

# Department Lab

## Description

Electrical engineering department of NIT POLYTECHNIC is equipped with state of art laboratory and complete setup of tools and equipments required to enhance technical knowledge of students. Various laboratories are maintained under department as per the AICTE norms

SR.NO	NAME OF LABORATORY	NAME OF COURSE IT'S PRACTICAL CONDUCTED	TOTAL INVESTMENT IN RS.	NAME OF INCHARGE FACULTY
1	LAB.1	CNE,MEE	4.94 LAC	MR.R.BANSOD
2	LAB.2	FEE,ECI,EMW,ECN,FEE,BEE	1.48 LAC	Ms.S.GHATE
3	LAB.3	IME,EEM,IIN,EEC,ESP	1.07 LAC	Ms.P.KORDE
4	LAB.4	SAP	2.87 LAC	MR.S. LADEKAR
5	COMPUTER LAB	EDC,CPR	6 LAC	MS.C.DOLSE
6	PROJECT LAB	Students projects are displayed	Students project	

## TECHNICAL SUPPORTING STAFFING

Sr.No.	TECHNICAL SUPPORTING STAFF	DESIGNATION	QUALIFICATION	EXPERIENCE IN YEARS
1	MR.N.HINGE	LAB.ASST	ITI	13
2	MR.M.SELOKAR	LAB ASST	ITI	4

## EQUIPMENT AVAILABLE IN LAB

Sr. No	Name of Equipments Required and available as per MSBTE Syllabus
	Load Bank- 3 phase (10A, 230V, 3KW) 1 phase (10A, 230, 3KW)
	Multimeter- digital
	Motor- Rectifier unit
	Transformer <ul style="list-style-type: none"><li>• Single Phase transformer (1KVA , 230/115)</li><li>• Single Phase Transformer Tapping on both side (1KVA) (0%/50%/86%/100%)</li><li>• Three Phase Transformer Tapping on both side (1KVA) (415V, 30A)</li></ul>
	AC Ammeter( MI) (0-15 Amp)
	Wattmeter (MI) (5A/10A/700W)
	AC voltmeter (MI)
	DC Motor-Alternator (230V, DC Shunt, 2.5 KW,1500)
	DC Shunt motor
	Three point Starter (3 HP, 12A, 220V, 1500RPM loading)
	3 phase alternator
	3 phase synchronous motor
	3 phase slip ring induction motor

Sr. No	Name of Equipments Required and available as per MSBTE Syllabus
	Squirrel cage Induction motor (3 Phase, 415/1440 RPM)
	STAR-DELTA Starter Relay (5A-10A, 415 V)
	Single phase IM capacitor
	Rotor resistance STARTER
	Hand Tachometer (0 -3000 RPM)
	Optical Tachometer( 0-3000)
	Multimeter Rishmax *10 (Digital)

## MEASUREMENT AND INSTRUMENTATION LAB

- **Lab In charge:**Prof. Prof. Pranawati Nimje
- Experiment of subject to be conducted: EEM, FEE
- Approximate Cost of laboratory: Rs. 1,49,871/-
- Area of Laboratory : 66 Sq. M.



# EQUIPMENT AVAILABLE IN LAB

Sr. No	Name of Equipments Required and available as per MSBTE Syllabus
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	Earth Tester
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	Frequency Meter
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	Kelvin Double Bridge
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	Multimeter
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	OP-AMP IC 741 As Adder And Subtracter
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	Phase Sequence Indicator
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	RTD Trainer Kit
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	Strain Guage Kit
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	Synchro Transmitter
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	Transformer
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	Current Transformer
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	Autotransformer
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	Thermocouple
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	RTD, Ammeter, Feeler Guage, Weston Frequency Meter,
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	Phase Sequence Indicator
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**Sr. No**

**Name of Equipments Required and available as per MSBTE Syllabus**

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Digital Earth Tester, Potential Transformer (230/110)

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## ELECTRICAL CIRCUIT AND NETWORK LABAROTORY

- **Lab In charge:**Roshan Yerne
- Experiment of subject to be conducted: ECN, FEE, PE
- Approximate cost of Lab: 51,896 /-
- Area of Laboratory : 66 sq. M.



## EQUIPMENT AVAILABLE IN LAB

**Sr. No**                      **Name of Equipments Required and available as per MSBTE Syllabus**

Ammeter, Voltmeter, Clip On Ammeter

Bread-Board Trainer

Galvanometer

Digital Earth Tester

DG Multimeter

LCR Meter

1 Phase Autotransformer (0-270 V, 5Amp)

Bread Board Trainer

Kit Of KCL, KVL

Maximum Power Transfer Theorem Kit,

Thevenin's Kit

Superposition Theorem Kit.

## POWER ELECTRONICS AND MICROPROCESSOR LABORATORY

**Lab In charge:** Prof. Reena Domkundwar

Experiment of subject to be conducted:



Approximate cost of Laboratory:

Area of Laboratory : 68.38 Sq. M.



# ELECTRICAL WORKSHOP

**Lab In charge:** ELECTRICAL WORKSHOP

Experiment of subject to be conducted:

Approximate cost of Laboratory:

Area of Laboratory : 70 Sq. M.