

Department of Architecture

College of Engineering Salahaddin University – Hawler Subject: Principles of Planning

Course Book – Year 2

1st semester (Fall Semester)

Lecturer's name: Dr. Mohanad Rasam (Lecturer, PhD) Shna Asaad (Assistant Lecturer, M.Sc.)

Academic Year: 2023 -2024

Course Book

1. Course name	Principles of Planning	
2. Lecturer in charge	Dr.Mohanad Rasam, (Lecturer, PhD)	
3. Department/ College	Architecture/ Engineering	
4. Contact	E-mail:mohanad.rassam@su.edu.krd	
	<u>Tel:07504453934</u>	
	Shna.muhammed@su.edu.krd.	
5 Time (hr / week)	[(Theory 2hr) (Dreatical 2hr)]/weak	
S. Thire (III. / Week)		
6. Office hours	The Lectures are Available to enhance all student (5 days a	
	week -nearby 30 hours in a week) at their offices inside the	
	college and by contacting after official time if it necessary.	
7. Course code	Principles of Planning	
8. Teacher's academic profile	 (Nonanad Rasam) 1 graduated (bachelor degree) from Mosul university at 1984 then started work as junior architect for 3 years, by 1987 then started as junior Eng. I had been appointed as engineer in university of Salahaddin until 1991 then started my master degree graduation in university of technology which completed by 1994 then continued work as lecturer assistant 1994- 2000 in university of Salahaddin. I started my PHD studies by 1998 till 2004 in university of Baghdad when I got the title of lecturer in university of Salahaddin till now.I have continues practices in construction fields concerning design and projects executions. (Shna Asaad Muhammed), I have been graduated in 2000 at Salahaddin University /College of Engineering /Architecture Department. I have been finished master degree in 2011 in the same university and worked in the same department since 2001, I worked as assistant of head in architecture department for nearly 4 years and one of the teaching staff as assistant lecture till now. I taught many subjects in the same department (Architecture design 1st stage, Architecture design 2nd stage, Architecture design 3rd stage, Architecture design 4th stage, City planning ,Graphic drawings, Freehand drawings ,Urban design , planning principles ,Landscape Design, Conservation and Rehabilitation of heritage buildings). 	

9. Keywords	Urban Planning, Land Use Planning, History of planning,
·	Types of planning, Historical cities, city models, Zoning,
	Regulation, Building form standards, Regulation of Land
	Use, Subdivision

10. 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.

11. Course Objective:

- 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.

12. 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.

13. 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)

14. Assessment Scheme

Fall Semester [Student Efforts 40%]

•	Theory Exam (midterm exam)	20%
٠	Daily work, and quizzes	5%
٠	Report,	15%
•	Final Exam	60%

- 15. **Student learning outcome:** The primary outcomes of this course are to introduce students to prevailing ideas in the field of (Planning) and to the anticipated challenges that will likely affect the evolution of cities. By the end of the course students will expect to gain the following:
- 1. Introducing new models and theories which involve the latest literatures in city planning sciences .
- 2. Direct experience in understanding, interpreting and applying theories of urban planning
- 3. An understanding of urban planning & urban design as a dynamic force integral to the evolution of cities.
- 4. An introduction to the language and terminology of land use and urban planning
- 5. A heightened awareness of the details of the built environment to foster lifelong design learning.
- 6. To familiarize the students with the movement structure of a city and planning concepts, standards, methods, procedures for sustainable mobility system and applying on the practical part of the lectures.
- 7. To provide students with skills and knowledge how to treat with the design of spaces, knowing the relation between urban design and architectural design.

Ma	in Reference
	Carmona, Matthew,; Tiesdell, Steve; Heath, Tim; Oc, Taner, "Public Spaces Urban
	Spaces, The Dimensions of Urban Design" 2 nd ed, Architectural Press, Oxford, 2010.
۶	Cluskey, Jim. "Road Form and Townscape" Architecture Press, London, 1979.
۶	Donald Watson "Time-Saver Standards for Urban Design", February 21, 2003.
۶	Gordon Cullen , "The Concise Town Scape", Architectural Press, 1961.
۶	Hillier, Bill & Hanson " The Social Logic of Space", Cambridge, Cambridge University
	Press 1984.
۶	Krier, Rob, "Urban Space" , Forewarded by Colin Rowe, New York: Rizzoli, 1979.
۶	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.

Course Book

Week	Theoretical Part	Practical Part
1 st Week	 What is Urban Planning? Theoretical knowledge Differentiations and integrations to other fields, Land Use Planning and The Environmental Factors: Definition Functions Geographic information system definition GIS Spatial decision support system SDSS Environmental Factors 	 Urban Planning, Introduction Definition History Sustainable development and sustainability Social, Economic and Historical factors affecting the city
3 rd Week	 Land Use Planning Typologies 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
4 th Week	The Urban to Rural TransectTheory> Definition of Zones> Transect continuum character	Reports presentation, team working practice, (group workshop) on Historical cities (six examples) Part two
5 th Week	 Smart Growth Theory Principles of smart growth theory Compact Neighbourhoods Transect- oriented 	Zoning and Regulation of Land Use Definition and purpose Scope

	development	Types in general (Five types)
		Standard Euclidean, Performance, Incentive and based form code
		zoning methods.
6 th Week	Form Based Code Zoning (FBC)	Report and review
	> Scope	
	History	
	Emergence of modern FBC	
	 Recent developments 	
	Components of FBC	
	Building form standards	
	 Implementation 	
7 th Week	City Models (part one)	Reports presentation,
	Concentric zone model	team working practice,
	 Sector Model 	(group workshop on
		applications of city
		models) six examples; Part
		Une
8 th Week	City Models (Part two)	Semester Examination
	Multiple Nuclei Model	
	Liner city model	
	 Irregular pattern model 	
9 th Week	City Models (Part three)	Reports presentation, team
	 Grid Iron model 	working practice, (Workshop on
	 Core frame model 	residential setting design) six
	Urban Realm model	groups
	 Garden City model 	
10 th Wool	Intelligent Urbanism Principles	B anarts presentation team
IU WEEK		working practice. (Workshop on
		residential setting design) six
		groups
11 th Week	Types of Roads (Vehicular City	Reports presentation, team
	Systems)	working practice, (Workshop on
		residential setting design) six

		groups
12 th Week	Pedestrians and NeighbourhoodPatternsPrivacy in urban patternSynthetic characters of urban space(theories and practice)	Reports presentation, team working practice, (Workshop on residential setting design) six groups
13 th Week	Safety in Urban Planning	Reports presentation, team working practice, (group workshop on applications of city models) six examples; Part two
14 th Week	Residential Land Use (Neighbourhood 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
15 th Week	 Housing Subdivision Design Considerations of Subdivision (Part one) ➢ Design Considerations of Subdivision(Part two) 	 Feedback and Final Report Sample questions and how to answer ➢ Discussion in General issues related to the subject ➢ Objections review