

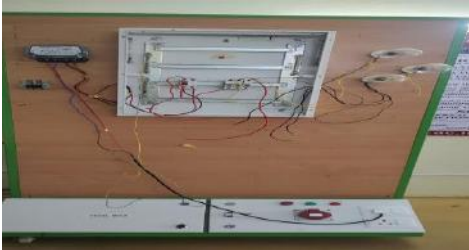


MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE





DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING




B. Tech. II Year I Semester – R 20



Electrical Home Laboratory – 20EEE601

LIST OF EXPERIMENTS

SI NO	NAME OF THE EXPERIMENTS	Equipment details	Image
1	Electrical wiring circuit with fuse, energy meter and main switch	S.P.T Switches (One-way switch), 3-Plate ceiling rose, Bakelite Pendent type holders, Philips, Filament lamps 250V/60W, Wooden Batten 19mm or 13mm, Single Phase Energy Meter, DPIC Main Switch, Kit Kat fuse units, Joint Clips, Screws 12, 19, 25, 50mm, CTS wire 1/18 or 3/20, Switch board with hylam top, 10x15cm	
2	Wiring circuit for three phase induction motor using DOL starter.	3- ϕ Induction Motor, Insulated Combination Pliers, Screw driver, Line Tester, 3- ϕ DOL Starter, Multi-meter.	
3	Study of two point and three – point starters	DC motor, two point and three – point starters	

4	Study of DOL, RDOL and Star – Delta starters.	3- phase AC motor, DOL, RDOL and Star – Delta starters	 
5	Construction of two winding transformer	Single phase two winding transformers, testing bulb.	
6	Overhauling of a DC machine.	Growler, Spanner Set and Wrench, Wooden Mallet, 15cm Screw Driver, 10cm Connector, Chisel, 15cm Insulated Cutting Plier, Multi-meter, Megger, Screw Spanner, Bearing Puller, Pulley Puller, Cool Winding Machine, Test Lamp, Hack saw, Files.	

7	Fault location – testing and repair of AC single phase motors	AC single phase motor, Multi-meter.	
8	Overhauling of a table fan and a ceiling fan	Table fan, Ceiling fan	
9	Repair and troubleshooting of Electric Iron, Electric Kettle and Water Heater (Geyser).	Electric Iron, Electric Kettle and Water Heater (Geyser)	

10	Calibration of single – phase energy meter.	single – phase energy meter, Wattmeter, Ammeter, Voltmeter.	
11	Measurement of time period and frequency using DSO.	Digital Storage Oscilloscope	
12	Earth resistance measurement using digital earth resistance tester.	Digital Earth Resistance Meter, connecting wires.	