Department of Electrical & Electronics Engineering Lab Equipments: 2019-20

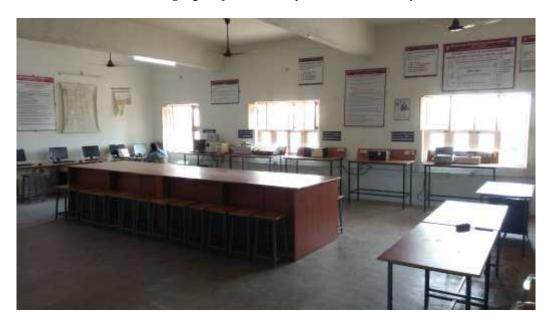
S.N	NAME OF THE	IMAGE	DETAILS OF	QUANTITY
O	EQUIPMENT	11111111	EQUIPMENT	
1	FUNCTION GENERATOR	NILIFENCHON CENTRATOR  PHES ENGRAND  INTERPRETATION  INTERPRET	Physitech Electronics, 1 M Hz PHY-102 FAR	10
2	DIGITAL STORAGE OSCILLOSCOPE	AND KEYEIGHT EDUX NOOLA migat beengt Guillament in time, 1 (time,	KEY SIGHT EDUX1002A 50 MHz, 1GSa/s	5
3	SOLAR SIMULATOR		CROMA 62020H-150S Programmable Dc Power Supply	1

## Department of Electrical & Electronics Engineering

Name of lab: Control Systems Laboratory

**Room No** : WB 120

Photograph of Control Systems Laboratory





## **List of Equipment in Control Systems Laboratory**

S. No.	Equipment Image	Equipment Name
1	ini d	Transfer Function of DC Motor along with motor set
2		DC Servo motor Controller
3		Process Control Simulator
4		Simulation of Transfer Function using Op- Amp Kit
5		Lead-Lag Compensation
6		Pulse Counting using DC motor

7		Temperature Controller using PID
8	C C C C C C C C C C C C C C C C C C C	Magnetic amplifier
9		Basic PLC trainer kit with PC, trainer kit, traffic light controller, temperature controller, water level and DOL
10		Synchro transmitter receiver kit
11	Character of AC Serio Motor	AC servo motor
12		Regulated Power Supply unit (0-30)V
13		Cathode Ray Oscilloscope 20 MHz

