

# *Salient Features of the Labs*

- *Fully Developed and Functional.*
- *Experienced Faculty and Technical Supporting Staff.*
- *Modern Infrastructure*

# LABORATORIES

- *Electrical Machines Lab.*
- *Power Systems Lab.*
- *Measurements Lab.*
- *Power Electronics Lab.*
- *Micro processor Lab.*
- *Basic Electrical & Electronics Engineering Lab.*
- *High Voltage Lab.*
- *Computational Lab.*
- *Applied Electronics Lab.*
- *Advanced Measurements Lab.*
- *Electrical Drives Lab.*
- *Non Conventional Energy Sources Lab*
- *Microcontroller & PLC Lab (to be developed)*

# *Major Equipment*

## *In Power Electronics Lab*

- *Digital Storage CRO.*
- *SCR Controlled Inverter.*
- *DC Shunt motor control using SCR's*
- *Commutation Circuits Study kit.*

# MAJOR EQUIPMENT

## MACHINE SLAB

- *Synchronous Machines .*
- *Asynchronous Machines.*
- *DC Machines.*
- *Single Phase and Three Phase Transformers.*
- *Schrage Motor.*
- *Universal Motor.*
- *DC generator coupled with slip ring induction*
- *motor.*

*Contd....*

# MAJOR EQUIPMENT

- *Amplidyne.*
- *Repulsion induction motor.*
- *DC compound generator.*
- *Three phase pole changing squirrel cage induction motor.*
- *Main transformer*
- *Three machine cascade connection*
- *Synchronous Converter*

# *Major Equipment*

## *POWER SYSTEMS LAB*

- *Transmission line working model*
- *Relays*

# Major Equipment

## *Electrical Drives Lab.*

- ▣ *1HP, 220V, AC motor drive with Control Panel*
- ▣ *1HP, 415V, AC motor drive with Control Panel*
- ▣ *HMI (Human Machine Interface) Control Panel with TWINDO (PLC)*
- ▣ *1 HP, DC motor drive with Control Panel*
- ▣ *Stepper motor drive with Control Panel*
- ▣ *HP Laptop with Window Vista*

# MAJOR EQUIPMENT

## HIGH VOLTAGE LAB

- *150 KV Testing Transformer.*
- *10 Stage Impulse Generator.*
- *Surge potentiometer.*
- *High precision Schering Bridge.*
- *0-15 KV spark tester.*
- *30 KV AC/ 40 KV DC high voltage tester.*
- *Oil test set.*
- *Artificial rain making equipment*
- *140 KV DC test set.*



# MAJOR EQUIPMENT MEASUREMENT LAB

- *Rotating type substandard meter.*
- *Synchro set.*
- *Process controller.*
- *PID controller kit.*
- *Data logger unit.*
- *Transducer instrumentation kit.*
- *AC servo Motor*

# MAJOR EQUIPMENT

## *Advance Measurement Lab.*

- *Spectrum analyzer.*
- *Phase sequence indicator.*
- *Earth resistance meter.*
- *Digital sound level meter.*
- *TDR cable tester.*

# *NCEER Lab (New Facility Created)*

*Created under RPS grant*

- ▣ *Bomb Calorimeter*
- ▣ *Incinerator*
- ▣ *Electronic Precision Weighing Balance*
- ▣ *Partial Gas Analyzer*
- ▣ *Full Gas Analyzer*
- ▣ *Solar PV module*