

**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 restaurant floor using AutoCAD

**2.0 Objectives**

In this experiment, student will design the civil plan of a restaurant 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 Call Center of total 6000 SFT (approx.) using AutoCAD Software. | [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 2023-2024 | **Section:** | P |
| **Faculty:** | Raja Rashidul Hasan | **OEL/Project** | 1 |
| **Assessment:** | **OEL (CO2 & CO3), POI: P.e.1.C6** | | |
| **Submission Deadline:** | Civil Plan and Fittings for a Call Center | | |

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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:** | | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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:** | | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL #** | **ID** | **Student Name** | **Department** | **Marks** |
| 04 | 22-48370-3 | SARKAR, NASIR | CSE |  |
| 11 | 22-48833-3 | TANHA, ROKIYA IBNE | CSE |  |
| 13 | 22-48899-3 | OISHE, AMINA TASNIM | CSE |  |
| 17 | 22-49399-3 | TAZWAR, MONIM | CSE |  |
| 27 | 23-51193-1 | SUJAN, NABIB AHAMED | CSE |  |

**ATTACH SCREENSHOTS BELOW:**

A computer screen shot of a blueprint

Description automatically generated

Figure 1: **Civil Plan** of an Ideal Call Center

A computer screen shot of a blueprint

Description automatically generated

Figure 2: **Fittings** for the civil plan