



Department of Architecture

College of Engineering

Salahaddin University – Hawler

Subject: principles of planning

Course Book –Year 2

1st semester

Lecturer's name:

Dr. Muhanad Rasam (Lecturer, PhD)

Shna Asad (Assistant Lecturer, M.Sc.)

Academic Year: 2022 -2023

Course Book

1. Course name	Principles of Planning
2. Lecturer in charge	Dr.Muhanad Rasam, (Lecturer, PhD)
3. Department/ College	Architecture/ Engineering
4. Contact	E-mail: mohanad.rassam@su.edu.krd Tel: 07504453934 Shna.muhammed@su.edu.krd . Tel: 07504490742
5. Time (hr. / week)	[(Theory: 2hr) – (Practical: 2hr)]/week
6. Office hours	
7. Course overview:	This subject is part of architectural design as sequent of comprehensive urban design teaching through five-year study of architecture. The importance of this subject, which is based on the studio format, is that a comprehensive problem is given to students who first analyse it and then, through a synthetic process, reach a design scheme. Parallel to studio work, theory through lectures help to deliver information and knowledge concerning design standards, criteria and design methods, case studies exemplifies the studies of existing completed neighbourhoods and towns, delivering information either on the urban forms, or on the design streets itself, or on how a planner faced and solved specific problems.
8. Course Objective:	<ol style="list-style-type: none"> 1. Collecting information and Knowledge about city planning, historical background and main principles of planning urban areas through theory and case studies. 2. Identifying the principle data in theory and practice through studying similar examples of different cities and updated case studies. 3. Learning how to analyse the existing data for a specific site integrated with the proposed requirements and concept. 4. How to specify the problems from general information and to adopt the design method for the required functions and real feasible project. 5. Prepare a project program and space allotment. 6. Create design concept on the understanding of other new updated concepts in the discipline; this should match the students' site plan . 7. The students work should include deep understanding of the subject in combination with others practices and viewpoint with student specialty in the final product. 8. Multi stage development of plan until final presentation.
9. Student's Obligation	

- 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.

10. Forms of Teaching:

These lectures are prepared to help students to improve their urban planning skills to present their ideas as best as possible.

Forms of teaching will be identified according to students needs using:

PowerPoint presentation for theoretical part

White Board

Group discussion

Individual Feedback

Studio work

Homework

Using AutoCAD and 3D Program to rendering and presentation

Projects Hand in (Daily and Presentation in different stages)

11. Assessment Scheme

First Semester [Student Efforts 40%]

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| • Theory Exam (midterm exam) | 10% |
| • Similar example, Site analysis, Report, Daily work, and Day sketch | 5% |
| • Prelim | 4% |
| • Pre-Final | 6% |
| • Final | 15% |

12. Course Reading List:

Main Reference

- Carmona, Matthew,; Tiesdell, Steve; Heath, Tim; Oc, Taner, **“Public Spaces Urban Spaces, The Dimensions of Urban Design”** 2nd ed, Architectural Press, Oxford, 2010.
- Cluskey, Jim. **“ Road Form and Townscape”** Architecture Press, London, 1979.
- Donald Watson **“Time-Saver Standards for Urban Design”**, February 21, 2003.
- Gordon Cullen , **“The Concise Town Scape”**, Architectural Press, 1961.
- Hillier, Bill & Hanson **“ The Social Logic of Space”**, Cambridge, Cambridge University

Press 1984.

- Krier, Rob, **“Urban Space”**, Forewarded by Colin Rowe, New York: Rizzoli, 1979.
- Larice, Michael, and Elizabeth Macdonald, eds., **“The Urban Design Reader”**, Routledge, Urban Reader Series, 1st edn, London: Routledge, 2006.
- Lynch, Kevin **“ A Theory of Good City Form”**, Cambridge, Massachusetts, The MIT Press, London 1981.
- Lynch, Kevin. , **“ The Image of the City “**, Cambridge, Massachusetts, The MIT Press, London, 1960.
- Morris, A.E.J., **“History of Urban Form, Before the Industrial Revolutions”**, 3rd ed, Essex: Longman Group UK Ltd, 1994.
- Rapoport, A., **“Human Aspects of Urban Form, Towards a Man-Environment Approach to Urban Form and Design”**, Oxford: Pergamon Press Ltd, 1997.
- Rapoport, Amos. , **“Human Aspects of Urban Form – Towards a Man Environment approach to urban form and design”**, Pergamon Press, U.K, 1977.
- Rossi, Aldo, **“The Architecture of the City”**, First, Cambridge: The MIT Press, 1982.
- Salingaros, Nikos A,” **Urban Space and its Information Field “**, Journal of urban design , Vol. 4 – Division of Mathematics , University of Texas at an Antonio, USA 1999 .
- Spreiregen, P.D. **“Urban Design: The Architecture of Towns and Cities”**, Mc- Graw Hill, N.Y, 1965.

