

**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 floor plan with electrical fitting & fixture according to BNBC of **a new commercial bank branch** using AutoCAD

**2.0 Objectives**

In this experiment, student will design the civil floor plan of a new commercial bank brunch 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 a commercial bank branch of total 3500 SFT (approx.) using AutoCAD Software. The plan should be clearly dimensioned. Design must include a customer service lobby, vault/saferoom ideally away from main entry, branch manager's office, loan/accounts officers' desks, ATM zone accessible from exterior or interior, staff break room, kitchen, and corridor. | [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:** | Spring 2024-25 | **Section:** | J |
| **Faculty:** | Ahnaf Tahmid | **OEL/Project** | 1 |
| **Assessment:** | **OEL (CO2 & CO3), POI: P.e.1.C6** | | |
| **Submission Deadline:** | 25-05-2025 | | |

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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** |
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**ATTACH SCREENSHOTS BELOW:**