

CONTROL SYSTEM LAB

NAME OF INCHARGE: ER. DEVENDER KUMAR

1. Speed Torque Characteristics of AC Servo Motor kit.
2. Speed Torque Characteristics of DC Servo Motor kit.
3. Synchro transmitter & Receiver Characteristics kit.
4. Magnetic Amplifier with Complete Accessories kit.
5. DC Motor Close Loop Speed Control System kit.
6. DC Motor Close Loop Position Control System kit.
7. Lead, Lag & lead-lag Compensator kit.
8. Stepper Motor Control System kit.
9. PID Control Kit.

ELECTRICAL DRIVE LAB

NAME OF INCHARGE: ER. NARESH KUMAR MOR

1. Chopper controlled DC 1HP series motor for obtaining speed torque char. Complete with motor & panel, loading arrangement & RPM meter.
2. Single phase Half Controlled fed D.C. 1HP Series motor at different firing angles for getting speed torque char. With firing angle adjustment. Loading arrangement with belt & pulley & RPM meter.
3. Three phase fully controlled converter fed DC motor 1HP at different firing angle for obtaining speed torque char. Complete unit with motor belt & pulley arrangement & RPM meter.
4. Single phase dual converter eight thyristors to form two bridges. L-C filters circuit; step down 150 volt ac supply @ 1 amp, circuit for firing control of thyristors. One analog centre zero ammeter and test points, small dc shunt motor 1/12 watt (66Watt)
5. VSI controlled small induction motor through controlled rectifier circuit.
6. CSI controlled small induction motor through controlled rectifier circuit.
7. Speed control of small 1/12 HP (66Watt) Single phase Induction motor using ac regulator.
8. Regenerative Braking of DC motor. Complete with motor & panel.
9. Single phase Full wave cycloconverter fed induction motor drive for obtaining speed torque char. & torque frequency for constant V/F ratio, suitable for fractional HP motor. Complete with motor & panel.
10. Power Scope Model- ST 224.

Electrical Technology Lab

NAME OF INCHARGE: ER. PARVEEN SAINI

1. D.C. Regulated power supply.
2. Function Generator.
3. Digital Multimeter.
4. Decade capacitance box.
5. Decade inductance box.
6. Bread board.
7. Carbon resistance of different rating.
8. Single phase transformer.
9. Norton's Theorem, Superposition & Reciprocity Theorem Trainer Kit.
10. Thevenin's, Maximum power transfer & Tellegens Theorem Trainer Kit.

ELECTRICAL WORKSHOP LAB

NAME OF INCHARGE: ER. Ved Parkash Bhardwaj

1. Panel for Fluorescent tube light.
2. Panel for H.P.M.V. lamp.
3. Panel for H.P.S.V. lamp.
4. Panel for Electrical Accessories.
5. Panel for House Wiring & stair case wiring.
6. Winding set for electrical Machines.
7. Set of relays & circuit breakers.
8. Pictorial view of home appliances i. e. Electric iron, Immersion rod,
1- Phase induction motor etc.

ELECTRO-MECHANICAL ENERGY CONVERSION LAB

NAME OF INCHARGE: ER. MANU KAUSHISH

1. DC Shunt Motor, 3HP, 220V, 1500 RPM coupled with DC Shunt Generator 2kw, 1500 RPM, 220 V, 3 Point DC starter & Complete Control Panel.
2. 3 Ph. Induction Motor, 3HP, 4 poles, coupled with DC compound Generator 2kw, 1500 RPM, and 220 V with Star- Delta Starter & Complete Control Panel.
3. Synchronous Motor 5HP, 415V, coupled with DC compound Generator 3.5Kw, 1500 RPM, 220v, with complete Control Panel.
4. 1 phase transformer with Tapping of 1KVA.
5. 3 phase Auto-Transformer 8A, input 415V, Output 0-470V.
6. 3 phase capacitive Load 0-10A
7. 3 phase Resistive Load 0-10A.
8. 1 phase SQ Induction motor 2HP. With brake pulley control panel.
9. DC Shunt motor coupled with three phase, 3HP. Alternator with Control Panel.
10. Slip ring 5 HP. Induction motor with brake pulley arrangement with control panel.
11. Rectifier set DC supply 40 A.
12. 3 phase inductive loading rheostat 15 A.
13. Single phase auto – transformer 15 A.
14. DC series motor 3 HP, 1500rpm, 220V, with brake pulley arrangement with starting arrangement with control panel.
15. 3phase Squirrel cage Induction motor 3HP. 1500rpm with control panel with Star – delta starter.
16. DC compound motor 3HP. 220V with brake pulley arrangement & with control panel
17. Cross section models of Actual motors.
 - 1) DC, compound motor 2HP. 220V with DC starter
18. Cross section models of Actual motors
 - 1) Slip Ring Induction motor 3phase, 3HP, with Rotor Resistance Starter.
19. Three phase Inductive load 3KW (KW/ ph).

