AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Engineering

BAE 2101: Computer Aided Design and Drafting

1.0 Title

Design a civil plan with electrical fitting & fixture according to BNBC using AutoCAD

2.0 Objectives

In this experiment, students will design **the civil plan/layout of a railway station (including platforms, waiting rooms, ticket counters, and administrative offices) with electrical fittings for lighting and signaling** 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 a railway station layout covering 20000 SFT (approx.) using AutoCAD Software.	[P1]	**20 points**
2.	Draw the **Fittings** for the civil plan consist of necessary electrical fittings and electrical components such as platform lighting, signal lights, and public announcement systems applying BNBC.	[P4] [P5]	**10 points**

4.0 Lab Project Submission

Course Name:	COMPUTER AIDED DESIGN & DRAFTING	**Course Code:**	BAE 2101
Semester:	Fall 2024-25	**Section:**	
Faculty:		**OEL/Project**	1
Assessment:	**OEL (CO2 & CO3), POI: P.e.1.C6**		
Submission Deadline:			

Category	**Unsatisfactory (1-5)**	**Below Average (6-10)**	**Good (11-15)**	**Excellent (16-20)**	**Secured Marks**
Railway Station 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:**	

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

ATTACH SCREENSHOTS BELOW: