

## Department of Electrical Engineering

Sr No	Name of Course	Duration	Learning Outcomes
1	Electrical and Electronics Automation	35 Hrs	<ol style="list-style-type: none"> <li>1. Students will understand the Basic components of a PLC system like sensors etc.</li> <li>2. Students will understand front panel and Basic switching Logic of PLC.</li> <li>3. Students will understand Relay and Contactor logic and LV switchgear.</li> <li>4. Students will know Wiring details of panel and different types of panel.</li> <li>5. Student will understand times and counter control logic.</li> </ol>
	Advanced PLC Programming SCADA	63 Hrs	<ol style="list-style-type: none"> <li>1. Students will understand basic working and applications of PLC.</li> <li>2. Students will develop their own logic for any specific simple operation.</li> <li>3. Students will learn system graphic designing in SCADA.</li> <li>4. Students will know testing of equipment/components interfacing to a PLC system.</li> <li>5. Students will be able to program, test and debug a PLC program.</li> </ol>
2	Testing Maintenance and Repairs of Electrical domestic and Industrial Appliances	60 Hrs	<ol style="list-style-type: none"> <li>1. Students will understand working and construction, testing and faults of Induction motor.</li> <li>2. Students will understand Inverter wiring and installation of Inverter, UPS at site as per Load.</li> <li>3. Students will develop capability to select component as per requirement in applications.</li> <li>4. Students will learn Testing and Maintenance of domestic &amp; Industrial appliances.</li> <li>5. Students will develop interest in Electrical circuits and projects.</li> </ol>
	VAP On Solar PV Plant	21 Hrs	<ol style="list-style-type: none"> <li>1. Students will understand working of Solar power plant.</li> <li>2. Students can decide the primary requirement in designing solar power plant.</li> <li>3. Students can design the battery size for off grid solar power plant.</li> <li>4. Students can calculate the size of power plant as per the utilisation/ energy bill.</li> <li>5. Student can start his own work with or without support.</li> </ol>