraq in 2006 as she graduated ranking first on the department during her bachelor's degree. She worked as assistant staff at Architecture department from 2012- 2016. In 2019 she continued MSc. also, in Salahaddin University with an Excellent degree

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## Course Objectives:

By the end of the course, the students will be able to understand the following topics:

- 1- The Concept housing Planning
- 2- Theories of housing planning.
- 3- Mathematical analysis of urban density.
- 4- Housing Planning in Kurdistan.
- 5- Housing Programs.
- 6- Housing Policies in Kurdistan.
- 7- Economic analysis of housing.
- 8- Urban housing standards.
- 9- Affordable housing.
10. Sustainable Terms in the housing planning.

## Students' Obligations:

- The Regular attendance is required according to the university rules.
- use of cell phone during the class is prohibited.
- Only the students who are officially enrolled can attend the class, guests and children are not admitted.
- Daily participation and conducting assignments are required.

## 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).

## Assessment Scheme:

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<b>Second Semester [Housing]</b>	
<b><u>Theoretical Part includes:</u></b>	<b>25%</b>
<b>Mid-Term Exam: 20%</b>	
<b>Quiz-1: 5%</b>	
<b><u>Practical Part includes:</u></b>	<b>15%</b>
<b>Concept+ Preliminary submission:5%</b>	
<b>Prefinal submission: 5%</b>	
<b>Final presentation: 5%</b>	
<b>Final Exam</b>	<b>40%</b>
<b>Total</b>	<b>100%</b>

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# Course Contents:

## 13 Weeks: From the 5<sup>th</sup> of February to 25<sup>th</sup> of May

Week	Theoretical Part	Practical Part	Tasks for students
1 <sup>st</sup> Week	Coursebook + The concept of Housing Planning. <u>M.Hadeel</u>	Introduction of the Practical Project (Residential Neighborhood Design) + (Groups, locations). <u>The staff</u>	Starting site analysis, linked with boundary identification.
2 <sup>nd</sup> Week	Urban Densities (Mathematical Analysis of residential zones). <u>M. Hadeel</u>	Preparation of locations maps (site corrections). <u>The staff</u>	Presenting of collecting data
3 <sup>rd</sup> Week	Types and Classification of Residential Units. <u>M. Hadeel</u>	Site Analysis (Spatial, Social, Economic, and Environmental). <u>M. Shna</u>	Presenting and discussing the data.
4 <sup>th</sup> Week	Housing Planning Techniques (Decisions Making). <u>M. Hadeel</u>	Assignment: Space Program + density calculations. <u>The staff</u>	Presenting and discussing the final results.



<b>5<sup>th</sup> Week</b>	The concept of neighborhood (Principles+ Radburn garden community). <b><u>M. Maysa</u></b>	<b>Studio work (Space &amp; Mass analysis).</b> <b><u>The staff</u></b>	<b>Oral Presentation as Groups</b>
<b>6<sup>th</sup> Week</b>	Sustainable Neighborhood. <b><u>M. Maysa</u></b>	Preliminary design (studio work). <b><u>The staff</u></b>	Oral Presentation as Groups
<b>7<sup>th</sup> Week</b>	Economic Analysis of Housing. <b><u>M. Saya</u></b>	studio work + Criticisms. <b><u>The staff</u></b>	Daily work.
<b>8<sup>th</sup>Week</b>	Housing (Problems- Programs- Policies). <b><u>M. Hadeel</u></b>	Preliminary Submission. <b><u>Evaluated by the staff</u></b>	Presenting and discussing the submission.
<b>9<sup>th</sup> Week</b>	Housing Planning & Management. <b><u>M. Shna</u></b>	Criticisms. <b><u>The staff</u></b>	Studio work.
<b>10<sup>th</sup> Week</b>	Housing Strategies (local level). <b><u>M. Saya</u></b>	Criticisms. <b><u>The staff</u></b>	Studio work.
<b>11<sup>th</sup> Week</b>	Sustainable Housing Development (SHD). <b><u>M. Maysa</u></b>	Prefinal Submission. <b><u>Evaluated by the staff</u></b>	Presenting and discussing the submission.
<b>12<sup>th</sup> Week</b>	Housing Theories. <b><u>M. Saya</u></b>	Criticisms. <b><u>The staff</u></b>	Studio work.
<b>13<sup>th</sup> Week</b>	Affordable Housing. <b><u>M. Shna</u></b>	Final Submission. <b><u>Evaluated by the staff</u></b>	Presenting and discussing the submission.

## Course Reading List:

### Main Reference

1. Shane Phillips. 2020. The Affordable City: Strategies for Putting Housing Within Reach (and Keeping it There).
2. Rory Hearne. 2020. Housing Shock: The Irish Housing Crisis and How to Solve It.
3. Wendell E. Pritchett, Vincent J. 2021. Reina, Susan M. Wachter Perspectives on Fair Housing.
4. Thomas H. Russ, "Site Planning and Design Handbook", IBT, McGraw-Hill, United State of America, 2002.
5. الهيتمي, صبري فارس " جغرافية المدن " دار صفاء للنشر والتوزيع, الطبعة الاولى , عمان , 2002.
6. Polservice , "Housing Technical Standards and Codes Of Practice For Iraq". Warsaw- Poland 1982.
7. Robert Steuteville 2018, 25 Great Ideas of New Urbanism.

The practical study involves designing the neighborhood with supporting facilities (social infrastructure), the design should follow the following procedures:

1. Preparing groups, each group includes (maximum 3 students).
2. According to the first semester data collection, each group should provide a summary of the current situation to compare it with the planning standards.
3. The shortage of housing and social infrastructure will be known.
4. Mathematical analysis should be applied to test some indicators such as (GRD, NRD, open area %, built-up area, social infrastructure area...etc.)
5. Site correction will be carried out according to the data obtained.
6. Zoning phase, each group should prepare a preliminary site zoning diagram showing housing types, urban network, facilities locations, and basic concepts.
7. Transform the sketch into a scale to deal with a real urban system.
8. All projects must follow the design principles presented in the theoretical part, and all groups follow the sustainable design of the neighborhood (**UN-Habitat**)

***Final exam will be determined by the exam board.***

**Note:** This syllabus may be subject to changes, i.e, we may take either longer or shorter time to finish a topic.