ELECTRICAL MEASUREMENT AND MEASURING INSTRUMENT LAB.

NAME OF INCHARGE: ER. SACHIN BHARDWAJ

1. Kit of Kelvin's double bridge to measure low resistance.
2. De - Sauty's Bridge Kit.
3. Kit of max well bridge for measuring self inductance.
4. Wein bridge Kit.
5. Kit to calibrate energy meter.
6. Kit to measure power factor.
7. To measure hige Resistance by loss of charge method.

MACHINE LAB I&II

NAME OF INCHARGE: ANIL JINDAL

1. DC Shunt Motor, 3HP, 220V, 1500 RPM coupled with DC Shunt Generator 2kw, 1500 RPM, 220 V, 3 Point DC starter & Complete Control Panel.
2. 3 Ph. Induction Motor, 3HP, 4 poles, coupled with DC compound Generator 2kw, 1500 RPM, and 220 V with Star- Delta Starter & Complete Control Panel.
3. Synchronous Motor 5HP, 415V, coupled with DC compound Generator 5Kw, 1500 RPM, 220v, with complete Control Panel.
4. 1 phase transformer with Tapping of 1KVA.
5. 3 phase Auto-Transformer 8A, input 415V, Output 0-470V.
6. 3 phase capacitive Load 0-10A
7. 3 phase Resistive Load 0-10A.
8. 1 phase SQ Induction motor 2HP. With brake pulley control panel.
9. DC Shunt motor coupled with three phase, 3HP. Alternator with Control Panel.
10. Slip ring 5 HP. Induction motor with brake pulley arrangement with control panel.
11. Rectifier set DC supply 40 A.
12. 3 phase inductive loading rheostat 15 A.
13. Single phase auto – transformer 15 A.
14. DC series motor 3 HP, 1500rpm, 220V, with brake pulley arrangement with starting arrangement with control panel.
15. 3 phase Squirrel cage Induction motor 3HP. 1500rpm with control panel with Star – delta starter.
16. DC compound motor 3HP. 220V with brake pulley arrangement & with control panel
17. Cross section models of Actual motors.
 - 1) DC, compound motor 2HP. 220V with DC starter
18. Cross section models of Actual motors
 - 1) Slip Ring Induction motor 3phase, 3HP, with Rotor Resistance Starter.
19. Three phase Inductive load 3KW (KW/ ph).

POWER SYSTEM LAB

NAME OF INCHARGE: ER. JAI BHAGWAN

1. Panel for I.D.M.T. Over Current relay.
2. Percentage Differential relay.
3. Panel for brake down strength of transformer oil.
4. Panel for observe the Ferranti effect & ABCD, Hybrid & image Parameter of transmission Line.

POWER ELECTRONICS

NAME OF INCHARGE: Prof. GOBIND MISHRA

1. Thyristor Characteristics Kit.
2. TRIAC Characteristics Kit.
3. DIAC Characteristics Kit.
4. Transistor Characteristics Kit.
5. MOSFET Characteristics Kit.
6. SCR Firing Ckt, Kit.
7. UJT Firing Ckt, Kit.
8. SCR Lamp Flasher Kit.
9. SCR Ring Counter Kit.
10. Kit of Thyristor DC Ckt, Breaker with Current Limiting.
11. Kit of 1PH Full Wave Bridge Converter.
12. Kit of DC Chopper.
13. Kit of Series Inverter.
14. Kit of bridge Inverter.
15. Kit of 1PH Cycloconverter.