

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

Faculty of Engineering

BAE 2101: Computer Aided Design and Drafting

# 1.0 Title

Design an airport terminal plan/layout with electrical fitting & fixture according to BNBC using AutoCAD.

# 2.0 Objectives

In this experiment, students will design the **civil plan of an airport terminal (covering checkin counters, waiting lounges, gates, and restrooms) with necessary electrical and signage fittings** in AutoCAD according to Bangladesh National Building Code.

# 3.0 Experiment to Solve

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

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Draw a **Civil Plan** of an airport terminal covering 20000 SFT using AutoCAD Software. | [P1] | **20 points** |
| 2. | Draw the **Fittings** for the civil plan consist of necessary electrical fittings such as lighting, digital signage, and charging stations by 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 2024-25 | **Section:** | O |
| **Faculty:** | FARZANA MOMTAZ MITHILA | **OEL/Project** | 1 |
| **Assessment:** | **OEL (CO2 & CO3), POI: P.e.1.C6** |  |  |
| **Submission Deadline:** | 20-01-2025 |  |  |

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| **Category** | **Unsatisfactory (1-5)** | **Below Average (6-10)** | **Good**  **(11-15)** | **Excellent (16-20)** | **Secured Marks** |
| Airport  Terminal Layout | The layout is either copied or very poor with major errors. | The layout is below average  or incomplete with major errors. | The layout is drawn partially as per  requirement with minor errors. | The layout 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 | 22-48924-3 | Md. Nazmul Huda Labu | CSE |  |
| 02 | 22-46635-1 | Md. Habibur Rahman Sagor | CSE |  |
| 03 | 22-46640-1 | Gulam Kibria | CSE |  |
| 04 | 23-54609-3 | Md Labib Sarkar | CSE |  |
|  |  |  |  |  |

**ATTACH SCREENSHOTS BELOW:**

