

University of Salahaddin

College of Engineering

Geomatics & Surveying Department



COURSE BOOK

URBAN PLANNING

4th STAGE

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Objectives:

The students are able to understand the following points:

- 1- History of Cities and city planning.
- 2- The city formation patterns.
- 3- The theories of internal composition of the city.
- 4- City planning process methodology.
- 5- Rational Decision Making.
- 6- The land use planning.
- 7- Zoning in city planning.
- 8- The land use patterns.
- 9- Urban Density analysis.
- 10- Theory of Transportation planning.
- 11- Road system.
- 12- Sustainable mobility system in the city.
- 13- The site selection of Residential area.
- 14- Planning and Design of the Residential area.
- 15- Social infrastructure analysis in the residential zone.
- 16- Planning support system.
- 17- GIS and Urban Planning.

Forms of Teaching

Different forms of teaching will be used to reach the objectives of the course: power point presentations for the head titles and definitions and summary of conclusions, classification of materials and any other illustrations, besides worksheet will be designed to let the chance for practicing on several aspects of the course in the classroom, furthermore students will be asked to prepare research papers on selective topics and summarize articles contents published in English into either Kurdish or Arabic language, those articles need to be from printed media or internet articles. There will be classroom discussions and the lecture will give enough background to translate, solve, analyze, and evaluate problems sets, and different issues discussed throughout the course.

Grading

First Course: 20%

*Theoretical Part = 15 marks

*Practical Part = 5 marks

Second Course: 20%

*Theoretical Part = 15 marks

*Practical Part = 5 marks

Final Exam. = 60%

Course material

Required book:

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- الهيتهى , صبرى 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.

Course programme

FIRST SEMESTER: URBAN PLANNING

2 hours for Theoretical Study /week

WEEK NO.	THEORETICAL STUDY	ACTIVITIES
1 st week	History of Cities and city planning: 1- Nile Vale Civilization. 2- Mesopotamian Civilization.	Land Use Project Identifying the issues and stating the goals.
2 nd week	1-Greece Civilization. 2- Rome & Roman Empire.	Data collection include: 1-Population & Housing. 2-Health & Education. 3- Parks & Recreation. 4- Road System. 5- Other Land use.
3 rd week	1- The Medieval Town. 2- Industrial City.	Discussing the data collection for every zone which adopted.
4 th week	The Modern Cities: 1- Visionary or Utopian City. 2- Institutionalized City planning. 3- Garden City(Ebenezer Howard)	Discussing the data collection.
5 th week	The City Formation Patterns: Gridiron Plan./Radial city plan./Linear city plan./ Organic plan.	Final Data collection

6 th week	The Theories Of Internal Composition Of the City. 1- Centralized Circle Theory. 2- Sector Model.	Data Analysis include: population forecasting, and future housing needs. (Social infrastructure Analysis).
7 th week	EXAM	Prelim /Data Analysis
8 th week	3- Multiple Nuclei Model. 4- Central Place Theory. (Christaller's Central Place Theory- CPT).	Data Analysis
9 th week	City Planning Process Methodology: 1- The Level Of Planning.	Prefinal / Data Analysis
10 th week	2- Comprehensive Planning. 3- Comprehensive Planning Process.	Data Analysis
11 th week	Rational Decision Making: 1- Goal Achievement Matrix (GAM). 2- Cost & Benefits Analysis (CBA).	Final / Data Analysis
12 th week	The Land Use Planning (LUP) 1- What is land use planning. 2- The land use Consideration. 3- Factors affecting the change in land use within cities.	Put the Strategies

13 th week	Zoning in city planning	Discussing the strategy
14 th week	The land use Patterns	Pre final/ the strategy
15 th week	Reports Discussion	Final Strategy

SECOND SEMESTER:

2 hours for Theoretical Study/week

WEEK NO.	THEORETICAL STUDY	PRACTICAL STUDY (Project)
1 st week	- Urban Density analysis.	Transportation Project Identifying the project and stating the goals.
2 nd week	- Theory of Transportation planning.	Data collection include: Traffic Volume on selected roads in Erbil City.
3 rd week	-Road system. -Sustainable mobility system in the city.	Discussing the data collection.

4 th week	-The site selection of Residential area.	Data Analysis
5 th week	-Planning and Design of the Residential area.	Data Analysis
6 th week	-Social infrastructure analysis in the residential zone.	Calculation PHF
7 th week	EXAM	Prelim. Submission
8 th week	-Planning support system.	Discussing the results
9 th week	-GIS & Urban Planning.	Pre-final
10 th week	-Spatial Analysis_ Concepts& Definitions	Discussing the projects

12 th week	-Connectivity, Accessibility, and Centrality.	Discussing the projects
13 th week	-Reports Discussion.	Discussing the project Final results
14 th week	-Reports Discussion.	Discussing the projects Final results

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.