

# ELECTRICAL DRIVES

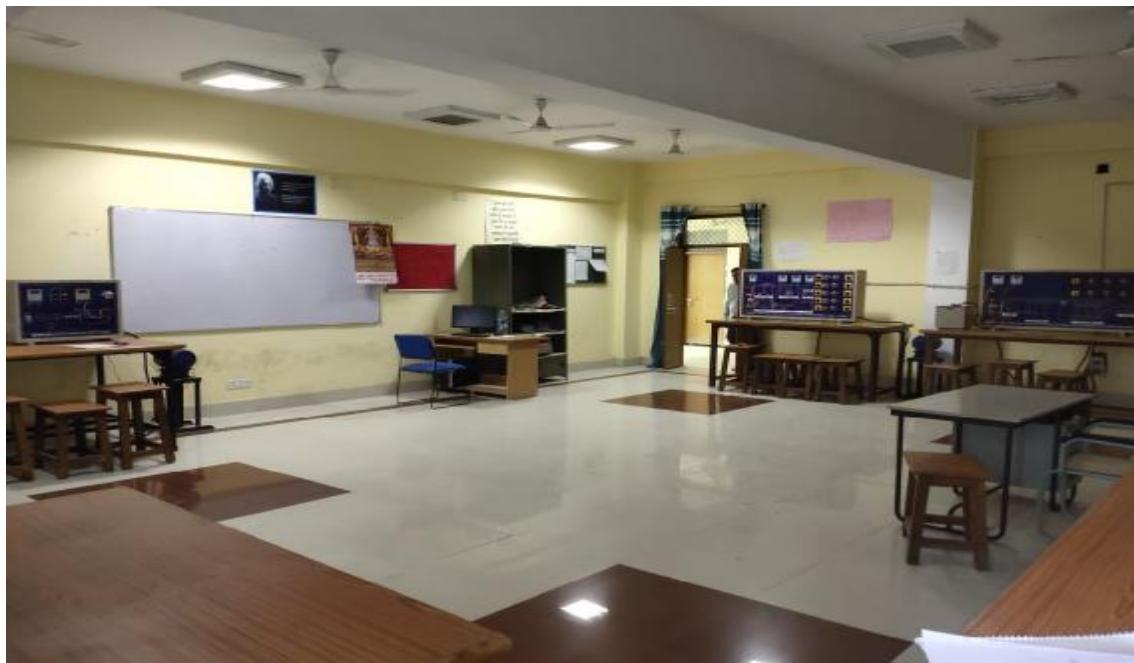
## List of Experiments(A) Hardware Based Experiments:

