

Ministry of Higher Education and Scientific research



**Department of Architecture**

**College of Engineering**

**University of Salaheddin**

**Subject: Architecture Design 8**

**Course Book (Year 4)**

**Lecturer's name**

- Dr. Muhanad Rasam (Lecturer, PhD)
- Dr. Mand Ibrahim Aziz (Lecturer, PhD)
- Nazik Jamal (Lecturer, M.Sc.)
- Zainab Qasim (Lecturer, M.Sc.)
- Shna Asad (Assistant Lecturer, M.Sc.)
- Nashmil Shwan (Assistant Lecturer, M.Sc.)
- Maysa Ghazi (Assistant Lecturer, M.Sc.)

**Academic Year: 2023/2024**

## Course Book

1. Course name	Architecture Design 8- 4132
2. Lecturer in charge	Dr. Muhanad Rasam (Lecturer, PhD)
3. Department/ College	Architecture/college of engineerin
4. Contact	E-mail: <a href="mailto:mohanad.rassam@su.edu.krd">mohanad.rassam@su.edu.krd</a> Tel:07504453934
5. Time (in hours) per week	[(Theory: 3 hr) – (Practical: 7 hr)]/week
6. Office hours	10 hr
7. Course code	4132
8. Teacher's academic profile	(Mohanad Rasam) I 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.
9. Keywords	Design, Theory, Concept, Site plan, Health building
10. Course overview:	<p>This subject is part of architectural design as sequent of comprehensive architectural 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 buildings, delivering information either on the building, or on the design process itself, or on how a designer faced and solved specific problems.</p> <p>Health building like (special or general hospitals, clinics or rehab centres) which concentrate on providing health environment, psychological spaces, compact and economy concepts using new building technology by adopting special technical studies that would help in realizing the semester objectives.</p>
11. Course objective:	<ol style="list-style-type: none"> <li>1. To Collect information and Knowledge about health buildings through theory and case studies.</li> <li>2. To Identify the principle data in theory and practice through studying similar works and updated case studies.</li> <li>3. To analyze the existing data for a specific site integrated with the proposed requirements and concept.</li> <li>4. To specify the problems from general information and to adopt the design method for the required functions</li> </ol>

and real feasible project.

## 12. Student's obligation

1. Regular attendance is required according to the university rules.
2. The use of mobile phone during the class is prohibited.
3. Only the students who are officially enrolled can attend the class, guests and children are not admitted.
4. Daily participation and conducting assignments are required.

## 13. Forms of teaching

These lectures are designed to help students to improve their architecture design 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

- [200-bed general hospital Project 100%]
- Similar examples, Site analysis, Report, Daily work,
- Day sketch and 15%
- Concept 10% on 15-02-2024
- Prelim 20% on 04-03-2024
- Pre-Final 25% on 08-04-2024
- Final 30%

## 15. Student learning outcome:

At the end of the semester, students would be able to cover the following points:

1. Prepare a project program and space allotment.
2. Build a design concept on the understanding of other new updated concepts in the discipline; this should match the students' site.
3. The student's work should include a deep understanding of the subject in combination with others practices and viewpoints with student's specialty in the final product.
4. Multi-stage development of design until final presentation.

## 16. Course Reading List and References:

### ▪ Main Reference

5. Malkin, Midical and central space planning, 2002.
6. Joseph De Chiara: time-saver standards for building types; McGRAW-Hill Book Company
7. Ston, British hospital and health care
8. Weeler, Hospital design and function, 1964.

### Useful references

9. Neufert ,Architects data,1980
10. Architectural record book, Hospital s clinics and health centers, 1960.
11. Redstone, Hospitals and health care facilities, 1978.

### Magazines - enter net

1. [www.greatbuilding.com](http://www.greatbuilding.com)
2. [www.arcspace.com](http://www.arcspace.com)
3. [www.m7mar.com](http://www.m7mar.com)

## 14Weeks: 15th of January 2024

<b>1<sup>st</sup> Week</b>	Historical review of hospitals, classification of health buildings	Site analysis , factors determining site capacity, environmental factors	Starting site analysis ,linked with boundary identification
<b>2<sup>nd</sup> Week</b>	Introduction and functional flow charts	Alternatives design concepts to be submitted for approval	Literature review of min. 5 hospitals with full analysis
<b>3<sup>rd</sup> Week</b>	Surgical Suite	Floor plan design	Alternatives design concepts to be submitted for approval
<b>4<sup>th</sup> Week</b>	Wards	Floor plan design	General clinic description, design work
<b>5<sup>th</sup> Week</b>	Intensive Care Units	Floor plan design matching form & structure (architectural design strategy)	Visit to main hospital, report preparation

Ministry of Higher Education and Scientific research

<b>6<sup>th</sup> Week</b>	Maternity ,Paediatric Departments	Primary plans presentation	Details of hospital visit , discussion, conclusion		
<b>7<sup>th</sup> Week</b>	Nursing Units	Design development ( case study- floor plan)	Design work		
<b>8<sup>th</sup>Week</b>	Diagnostic X-Ray Suite	Design development ( case study- floor plan)	Design work		
<b>9<sup>th</sup> Week</b>	Pharmacy	Design development ( case study- façade design)	Design work		
<b>10<sup>th</sup> Week</b>	Physical Therapy Department	Design development ( case study- façade design)	Design work		
<b>11<sup>th</sup> Week</b>	Laboratory	Design development ( case study- 3D)	Design work		
<b>12<sup>th</sup> Week</b>	Outpatient activity	Pre-final design presentation	Design work		
<b>13<sup>th</sup> Week</b>	Emergency activity	Design development (3D)	Design work		
<b>14<sup>th</sup> Week</b>	Center Sterilize Unit	Final presentation and evaluation	Design work		

### 19. Examinations:

- 1- Students should attend lectures (theoretical part and practical part).
- 2- Discussion and criticism in the studio are required in all lectures.
- 3- Homework and classwork for each lecture are required.
- 4- Similar example report and presentation.

Ministry of Higher Education and Scientific research

5- site selection report and presentation.

6- Day sketch.

7- Students should submit [Prelim, Prefinal, and Final] 200 bed general hospital

**20. Extra notes:**

**21. Peer review**