



## 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 according to BNBC for a Computer Laboratory space using AutoCAD

### 2.0 Objectives

In this experiment, student will design the civil plan of a residential space in AutoCAD with Electrical Fittings 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. Drawing a civil plan of an ideal Computer Laboratory Room having 40 computers **20 points**  
(NORTH SIDE 5 rows and 4 computers in each row, SOUTH SIDE 5 rows and 4 computers in each row, walking passage between two North and South side) using AutoCAD Software. [P1]
2. Draw the Electrical Fittings for the space consist of necessary electrical fittings applying **10 points**  
BNBC. [P4, P5]

### 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 (.dwg file)
4. **Electrical Fitting:** Civil plan consisting of electrical fittings (.dwg file)

<b>Course Name:</b>	COMPUTER AIDED DESIGN AND DRAFTING	<b>Course Code:</b>	BAE 2101
<b>Semester:</b>	Summer 2020-2021	<b>Section:</b>	P
<b>Faculty:</b>		<b>Project</b>	1
<b>Title:</b>			
<b>Assessment:</b>	OBL Project (CO4)		
<b>Submission Date:</b>	05-08-2021, Thursday (till 1:15 pm)		
<b>Submission Link:</b>	<a href="https://forms.gle/Pd3Lkx2ou7uq85BQ7">https://forms.gle/Pd3Lkx2ou7uq85BQ7</a>		

Category	Unsatisfactory (1-5)	Below Average (6-11)	Good (12-16)	Excellent (17-20)	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	
<b>Comments</b>		<b>Total Marks:</b>			

Category	Unsatisfactory (1-2)	Below Average (3-5)	Good (6-8)	Excellent (9-10)	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	
<b>Comments</b>		<b>Total Marks:</b>			

SL #	ID	Student Name	Department	Marks
1.				
2.				