

Date:	Examination No.: 15367	Version:13/2/2023	Start: 13/2/2023																																																												
Module Name - Code	Architecture Design 8- 4132																																																														
Module Language:	English																																																														
Responsible:	Dr. Muhanad Rasam (Lecturer, PhD)																																																														
Lecture (s):	<p><b>Dr. Mand Ibrahim Aziz (Lecturer, PhD)</b></p> <p><b>Hadeel Eshaq (Lecturer, M.Sc.)</b></p> <p><b>Nazik Jamal (Lecturer, M.Sc.)</b></p> <p><b>Shna Asad (Assistant Lecturer, M.Sc.)</b></p> <p><b>Nashmil Shwan (Assistant Lecturer, M.Sc.)</b></p> <p><b>Maysa Ghazi (Assistant Lecturer, M.Sc.)</b></p>																																																														
College:	College of Engineering – Salahaddin University																																																														
Duration:	14 week – 1 semester																																																														
Course outcomes:	<ol style="list-style-type: none"> <li>At the end of the semester, students would be able to cover the following points:</li> <li>Collecting information and Knowledge about health buildings through theory and case studies.</li> <li>Identifying the principle data in theory and practice through studying similar works and updated case studies.</li> <li>Learning how to analyze the existing data for a specific site integrated with the proposed requirements and concept.</li> <li>How to specify the problems from general information and to adopt the design method for the required functions and real feasible project.</li> <li>Prepare a project program and space allotment.</li> <li>Build a design concept on the understanding of other new updated concepts in the discipline; this should match the students' site.</li> <li>The students work should include deep understanding of the subject in combination with others practices and viewpoint with student specialty in the final product.</li> <li>Multi stage development of design until final presentation.</li> </ol>																																																														
Course Content:	<p style="text-align: center;"><b>14Weeks: From the 12 of February to 1st of Jun</b></p> <table border="1"> <thead> <tr> <th>Week</th> <th>Topic</th> <th>Activities</th> <th>Outcomes</th> </tr> </thead> <tbody> <tr> <td>1<sup>st</sup> Week</td> <td>Historical review of hospitals, classification of health buildings</td> <td>Site analysis , factors determining site capacity, environmental factors</td> <td>Starting site analysis ,linked with boundary identification</td> </tr> <tr> <td>2<sup>nd</sup> Week</td> <td>Introduction and functional flow charts</td> <td>Alternatives design concepts to be submitted for approval</td> <td>Literature review of min. 5 hospitals with full analysis</td> </tr> <tr> <td>3<sup>rd</sup> Week</td> <td>Surgical Suite</td> <td>Floor plan design</td> <td>Alternatives design concepts to be submitted for approval</td> </tr> <tr> <td>4<sup>th</sup> Week</td> <td>Wards</td> <td>Floor plan design</td> <td>General clinic description, design work</td> </tr> <tr> <td>5<sup>th</sup> Week</td> <td>Intensive Care Units</td> <td>Floor plan design matching form &amp; structure (architectural design strategy)</td> <td>Visit to main hospital, report preparation</td> </tr> <tr> <td>6<sup>th</sup> Week</td> <td>Maternity ,Paediatric Departments</td> <td>Primary plans presentation</td> <td>Details of hospital visit , discussion, conclusion</td> </tr> <tr> <td>7<sup>th</sup> Week</td> <td>Nursing Units</td> <td>Design development ( case study- floor plan)</td> <td>Design work</td> </tr> <tr> <td>8<sup>th</sup> Week</td> <td>Diagnostic X-Ray Suite</td> <td>Design development ( case study- floor plan)</td> <td>Design work</td> </tr> <tr> <td>9<sup>th</sup> Week</td> <td>Pharmacy</td> <td>Design development ( case study- façade design)</td> <td>Design work</td> </tr> <tr> <td>10<sup>th</sup> Week</td> <td>Physical Therapy