



AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Engineering

Bachelor of Science in Electrical and Electronic Engineering

(EEE) BAE 2101: Computer Aided Design and Drafting

1.0 Title

Design a civil plan with electrical fitting & fixture and electric conduit layout according to BNBC of a duplex home using AutoCAD

2.0 Objectives

In this experiment, student will design the civil plan of a duplex home in AutoCAD with Electrical Fittings and Conduit Layout according to Bangladesh National Building Code (BNBC).

3.0 Experiment to Solve

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

1.	Draw a Civil Plan of an ideal duplex home of total 1600 SFT (approx.) using AutoCAD Software. In the ground floor of this duplex home, there are 2 bedrooms – 1 master bedroom with a toilet, 1 common toilet, one living space and one kitchen. In the first floor, there are 4 bedroom with 2 toilets.	[P1]	20 points
2.	Draw the Electrical Fittings and Electrical Conduit Layout for the civil plan consist of necessary electrical fittings applying BNBC.	[P4] [P5]	10 points

4.0 Lab Project Submission

Lab project should contain following sections:

1. Title
2. Group Information
3. **Civil Plan:** Details of civil plan including necessary dimensions and text
4. **Electrical Fitting:** Civil plan consisting of electrical fittings
5. **Electrical Conduit Layout:** Civil plan consisting of electrical fittings and conduit layout

Course Name:	COMPUTER AIDED DESIGN AND DRAFTING	Course Code:	BAE 2101
Semester:	Spring 2021-2022	Section:	M
Faculty:	Dr. Mahadi Hasan	OEL/Project	1
Assessment:	OEL (CO4)		
Submission Deadline:	9 – 11 AM, 14 April 2022		