

**EEE 312, ETE 312 Lab | Power Electronics Lab***Fall 2019*

Course Faculty: Dr. Md. Aynal Haque (AyH)
Lab Instructor: Abdullah Al Noman
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Mobile: +8801612937333
Office Room: LIB 600 (C9)
Office Hours: A 8:00 AM – 11:10 AM
M 9:40 AM – 2:30 PM & 6:00 PM – 7.30 PM
Lab Section: 2
Lab Timing: A 2.40 PM – 5:50 PM
Lab Room: SAC 501
Prerequisite: EEE 211, MAT 350

FB Group: 193_EEE312_sec02_LAB
<https://www.facebook.com/groups/385244199063148/>

Lab Outline

Lab 1	Introduction to Power Electronics Equipment
Lab 2	Three Phase Three Pulse Rectifier
Lab 3	Three Phase Six Pulse Rectifier
Lab 4	Power Thyristor
Lab 5	AC Phase Control
Lab 6	Buck Chopper
Lab 7	Boost Chopper
Lab 8	Inverter

Marks Distribution

Attendance and Lab Performance	10 % (0% + 10%)	
Lab Report	20 %	
Assignment	20 %	
Viva	15 %	
Final Setup Test	10 %	
Final Exam:	25 %	<i>Comprehensive</i>

Tentative Course Schedule:

Class No.	Date	Topic	Deliverables
1	28-Sept		
2	9- Oct	Introduction to Power Electronics Equipment	
3	12- Oct	Three Phase Three Pulse Rectifier	Assignment 0
4	19- Oct	Three Phase Six Pulse Rectifier	LR 1
5	26- Oct	Power Thyristor	LR 2
6	02- Nov	AC Phase Control	Assignment 1, LR 3
7	09- Nov	Buck Chopper	LR 4
8	16- Nov	Boost Chopper	LR 5
9	23- Nov	Inverter	LR 6
10	30- Nov	Simulation	Assignment 2, LR 7
11	07-Dec	Practice Lab	
12	14-Dec	Setup Exam	*Assignment 3

*If required, the submission deadline for Assignment 3 may be shifted to 20th December.

RULES:

- **Late Submissions won't be accepted.**
- **Any significant plagiarism in lab report / assignment will result in 0 marks for that report/ assignment.**
- **Any attempt to use unfair means in the exams will result in a direct 0 marks in the lab.**
- **All submissions are due at the beginning of the class (starting 30 minutes).**
- **Use of mobile phone, tab, laptop etc. during the class is strictly prohibited**
- **Each group must bring at least two printed lab manuals to the class**
- **Only use the cover page provided, using any other cover page will lead to rejection of your submission**
- **In the lab report cover page, all information must be typed; handwritten cover pages will be rejected.**
- **Ensure that your group prints all necessary materials well ahead of the class.**

REMEMBER: Late submissions are not accepted