14	Time Response of Second order System
15	Storage Oscilloscope
16	NI My Rio hardware with Qube Servo

A Sample Photograph of students carrying out experiment



## Department of Electrical & Electronics Engineering

Name of lab: Electrical Circuits Laboratory

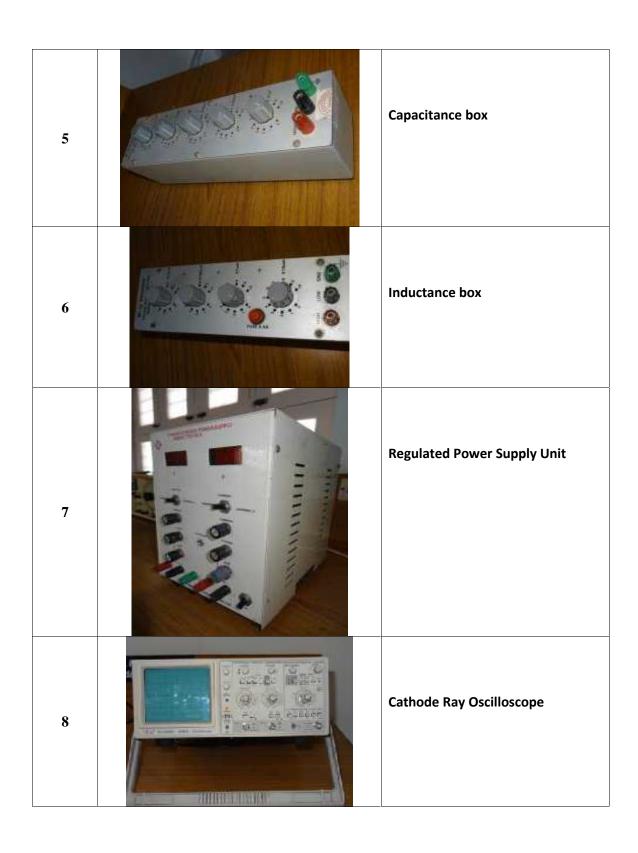
**Room No**: WB 120

## Photograph of Electrical Circuits Laboratory



## <u>List of Equipment in Electrical Circuits Laboratory</u>

S. No.	<b>Equipment Image</b>	<b>Equipment Name</b>
1	physitech ************************************	Bread Board
2		Function generator
3		Logic gates
4		Decade Resistance box



9	Servo Stabilizer 10KVA
10	Three Phase Auto transformer
11	Single phase transformer-2KVA

A Sample Photograph of students carrying out experiment



## Department of Electrical & Electronics Engineering

Name of lab: Electrical Machines Laboratory

**Room No** : WB 012

### Photograph of Electrical Machines Laboratory



# **List of Equipment in Electrical Machines Laboratory**

S. No.	<b>Equipment Image</b>	Equipment Name
1		DC Shunt Motor-DC Shunt Generator Set
2		DC Shunt Motor-DC compound Generator Set
3		3HP DC Series motor-DC Series Generator Set
4		DC Shunt Motor with loading arrangement
5		DC Compound Motor with loading arrangement
6		DC Shunt Motor-DC Series Generator set
7		1-Ø Induction motor, 1HP with loading arrangement

8		3-Ø squirrel cage Induction motor with loading arrangement
9		3-Ø slip ring Induction motor with loading arrangement
10		DC Shunt Motor3.7KW - 3- Ø Alternator 3.5KVA set with 3-Point starter
11	The state of the s	DC Shunt Motor3.7KW - 3- Ø Alternator 3.5KVA set with 3-Point starter cylindrical type
12	HIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1-Ø Transformer Closed Type 2KVA
13		1- Ø Transformer open Type 2KVA
14	S TON ATON	1- Ø transformers 2KVA with 50%,86.6% tapings

15		1- Ø Autotransformers
16		Booster Transformer 230v,50A
17		3-Ø Autotransformers
18		1- Ø Resistive load 5A
19		3-Ø/1.5w Resistive load (6steps)
20	Applitude Control of the Control of	Digital Contact Type Tachometers
21		Tachometers Analog Type

22		Energy Meter(5-10A,240V)
23	THE STATE OF THE S	Digital Multi Meters
24		Tong tester(Clamp meter)
25	Dis Grap	Stopwatch
26		Fire Extinguishers DCP & CO2

A Sample Photograph of students carrying out experiment



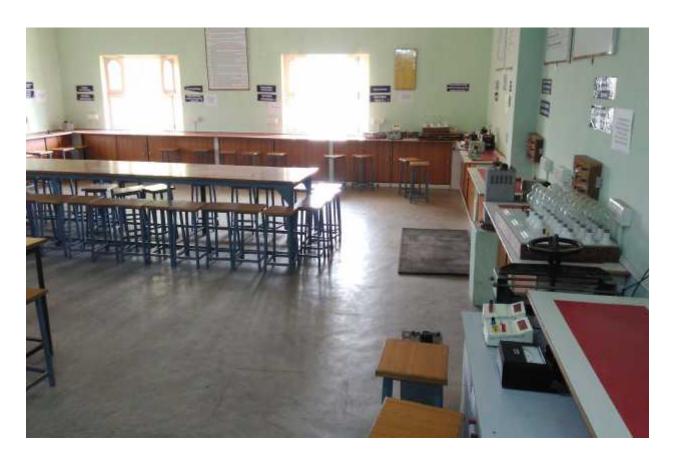


## Department of Electrical & Electronics Engineering

Name of lab: Electrical Measurements Laboratory

**Room No** : WB 119

# Photograph of Electrical Measurements Laboratory



## <u>List of Equipment in Electrical Measurements Laboratory</u>

S. No.	<b>Equipment Image</b>	Equipment Name
1		Transformer oil testing kit
2		Schering bridge
3		Anderson bridge
4	Famous No. 100 Co. 100	Kelvin double bridge
5		Single phase power factor meter
6		Crompton DC Potentiometer