Department</td> <td>Design development ( case study- façade design)</td> <td>Design work</td> </tr> <tr> <td>11<sup>th</sup> Week</td> <td>Laboratory</td> <td>Design development ( case study- 3D)</td> <td>Design work</td> </tr> <tr> <td>12<sup>th</sup> Week</td> <td>Outpatient activity</td> <td>Pre-final design presentation</td> <td>Design work</td> </tr> <tr> <td>13<sup>th</sup> Week</td> <td>Emergency activity and Center Sterilize Unit</td> <td>Design development (3D)</td> <td>Design work</td> </tr> <tr> <td>14<sup>th</sup> Week</td> <td>Administration and technical services</td> <td>Final presentation and evaluation</td> <td></td> </tr> </tbody> </table>			Week	Topic	Activities	Outcomes	1 <sup>st</sup> Week	Historical review of hospitals, classification of health buildings	Site analysis , factors determining site capacity, environmental factors	Starting site analysis ,linked with boundary identification	2 <sup>nd</sup> Week	Introduction and functional flow charts	Alternatives design concepts to be submitted for approval	Literature review of min. 5 hospitals with full analysis	3 <sup>rd</sup> Week	Surgical Suite	Floor plan design	Alternatives design concepts to be submitted for approval	4 <sup>th</sup> Week	Wards	Floor plan design	General clinic description, design work	5 <sup>th</sup> Week	Intensive Care Units	Floor plan design matching form & structure (architectural design strategy)	Visit to main hospital, report preparation	6 <sup>th</sup> Week	Maternity ,Paediatric Departments	Primary plans presentation	Details of hospital visit , discussion, conclusion	7 <sup>th</sup> Week	Nursing Units	Design development ( case study- floor plan)	Design work	8 <sup>th</sup> Week	Diagnostic X-Ray Suite	Design development ( case study- floor plan)	Design work	9 <sup>th</sup> Week	Pharmacy	Design development ( case study- façade design)	Design work	10 <sup>th</sup> Week	Physical Therapy Department	Design development ( case study- façade design)	Design work	11 <sup>th</sup> Week	Laboratory	Design development ( case study- 3D)	Design work	12 <sup>th</sup> Week	Outpatient activity	Pre-final design presentation	Design work	13 <sup>th</sup> Week	Emergency activity and Center Sterilize Unit	Design development (3D)	Design work	14 <sup>th</sup> Week	Administration and technical services	Final presentation and evaluation	
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<b>Literature:</b>	<b>Main Reference</b> 1 Malkin, Midical and central space planning, 2002. 2 Joseph De Chiara: time-saver standards for building types; McGRAW-Hill Book Company 3 Ston, British hospital and health care 4 Weeler, Hospital design and function, 1964.  <b>Useful references</b> 1 Neufert ,Architects data,1980 2 Architectural record book, Hospital s clinics and health centers, 1960. 3 Redstone, Hospitals and health care facilities, 1978. <b>Magazines - enter net</b> 1 <a href="http://www.greatbuilding.com">www.greatbuilding.com</a> 2 <a href="http://www.arcspace.com">www.arcspace.com</a> 3 <a href="http://www.m7mar.com">www.m7mar.com</a>
<b>Type of Teaching:</b>	3 hrs /Theoreti cal  7 hrs /practi cal Class work, presenti ng assignments, and criti cism.
<b>Pre-requisites:</b>	Architecture Design7
<b>Frequency:</b>	Yearly in spring semester
<b>Requirements for credit points:</b>	Modules Course Requirements  1- Students should att end lectures (theoreti cal part and practi cal part).  2- Discussion and criti cism in the studio are required in all lectures.  3- Homework and classwork for each lecture are required.  4- Similar example report and presentati on.  5- site selecti on report and presentati on.  6- Day sketch.  7- Students should submit [Prelim, Prefi nal, and Final] 200 bed general hospital
<b>Credit point:</b>	10
<b>Grade Distribution:</b>	[200 bed general hospital Project 100%] Similar example, Site analysis, Report, Daily work, Day sketch and Concept 25% Prelim 20% Pre-Final 25% Final 30%
<b>Work load:</b>	The workload is 270h. It is the result of140h att endance and 130h self-studies.