**Course Description Form**

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| 1. Course Name:
 |
| Hospital systems and design |
| 1. Course Code:
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| WBM-51-07 |
| 1. Semester / Year:
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| Semester |
| 1. Description Preparation Date:
 |
| 2024-03-19 |
| 1. Available Attendance Forms:
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| presence in the classroom |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 30 Hours / 2 Units |
| 1. Course administrator's name (mention all, if more than one name)
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| Name: Saad M. SarhanEmail: saad.mah@uowa.edu.iq |
| 1. Course Objectives
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| **Course Objectives** | To increase student knowledge in the field of designing hospitals and recent trends associated with developing hospitals concerning general and specialized buildings, gardens, waiting areas, traffic routes, ventilation system, safety, etc…To enable him from dealing with different future modifications about adding additional departments or medical devices. |
| 1. Teaching and Learning Strategies
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| **Strategy** | 1- Making the student able to demonstrate real knowledge of hospital systems and design concepts during the academic level and their applications.2- Learn the fundamental hospital departments and their size, medical devices included, ventilation requirements, sterilization procedures, etc. ‏3- Learn and understand modern solution methods in modification cases. |
| 1. Course Structure
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| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1 +2+3 | 4 | Introduction  | Defining the hospital, the Perspective of the Patient, Healthcare as a Public Service, The Business Case for Hospitals, Changing Healthcare Needs. | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 4+5+6 | 4 | DESIGNING HOSPITALS: | Distribution of Healthcare Facilities: Centralization, Decentralization and theNetwork Hospital, The Design of Hospitals: Care Pathways, Processes and Spaces: The Example of the Maternity Department, Evidence-Based Design for Healing Environments, The Building Type andits Emergence. | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 6+7 | 4 | Limits and continuity | Limits: Introduction, limits found numerically and Algebraically, examples.Continuity: Introduction, ExamplesEvaluating limits at a point: introduction, Examples.Infinite limits: Introduction , Examples. | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 8+9 | 4 | PUBLIC SPACES | Zoning and Traffic System, Arrival and Entrance, Public Spaces in and Around the Hospital: Streets, Squares, Patios, Waiting Areas, Healing Gardens, Way finding: Signage and Orientation Systems  | Lectures presented in PDF format | Daily exams + homework assignments + monthly exams |
| 10 +11 | 4 | TREATMENT AREAS | Planning: an Integral Approach, Outpatient Department, Inpatient Wards, Diagnostic Imaging, Operating Theater and Recovery Area, Intensive Care Unit, Emergency Department, Laboratory Department. | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 12 | 4 | GENERAL HOSPITALS Part 1 | Circle Bath, Butaro District Hospital Butaro, Rwanda MASS Design Group, Private Hospital, Lille, France Jean-Philippe Pargade Architectes, Extension Kolding Hospital Kolding, Denmark Schmidt Hammer Lassen Architects, AZ Groeninge Kortrijk, Belgium Baumschlager Eberle Architekten Zaans Medisch Centrum. | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 13 | 4 | GENERAL HOSPITALS Part 2 | Hôpital Riviera-Chablais, Medisch Spectrum Twente Enschede, Rey Juan Carlos Hospital, Meander Medisch Centrum, Cleveland Clinic Abu Dhabi. | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 14 | 4 | CHILDREN’S HOSPITALS | Nemours Children’s Hospital, Randall Children’s Hospital, Juliana Children’s Hospital, Mother-Child and Surgical Center, Children’s Hospital, Royal Children’s Hospital. | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 15 | 4 | UNIVERSITY HOSPITALS | Center for Surgical Medicine, University Hospital, Düsseldorf, St. Olav’s Hospital, Akershus University Hospital, Reconstruction of the Johann Wolfgang Goethe University Hospital, Erasmus MC Hospital and Education Center | Lectures presented in PDF format | Daily exams + homework assignments + monthly |
| 1. Course Evaluation
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|  Daily exams with practical and scientific questions. ‏ Participation scores for difficult competition questions among students Establishing grades for environmental duties and the reports assigned to them Semester exams for the curriculum, in addition to the mid-year exam and final exam |
| 1. Learning and Teaching Resources
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| Required textbooks (curricular books, if any) | Hospital\_Design\_Guide\_How\_to\_get\_started |
| Main references (sources) | • College library to obtain additional sources for the academic curricula• Check scientific websites to see recent developments in the subject |
| Recommended books and references (scientific journals, reports...) | All reputable scientific journals that are related to the broad concept of designing hospitals and their results |