

**SALAHADDIN UNIVERSITY**

**COLLEGE OF ENGINEERING**

**DEPARTMENT OF ARCHITECTURE**

**Architectural Design II**

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| 1. **General Information** | |
| Architectural Design | |
| Course Title | Architectural Design 2 |
| Course Code | 4101 |
| College | Engineering |
| Department | Architectural Engineering |
| No. of Credits | 8 |
| Pre-requisites Course | Design 1 |
| Pre-requisites Course Code |  |
| Course Coordinator(s) | Dr. Hardi K. Abdullah |
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| Teaching staff | Dr. Hardi K. Abdullah  Suhaib Jalaladdin  Fenk D. Miran  Lana Muhammed  Ahmad Nawzad  Laree Shawqi |
| Class Hours | 10 |
| Course Type | Compulsory |
| Offer in Academic Year | 2022-2023 |

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| 1. **Course Description** |
| Students are required to design a space for you as an architecture ‘city’ on an empty abandoned lot in College of Engineering. The space is to fit the specific needs of  the user (as a hideout space for viewing, transitional space, space for dreaming, space showcasing hobbies or collections and so to speak a getaway space for the user who wants to be alone), space that best fits the personality, occupation and character of the person that the user you are designing for. Considerations should also be given to human scale and dimensional requirements.  The Project will be divided into three major stages:  1. First Prelim submission for Narrative & Storytelling’  2. Pre-final submission Design Exploration (Interim Submission)  3. Final project submission & presentation.  Student in this project will demonstrate understanding of their chosen user thru research after which show the process how this understanding is translated to spatial and form concept & design thru sketches and study models. And involves presentation of the final design thru presentation and model. |

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| 1. **Course Objectives** |
| 1. To further the students ability to create and develop a conceptual narrative.  2. To introduce and create awareness in understanding the dimensional requirements of the human body (anthropometrics and ergonomics).  3. To explore and apply basic design principles and terminologies.  4. To explore how the selection and application of materials in relation to the sensory experience of space.  5. To be able to select and make different study models (sketch, concept, diagram, section and development models) |

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| 1. **Learning Outcomes** |
| Generate design concept/idea and translate into simple (architectural) design.  2. Generate design through the process of sketching and model-making.  3. Document, sketch and explain from personal experiences of the built and natural Environment  4. Apply the understanding of basic architectural design principles, and the notion of body and space interactions.  5. Produce a well-organized, systematic and creative graphical presentation through a well-drawn and executed two-dimensional form (plans, elevations and sections), three-dimensional form (sectional perspective, axonometric and perspective) and scale modeling.  6. Prepare and enhance student’s verbal communication and presentation skills. All three projects are to be external assessors. |

