



Salahaddin University
College of Engineering
Architectural Department

Subject: City Planning

Course book: 3rd stage

Lecture's name: City Planning Staff

Academic year: 2022-2023

Course Catalogue:

General information

<u>1</u>	Course name	City Planning
<u>2</u>	Lecturer in charge	Hadeel Al-Sabbagh Maysa Ghazi Siham Musher
<u>3</u>	Department/college	Architecture/Engineering
<u>4</u>	contact	E-mail: hadeel.eshaq@su.edu.krd Tel. 07703068893 E-mail: maysa.danoon@su.edu.krd 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
<u>7</u>	Lecturers' academic profile	1- <u>Hadeel Al- Sabbagh</u> : 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 Slahaddin/Department of Architecture. Area of Interest: Spatial Analysis by using Space Syntax Theory& GIS application, Urban Mobility System and

		<p>Social Behavior Studies in Built Environment.</p>
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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.

Course Objectives:

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

- 1- The Concept of city planning & Levels of Planning.
- 2- Theories of internal composition of the city.
- 3- Sustainable Planning.
- 4- Rational Decision Making.
- 5- Smart Growth Theory.
- 6- Theory of Transportation planning.
- 7- Sustainable mobility system in the city.
- 8- The value of Sustainable urbanization.

9- GIS and Urban Planning.

Course Learning outcomes:



At the end of this course, the students will be able to:

1. Identify and recognize a theoretical background about city planning and standards.
2. Create the project space program in term of required facilities and its areas.
3. Analyzing the selected site plans (for implementing their project) in term of topography, environmental aspects and the accessibility to be integrated in the design process as well as applying the required site corrections.
4. Inspire their initial design concept from the updated – implemented similar projects and the theoretical background from the theoretical lectures.

5. Designing the movement axes and movement net-work for both pedestrians and vehicles.
6. Allocating and designing the required land use in term of residential, educational, recreational and health-care facilities of the residential neighborhood.
7. Determining and allocating the required open urban spaces depending on recognized standards and codes to create and achieve both functional and aesthetic values in the final design.

Students' Obligations:

- Regular attendance is required according to the university rules.
- The use of mobile 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:

Firt Semester [City Planning]	
Theoretical Part includes: <u>Mid-Term Exam: 20%</u> <u>Quiz-1: 5</u> <u>Assignment: 5</u>	30%
Practical Part includes: <u>Space Program: 5%</u> <u>Similar Example: 5%</u> <u>Preliminary presentation: 5%</u> <u>Pre-final presentation: 5%</u> <u>Oral discussions: 5%</u> <u>Final presentation: 5%</u>	30%
Final Exam	40%
Total	100%

Course Contents:

12Weeks: From the 1 st of February to 1st of May			
Week	Theoretical Part	Practical Part	Tasks for students
1 st Week	<u>Part-1.</u> The Concept of City Planning. <u>Part 2.</u> Levels of Planning.	Introduction about site analysis.	Starting site analysis, linked with boundary identification.
2 nd Week	Theories of internal composition of the city (Burgess model, Hoyt model, Harris and Ullman Model)	Similar examples analysis.	Presenting of analyzed similar examples of min. three designed neighborhoods.
3 rd Week	Sustainable Planning (Part I).	Mathematical analysis of urban density of the selected zones.	Presenting and discussing the analyzed data.
4 th Week	Sustainable Planning (Part II).	Mathematical analysis of urban density of the selected zones	Presenting and discussing the analyzed data.
5 th Week	Rational Decision-Making <u>Part 1.</u> Goals Achievement Matrix: GAM). <u>Part 2.</u> Cost & Benefits Analysis	Discussing the alternative proposals which includes social infrastructure analysis.	Presenting and discussing the proposals.
6 th Week	Urban Planning Technics: SWOT analysis.	Preliminary submission.	Presenting and discussing the submission.
7 th Week	Smart Growth Theory.	Design development through criticism.	Daily work.
8 th Week	Theory of Transportation planning.	Design development through criticism.	Daily work.

9th Week	Traffic Stream Characteristics. -Microscopic Parameters -Macroscopic Parameters	Pre-final submission that includes all the requirements of urban net-work analysis, open spaces analysis and mass analysis.	Presenting and discussing the submission.
10th Week	Sustainable mobility system in the city (Strategies)	Design development through criticism.	Daily work.
11th Week	Part 1. The value of Sustainable urbanization.	Design development through criticism.	Daily work.
12th Week	Part 2. The value of Sustainable urbanization.	Design development through criticism.	Daily work.
13th Week	GIS and Urban Planning.	Design development through criticism.	Assignment
14th Week	Spatial Analysis Connectivity & Accessibility	Final Submission.	Presenting and discussing the submission.

Course Program:

Practical Part: 2hrs.

According to the planning standards (UN-Habitat, Iraqi standards), all locations will be used to solve planning problems in the selected zones in Erbil City. The strategy describes how urban planning can contribute towards creating urban environments that entice people to want to live, work, play, visit and invest here. It includes a range of actions designed to achieve the design aspirations for its urban places. Urban planning projects should meet community needs. The

outcomes represent the things that are important to our communities and help guide municipality decision making.

1. The design should follow Polservice and UN-Habitat standards.
2. The design should apply the principles of sustainability in terms of Environment, Social, and Economy.
3. The design should meet the requirements of the selected zones.
4. Mathematical analysis of urban planning should be applied in the study.
5. Mid-term plan should be applied within (10years).

Course Reading List:

Main Reference

1. DAN CRUICKSHANK," **A History of Architecture**", Architectural press is an imprint of Elsevier Linacre house, Jordan Hill, Oxford OX28DP. UK.2000.
2. ELEANOR SMITH MORRIS, **British Town Planning and Urban Design**", Addison Wesley Longman, England 1997.
3. GALLION EISNER ,"**The urban Pattern** ",6th Edition, United State of America,1993.
4. Thomas H.Russ," Site Planning and Design Handbook", IBT, McGraw-Hill , United State of America,2002.
- 5- الهييتي, صبري فارس " جغرافية المدن " دار صفاء للنشر والتوزيع,الطبعة الاولى , عمان .2002,
6. Alexander R.Cuthbert , "The Form Of Cities ", Blackwell publishing Ltd.UK.2006.
7. Polservice ,"Housing Technical Standards and Codes Of Practice For Iraq". Warsaw- Poland 1982.
8. Robert Steuteville 2018, 25 Great Ideas of New Urbanism.

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.