Date:	Examination No.:	Version:2022-2023	Start:4/9/2022
Module Name - Code	Principles of Planning 4113		
Module Language:	English		
Responsible:	Dr.Mohanad Gorge Rasam		
Lecture (s):	Dr.Mohanad Gorge Rasam & MSc. Shna Asaad Muhammed		
College:	College of Engineering – Salahaddin University-Erbil		
Duration:	15 week – 1 Fall semester		
Course outcomes:	The primary outcomes of this course is 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.		
Course Content:	**Week 1:** **1st Lecture: What is Urban Planning?** ➢ Theoretical knowledge ➢ Differentiations and integrations to other fields, urban design, architecture, building design, built environment, socioeconomic disciplines, History, esthetics, cultural studies ….. etc **2nd Lecture: Urban Planning, Introduction** ➢ Definition		

- History
- Sustainable development and sustainability

Week 2:

1st Lecture: Land Use Planning and The Environmental Factors:

- Definition
- Functions
- Geographic information system definition GIS
- Spatial decision support system SDSS
- Environmental Factors

2nd Lecture: Social, Economical and Historical factors affecting the city.

Week 3:

1st Lecture: Reports presentation, team working practice, (group workshop) on Historical cities (six examples) Part one

2nd Lecture: Reports presentation, team working practice, (group workshop) on Historical cities (six examples) Part two

Week 4:

1st Lecture: 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

2nd Lecture: The Urban to Rural Transect Theory

- Definition of Zones
- Transect continuum character

Week 5:

1st Lecture: Smart Growth Theory

- Principles of smart growth theory
- Compact Neighborhoods
- Transect- oriented development

2nd Lecture: 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.

Week 6:

1st Lecture: Form Based Code Zoning (FBC)

- Scope
- History
- Emergence of modern FBC
- Recent developments
- Components of FBC
- Building form standards
- Implementation

2nd Lecture: City Models (part one)

- Concentric zone model
- Sector Model

Week 7:

1st Lecture: City Models (Part two)

- Multiple Nuclei Model
- Liner city model
- Irregular pattern model

2nd Lecture: City Models (Part three)

- Grid Iron model
- Core frame model
- Urban Realm model
- Garden City model

Week 8:

1st Lecture: Report and review

2nd Lecture: Reports presentation, team working practice, (group workshop on applications of city models) six examples; Part one

Week 9:

1st Lecture: Reports presentation, team working practice, (group workshop on applications of city models) six examples; Part two

2nd Lecture: Intelligent Urbanism Principles

Week 10:

1st Lecture: Types of Roads (Vehicular City Systems)

2nd Lecture: Pedestrians and Neighborhood Patterns

- Privacy in urban pattern
- Synthetic characters of urban space(theories and practice)

Week11:

1st Lecture: Safety in Urban Planning

2nd Lecture: Residential Land Use (Neighborhood Types)

- Residential Standards
- Social and technical infrastructure
- Housing types and criteria

Week 12:

1st Lecture: Housing Subdivision

- Design Considerations of Subdivision (Part one)

2nd Lecture: Housing Subdivision

- Design Considerations of Subdivision(Part two)

Week 13:

1st Lecture: Exam

2nd Lecture: Reports presentation, team working practice,

(Workshop on residential setting design) six groups

Week 14:

1st Lecture: Reports presentation, team working practice, (Workshop on residential setting design) six groups

	2nd Lecture: Reports presentation, team working practice, (Workshop on residential setting design) six groups **Week 15:** **1st Lecture: Final Reports presentation Evaluation, team working practice, (Workshop on residential setting design) six groups** **2nd Lecture: Feedback and Final Report** Sample questions and how to answer ➢ Discussion in General issues related to the subject ➢ Objections review
Literature:	-Donald Watson **"Time-Saver Standards for Urban Design",** 2003. - Cluskey, Jim. " **Road Form and Townscape**" Architecture Press, London, 1979. - Lynch, Kevin " **A Theory of Good City Form**", Cambridge, Massachusetts, The MIT Press, London 1981. - Morris, A.E.J., **"History of Urban Form, Before the Industrial Revolutions"**, 3rd ed, Essex: Longman Group UK Ltd, 1994. - 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. - Spreiregen, P.D. "Urban **Design: The Architecture of Towns and Cities",** Mc- Graw Hill, N.Y, 1965.
Type of Teaching:	2 hrs in lectures 2 hrs Studio working.
Pre-requisites:	None
Preparation Modules:	
Frequency:	Fall Semester
Requirements for credit points:	For the award of credit points, it is necessary to pass the module exam. It contains: For the award of credit points it is necessary to pass the module exam. The module exam (practical and theoretical) contains: [Written ( ) min for theoretical] [Written ( ) min for practical] Two examination during the academic semester, Assignments and Final examination. **Student's attendance is required in all classes**.
Credit point:	4

Grade Distribution:	The following grade system is used for the evaluation of the module exam: The module exam is based on the summation of two categories of evaluations: **First: (40%)** of the mark is based on the academic semester effort which includes - one examination during the academic semester = 10%. - Assignments & Report = (5%). - Practical study (Design a Neighborhood) = (15%) **Second: (60%)** of the mark is based on final examination that is comprehensive for the whole of the theoretical study materials reviewed during the academic semester.
Work load:	The workload is ( ) hrs. It is the result of ( ) hrs. attendance and ( ) hrs. self-studies (Assignments, preparation for exam and applications).