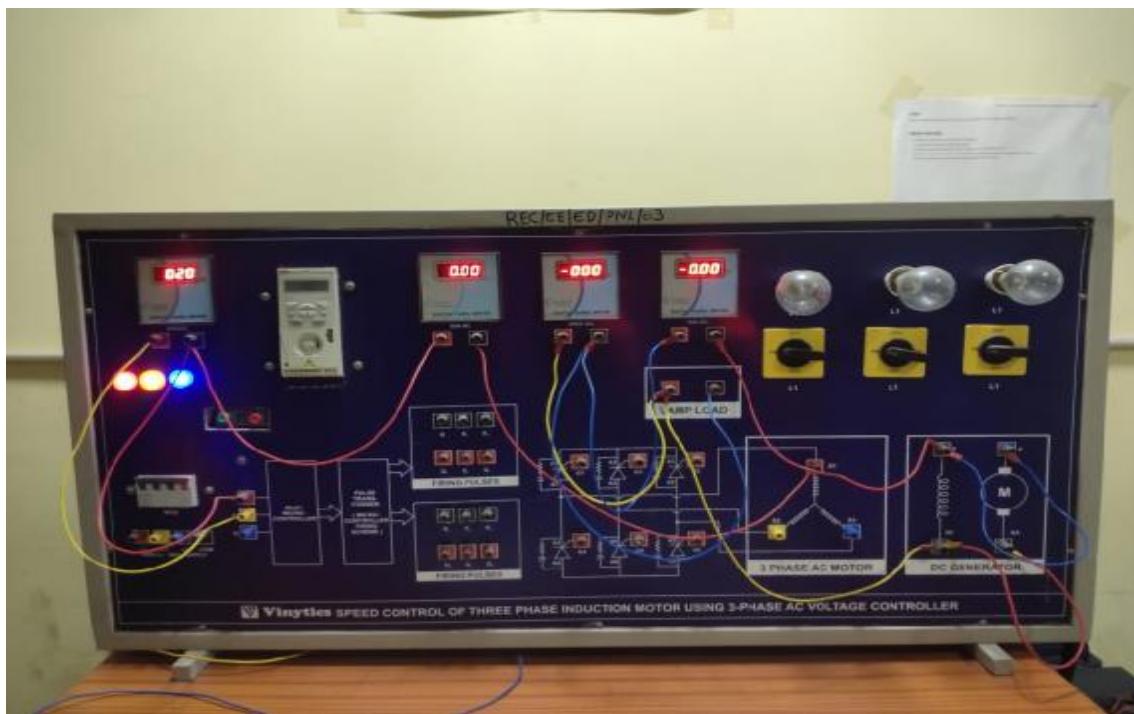
1. To study the speed control of three phase slip ring induction motor using static rotor resistance control using rectifier and chopper .
2. To study the speed control of three phase slip ring induction motor using static scherbius slip power recovery scheme.
3. To study the speed control of three phase induction motor using three phase AC voltage controller.
4. To study the speed control of single phase induction motor using single phase Ac voltage controller.
5. To study the speed control of separate excited Dc motor by varying armature voltage using single phase half controlled bridge converter.
6. To study the closed loop control of DC motor.
7. To study the speed control separately excited Dc motor by varying armature voltage using single phase fully controlled bridge converter.
8. To study the speed control of separately excited DC motor using MOSFET/IGBT chopper.

## (B) Simulations Based Experiments (using MATLAB or any other software)

1. To study speed control of separately Excited DC motor using chopper control in motoring and braking modes.
2. To study speed control of three phase induction motor using (a) constant V/F control (b) constant voltage and frequency.

ED Lab Photo-











# RAJKIYA ENGINEERING COLLEGE ,AMBEDKAR NAGAR

## INVENTORY SHEET

Department /Section / Hostel : Electrical engg.

Inventory of Room No./office :Electric Drives lab

Date of Inventory Preparation ; 17/12/2018

Sr.No.	Product	Product Description	Quantity	Remark
1.	Three phase induction motor using static rotor resistance control using rectifier and Chopper control panel	Induction motor	1	Working
2.	Three phase slip ring induction motor using static scherbius slip power recovery control panel	Induction motor	1	Working
3.	Speed control of three phase induction motor using three phase AC Voltage controller control panel	Induction motor	1	Not Working
4.	Speed control of single phase induction motor control panel	Induction motor	1	Working
5.	Speed control of 3 phase induction motor using voltage source inverter control panel	Induction motor	1	Working
6.	Half controlled bridge converter panel	DC Drive	1	Working
7.	Closed loop control of Dc motor control panel	DC Drive	1	Working
8.	Fully controlled bridge rectifier panel	DC Drive	1	Working
9.	Micro controller based single phase single dual converter panel	DC Drive	1	Working
10.	Speed control of three phase induction motor using current source inverter control panel	Induction motor	1	Working
11.	Chopper controller (MOSFET Based ) control panel	DC Drive	1	Working
12.	Three phase slip ring induction motor	1HP	2	Working
13.	Three phase squirrel cage induction motor coupled with DC Generator	1HP	1	Working
14.	Three phase squirrel cage induction motor	0.5 HP	2	Working
15.	Single phase induction motor	1 HP	1	Working
16.	DC Shunt Generator	1 KW	1	Working
17.	DC shunt motor coupled with Tachogenerator	0.5 HP	1	Working
18.	DC Shunt motor	1 HP	3	Working
19.	Digital Tachometer	RPM/MPM	1	Working
20.	Tool kit	For lab	1	

