

**Welcome
to
Department of Electrical Engineering**

“Overview of Laboratories ”

Georg Ohm Basic Electrical Engineering Laboratory



Courses Utilization

- Basic Electrical Engineering Laboratory
- Fundamentals of Electrical Engineering Laboratory

Major Equipment

- Efficiency and Regulation of Single-Phase Transformer by Direct Loading,
- Strain Gauge Kit
- Half Wave Full Wave Rectifier Kit
- Zener Diode Kit
- Single Phase Transformer

Lab Assistant

Mr. Amar P. Patil

Lab In-Charge

Mrs. Priyanka N. Mane



Michael Faraday Electrical Machine Laboratory



Courses Utilization

- AC Machines Laboratory
- DC Machines & Transformer Laboratory

Major Equipment

- Speed Control of DC shunt motor
- Swinburne's test & Hopkinson's test
- Brake load test on shunt motor, Field test on series motor
- Parallel operation of single-phase transformer
- DC Series motor #DC Compound Generator 220V 50HP, 1500rpm + Control Panel

Lab Assistant
Mr. Amar P. Patil

Lab In-Charge
Mr. Pramod B. Gurav

Dr. D. K. Bose

Power Electronics & Drives Laboratory



Courses Utilization

- Power Electronics Laboratory
- Electrical Drives and Control Laboratory
- Feedback Control System

Major Equipment

- Three phase half / full wave-controlled converter Three phase full wave fully controlled SCR bridge converter suitable for resistive load & motor load (plug in 3 phase, 440 , 50 Hz). O/P Voltage 220V DC current 2A max.
- Single phase Dual converter transmitter kit single phase dual converter trainer kit for 4 Q control for DC motor load (plug in 220 /240V, 50Hz). O/P voltage 220V DC, current 2 A max

Lab Assistant
Mr. Sajjad H Patel

Lab In-Charge
Mr. P. L. Chavan

Gordon Moore Industrial Automation and Control Laboratory



Courses Utilization

- Industrial Automation and Control Laboratory
- Power System Protection Lab
- Power Quality Harmonics

Major Equipment

- Siemens PLC, Siemens S7-200 Smart PLC With 24 / 16 DIDO 4/2 AIAO + Programming Software
- A.C. / D.C. Motor Speed Control System
- Delta DVP Series PLC with 24 / 20 DIDO, 4/2 aiao + WPL, Programming Software

Lab Assistant

Mr. Anil D.Nimbalkar

Lab In-Charge

Mr. Santosh R.Madiwal

Richard E. Morley Electrical Computer Laboratory



Courses Utilization

- Power System Analysis Lab
- EVT Lab
- Mini Project & Mega Project Lab

Major Equipment

- Lenovo commercial PC-NeroT
- Core i5 12400 12th gen. processor, 8GB PCIe NVME SSD, USB Keyboard & Mouse 19.5 inch LED Monitor Windows 10Pro 64 bit OEM License , 3yrs onsite Warranty Lenovo PC.
- Netgear make layer 3 managed switch 1Gbps, 48 Ports , 10 Gbps Uplink, 4 ports - 2 SFB 2 copper Sr. No. 7L81435KA0048

Lab Assistant
Mr. Anil D.Nimbalkar

Lab In-Charge
Dr.Pavan R.Padghan

Department of Electrical Engineering

James Clerk Maxwell Electronics & Microcontroller Laboratory



Courses Utilization

- Microcontroller Laboratory
- Analog Electronics Engineering Laboratory

Major Equipment

- HP make ProCurve 2510G
- 24 port L2 manageable switch J92779A
- On line 10KVA / 240V UPS Renutron 10 KVA - 40-2 UPS System warranty 36 Months
- Quanta Make SMF Batteries 12V /75 AH Batteries Warranty 24 Months

Lab Assistant

Mr. Anil D.Nimbalkar

Lab In-Charge

Mrs. Sushmita A.Sarkar

Thank You