Course Book

Week	Theoretical Part	Practical Part
1st Week	<p>What is Urban Planning?</p> <p>- Theoretical knowledge</p> <p>Differentiations and integrations to other fields,</p>	<p>Urban Planning, Introduction</p> <ul style="list-style-type: none"> ➤ Definition ➤ History ➤ Sustainable development and sustainability
2nd Week	<p>Land Use Planning and The Environmental Factors:</p> <ul style="list-style-type: none"> ➤ Definition ➤ Functions 	<p>Social, Economical and Historical factors affecting the city</p>

	<ul style="list-style-type: none"> ➤ Geographic information system definition GIS ➤ Spatial decision support system SDSS ➤ Environmental Factors 	
3rd Week	Land Use Planning Typologies <ul style="list-style-type: none"> ➤ Types of planning (six main typologies) Comprehensive, Systems, Democratic, Advocacy & Equity, Strategic and Environmental planning typologies. ➤ Today successful planning ➤ Current land use planning processes 	Reports presentation, team working practice, (group workshop) on Historical cities (six examples) Part one
4th Week	The Urban to Rural Transect Theory <ul style="list-style-type: none"> ➤ Definition of Zones ➤ Transect continuum character 	Reports presentation, team working practice, (group workshop) on Historical cities (six examples) Part two
5th Week	Smart Growth Theory <ul style="list-style-type: none"> ➤ Principles of smart growth theory ➤ Compact Neighbourhoods ➤ Transect- oriented development 	Zoning and Regulation of Land Use Definition and purpose Scope Types in general (Five types) Standard Euclidean, Performance, Incentive and based form code zoning methods.
6th Week	Form Based Code Zoning (FBC) <ul style="list-style-type: none"> ➤ Scope ➤ History ➤ Emergence of modern FBC ➤ Recent developments ➤ Components of FBC 	Report and review

	<ul style="list-style-type: none"> ➤ Building form standards ➤ Implementation 	
7th Week	City Models (part one) <ul style="list-style-type: none"> ➤ Concentric zone model ➤ Sector Model 	Reports presentation, team working practice, (group workshop on applications of city models) six examples; Part one
8th Week	City Models (Part two) <ul style="list-style-type: none"> ➤ Multiple Nuclei Model ➤ Liner city model ➤ Irregular pattern model 	Semester Examination
9th Week	City Models (Part three) <ul style="list-style-type: none"> ➤ Grid Iron model ➤ Core frame model ➤ Urban Realm model ➤ Garden City model 	Reports presentation, team working practice, (Workshop on residential setting design) six groups
10th Week	Intelligent Urbanism Principles	Reports presentation, team working practice, (Workshop on residential setting design) six groups
11th Week	Types of Roads (Vehicular City Systems)	Reports presentation, team working practice, (Workshop on residential setting design) six groups
12th Week	Pedestrians and Neighborhood Patterns Privacy in urban pattern Synthetic characters of urban space(theories and practice)	Reports presentation, team working practice, (Workshop on residential setting design) six groups
13th Week	Safety in Urban Planning	Reports presentation, team working practice, (group workshop on applications of city models) six examples; Part two

14th Week	Residential Land Use (Neighborhood Types) Residential Standards Social and technical infrastructure Housing types and criteria	Final Reports presentation Evaluation, team working practice, (Workshop on residential setting design) six groups
15th Week	Housing Subdivision Design Considerations of Subdivision (Part one) <ul style="list-style-type: none"> ➤ Design Considerations of Subdivision(Part two) 	Feedback and Final Report Sample questions and how to answer <ul style="list-style-type: none"> ➤ Discussion in General issues related to the subject ➤ Objections review