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| 1. **Course Content** | | | | | | |
| Workload/ Lectures Hours | | | | | | |
| Salahuddin University - College of Engineering – Department of Architecture | | | | | | |
| Spring Semester  22 February 2021 – 7/June 2021 | | | | | | |
| Architectural Design I | | | | | | |
|  | Content Description | | | Work Load/ Lectures (hrs.) | | |
| Week 1  31\1 -3\2 | theoretical | | - Course book introduction - Introduction to site plan - the project definitions \ Architectural spatial composition Dr.Hardi | 1 | | |
| Practical | | Modeling process , Introduction of the horizontal section \*Plan and vertical section, Section A-A Dr .Hardi  Students working on their model using foam | 9 | | |
| Week 2  7\2-10\2 | Theoretical | | Introduction to the building material – Figures on views and sections M.Suhib m.Fenk | 1 | | |
| Practical | | Modeling Concept , Multi view drawings , Practicing Plan and section | 9 | | |
| Week4  14\2 - 17\2 | Practical | | Final submission 17\2 | 10 | | |
| Week 4  17/2 | Theoretical | | - Course book introduction - Introduction to site plan - the project definitions Dr,Hardi  Introducing colour for the mass model + furniture + hatching dr.Zynab | 1 | | |
| Practical | | -site visit  Taking dimensions and draw sketches  -convert the sketches to scale / finalize the site plan  -concept of the project | 9 | | |
| Week 5  21\2 -25\2 | Theoretical | | * Introduction of the Shipping Container dimensions And the architecture studio m.Fenk * Introducing to the functions of the project and furniture dimensions and standards m.Suhib | 1 | | |
| Practical | | Student organization of the their shipping container in their sites and introduce a composition  Mass model + Site plan | 9 | | |
| Week6  28\2 \3\3 | Theoretical | | Introduction to the furniture design dimensions , colour dr.Hawar | 1 | | |
| Practical | | Drawing exercises  Students taking dimensions of the drawing hall furniture  Draw furniture in their pans  Mass model + site plan | 9 | | |
| Week 7  15/3- 18/3 | Theoretical | | Architectural multiview Drawings:  -Doors and windows stairs Dr,Hardi  Drawing sections + elevations | 1 | | |
| Practical | | Mass model  Function + sections + elevations  Concept submission (optional ) | 9 | | |
| Week 5    Nawroz Holiday | | | | | | |
| Week 8 |  | | Prefinal submission   1. Mass model 2. Plan 3. Site plan 4. 4 elevations 5. 2 sections 6. 1 isometric 7. Using pencil | 10 | | |
| Theoretical | | Critic on their prefinal introduction of the opening | 1 | | |
| Practical | | Development for the openings and section furniture | 9 | | |
| Week 9 | Theoretical | | Presentation Style Dr.Hawar | 1 | | |
|  | | final submission   1. Model + site 2. Plan 3. Site plan 4. 4 Elevation 5. 2 Sections   2 Isometric views using colour | 9 | | |
| Week10 | Theoretical | | Introduction project no.3  design principle 1  harmony + contrast + Balance Dr.Hardi | 1 | | |
| Practical | | Concept  Modelling  Ppt presentations and example by students | 9 | | |
| Week 11 | Theoretical | | design principle 2  Rhythm+ Movement + Emphasis m.Fenk | 1 | | |
| Practical | | Citric and development of their projects | 9 | | |
| Week 12 | Theoretical | | Design principle 3  Unity + Proportion and scale dr,Hawar | 1 | | |
| Practical | | Prefinal submission | 9 | | |
| Week 13 | Final submission | | | | 10 | |
|  | Day sketch | |  | | |
| Total Hours of Work Load Lectures | | | | | | 150 |

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| 1. **ECTS** | | | | | | |
| Subject | Education Activity | No. | Description |  | Activity Type | No. Weeks |
| Semester | 1 | Theory | face to face | 15 | 1 | 15 |
| 2 | Preparation (0.5 theory) | out of class | 15 | 0.5 | 7.5 |
| 3 | Practical | face to face | 15 | 9 | 135 |
| 4 | Preparation (1.5 practical) | out of class | 15 | 1.5 | 22.5 |
| Assignment | 5 | Report | out of class | 1 | 2 | 2 |
| 6 | weekly presentations | out of class | 10 | 2 | 20 |
| 7 | Submission/prelim | out of class | 1 | 8 | 8 |
| 8 | Submission/pre-final | out of class | 1 | 10 | 10 |
| 9 | Submission/Final | out of class | 1 | 13 | 13 |
| Assessment | 10 | Quiz | out of class | 2 | 2 | 4 |
| 11 | Day sketch | out of class | 1 | 3 | 3 |
| ` |  |  | Face to face hours/15 weeks | | | 150 |
|  |  |  | Out of class hours/15 weeks | | | 90 |
|  |  |  | Total hours | | | 240 |
| ECTS (Total hours/ 30) | | | | | | 8 |
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| 1. **Course Assessment Tools** |
| Final grade for this module will be calculated as following:  First semester:100% for semester balance  - Assignments (including all studio-works, home-works ,groupactivities ,day sketch and daily quizzes , Class discussion and participation) 65%  - Weekly final presentation 15%  -Prelim, Pre-final and Final project presentation 15%  -Attendance 5%  Student's attendance is required in all classes. |

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| 1. **Text books & references:** |
| Reading is vital and fundamental for students, both as part of the course fulfillment and personal development as a designer or an architect. There are many architectural books, magazines and journals that are worth reading.  Textbooks required for Design communication module are :  1. Architecture: Form, Space and Order, Francis Ching, Forth Edition  2. Neufert Architects Data Fourth Edition - By Wiley Blackwell  3. “Time Saver Standards for Architectural Design Data” by John Hanock  4. Architectural Graphics, 4 th Edition by Francis D.K. Ching (Required)  5. Graphics for Architecture, by Kevin Forseth   * 6. Architectural Drawing: A Visual Compendium of Types and Methods |

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| 1. **Course policy** |
| * Regular attendance is required according to the university rules. * Daily participation and conducting assignments are required. * Reading the materials & teachers notes daily. * The participation of the student will be taken in consideration and it will be evaluated by the lecturer. * As for the practical part of the material there will be daily degrees for the assignments given and they will have a considerable effect on the final degree. |

