



Department of Architecture
College of Engineering
University of Cihan- Sulaimaniya

Subject: Architecture & Environment

Course Book – Year: Fourth Stage (2023-2024)

Lecturer's name: Sarko Hassan Sleman

Academic Year: 2023/2024 – First Semester

Course Book

1. Course name	Architecture & Environment
2. Lecturer in charge	Lecturer: Sarko Hassan Sleman
3. Department/ College	Architectural Engineering
4. Time (in hours) per week	Two hours (Theory)
5. Office hours	Monday: 09:00- 11:00 AM
6. Course code	
7. Teacher's academic profile	Assistant Lecturer, BSc. Architectural Engineering – Cihan University- Erbil. M. Arch. Design & Architecture –Cyprus International University.
8. Keywords	All types of building elements, foundation, wall, stair, openings, roof, floor, Finishing.
9. Course overview:	<ul style="list-style-type: none"> • The course trying to explore how an adequate building can minimize negative impact on the climate, It also supporting students’ learning on how the built environment in different climates is affected by the microclimate, vegetation, orientation etc, and support the students’ learning on how building affect energy use and daylight in buildings and the impact of people's attitude and behaviour towards climate and energy issues. • The course Explain that in order to design a building that offers maximum user comfort while using the least amount of energy; an integrated design process needs to be adopted where architectural design and building services technology are part of one coordinated holistic system. • The course deals with the relation between the built environment and climate issues on micro and macro level as well as their relation to energy use. Through creative assignments, it highlights and develops ways to enhance the built environment respond to nature, with climate as the basic parameter of design.
10. Course objective:	<p>1-In order to equip the students with the scientific background required to design climate responsive buildings, a clear understanding of the various climate elements, radiation, air temperature, humidity and wind speed as tools of design is intended.</p> <p>2-Introducing, the Modern Science of Climatology in the context of climate and weather as determinants of Design and Form of Buildings.</p> <p>3-Understanding Climate and its impact on architectural design, fundamentals of climatology and environmental studies.</p>

- 4-The provision for comfort, health and safety is one of the most basic objectives in architecture. Developing a basic understanding of how to achieve and maintain these provisions and how to integrate them into the architectural design process.
- 5-To give students the possibility to explore how an adequate building and urban design can minimize negative impact on the climate.
- 6-To support students' learning on how the built environment in different climates is affected by the microclimate, vegetation, orientation etc. Moreover the aim is to support the students' learning on how building and urban design affect energy use and daylight in buildings.
- 7-To inform the students about human thermal comfort as an essential function of a building and its analysis and use in Architecture.
- 8-In order to equip the students with the scientific background required to design sonic responsive buildings.
- 9-Knowledge about the behavior of sound in the built environment is of vital importance to a budding architect.
- 10-The provision for comfort, health and safety is one of the most basic objectives in architecture. Developing a basic understanding of how to achieve and maintain these provisions and how to integrate them into the architectural design process.
- 11-To acquaint the students about human Sound comfort as an essential function of a building and its analysis and use in Architecture.

11. Student's obligation

Attending the lectures in order to get the Main information from the lecture text, what are written on the board, and what are said by the tauter, as well as the other supplementary obligations inside and outside the class.

12. Forms of teaching

By giving the theoretical input through the lectures, performing a limited number of site visits to certain buildings which are in the stage of construction, and presenting reports and presentations privately or within group work as well as the semester, monthly, and quiz exams.

13. Assessment scheme

Midterm Examination	%30
Paper, Quiz, Project	%10
Lab exam	NA
Final Practical Examination	NA
Final theory exam	%60

14. Student learning outcome:

- This course will help the student to understand a new comprehensive view of climate which helps him/her in increase his/ her abilities in architectural design process.
- This course will help the students to have a new ability in solving Environment problems, by understanding aspect and powers that affect the Environment in the field of architectural design.
- The students will learn the meaning of Climate, weather and the ways that the designer should use to enhance the building Environment.

15. Peer review**Main Lecturer in charged**

Sarko Hassan Sleman

Head of The Department

Tara Azad