

**AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)**

Faculty of Engineering

BAE 2101: Computer Aided Design and Drafting

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| **1.0 Title** |  |

Design a civil plan with electrical fitting & fixture according to BNBC of a hospital floor of a multi-stored building using AutoCAD

**2.0 Objectives**

In this experiment, student will design the civil plan of a hospital floor in AutoCAD with Electrical Fittings according to Bangladesh National Building Code.

**3.0 Experiment to Solve**

The experiment should be designed by the students following below mentioned requirements:

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| 1. | Draw a **Civil Plan** of an ideal hospital floor of a multi-stored building of total 10000 SFT (approx.) using AutoCAD Software. [minimum requirement: 5 cabins, 2 general wards, store, lift, emergency stair, Main stair, waiting zone, common washroom, 4-doctor’s chambers and others] | [P1] | **20 points** |
| 2. | Draw the **Fittings** for the civil plan consist of necessary electrical fittings applying BNBC. | [P4] [P5] | **10 points** |

**4.0 Lab Project Submission**

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| . **Course Name:** | COMPUTER AIDED DESIGN & DRAFTING | **Course Code:** | BAE 2101 |
| **Semester:** | FALL 2022-2023 | **Section:** | B |
| **Faculty:** | Mahamudul Hassan | **OEL/Project** | 1 |
| **Assessment:** | **OEL (CO2 & CO3), POI: P.e.1.C6** | | |
| **Submission Deadline:** |  | | |

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| **Category** | **Unsatisfactory (1-5)** | **Below Average (6-10)** | **Good**  **(11-15)** | **Excellent**  **(16-20)** | **Secured Marks** |
| Civil Plan | The civil plan is either copied or very poor with major errors. | The civil plan is below average or incomplete with major errors. | The civil plan is drawn partially as per requirement with minor errors | The civil plan is unique and drawn as per requirements with proper dimensions |  |
| **Comments** |  | **Total Marks:** | | |  |

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| **Category** | **Unsatisfactory (0-3)** | **Below Average (5)** | **Good**  **(7)** | **Excellent**  **(8-10)** | **Secured Marks** |
| Electric Fittings | The fittings are incomplete or copied | The fittings are drawn or placed inappropriately without maintaining BNBC | The fittings are drawn and placed appropriately with partially complying to BNBC | The fittings are placed appropriately and maintaining BNBC |  |
| **Comments** |  | **Total Marks:** | | |  |

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| **SL #** | **ID** | **Student Name** | **Department** | **Marks** |
| 01 |  | **MD. SHOHANUR RAHMAN SHOHAN** | **B. Sc. in CSE** |  |
| 02 |  | **SUBRATA DAS** | **B. Sc. in CSE** |  |
| 03 |  | **TANZIMUL HAQUE SEAIUM** | **B. Sc. in CSE** |  |
| 04 |  | **IFTHEKAR IBNA MOHSIN** | **B. Sc. in CSE** |  |

**ATTACH SCREENSHOTS BELOW:**