7	Phase shifting transformer with stepless control
8	Three phase auto transformer
9	Single phase inductive load
10	Three phase inductive load

11	LAWARTHE LANG - 2 PLOS - 500	Three phase capacitive load
12		Photo optical bench
13		Strain guage
14		Servo stabilizer
15	DE MOTENTIOMETER  TO MOTENTIOMETER  LSV	Voltage ratio box



A Sample Photograph of students carrying out experiment



## Department of Electrical & Electronics Engineering

Name of lab: Electronics Practical's Laboratory

**Room No** : WB 119

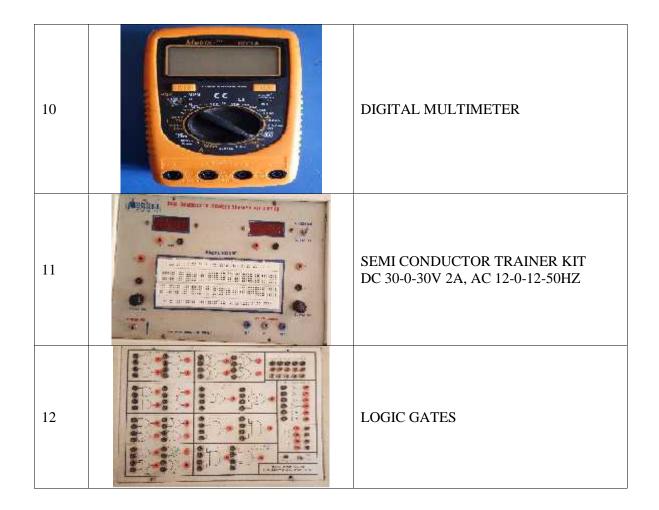
### Photograph of Electronics Practical's Laboratory



## <u>List of Equipment in Electronics Practical's Laboratory</u>

S. No.	Equipment Image	Equipment Name
1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 BIT SYNCHRONUS AND ASYNCHRONOUS COUNTER
2	I.A. Walleten Partieury Andr	REGULATED POWER SUPPLIES 0-30V,2A
3	AND SHIPPACE TARY  PIN-IN  PIN	HALF ADDER AND FULL ADDER KIT
4	DISTRICT OF CONTRACT OF CONTRA	ENCODER AND DECODER KIT

5	MLJ FERSE (JO LEVEL, FILM)  TO, NO.	MULTIPLEXER AND DEMULTIPLEXER KIT
6	SHIPL NEGIS ENS	SHIFT REGISTER KIT
7	THE RESIDENCE OF STREET OF	LINEAR DIGITAL IC KITS
8		LINEAR DIGITAL IC KITS
9		FUNCTION GENERATOR



A Sample Photograph of students carrying out experiment



# MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE UGC-Autonomous MADANAPALLE-517325 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Name of lab: Microprocessor and Interfacing Laboratory

Room No : WB 220 Lab Area : 12X9 sq.m

	Lab Name: Microprocessor and Interfacing Practicals			
S. No.	Equipment Name	Quantity	Equipment Image	Frequency of maintenance
1	8086/8088 Microprocessor trainer kit	10		Yearly Once
2	8051 Micro Controller Trainer Kit	03		Yearly Once
3	8259 Study card Interfacing kit	02		Yearly Once
4	8279 Study card Interfacing kit	02		Yearly Once
5	Traffic Light Controller Interfacing kit	02		Yearly Once
6	ADC Study card Interfacing kit	02		Yearly Once

7	Dual DAC Study card Interfacing kit	02	Yearly Once
8	8251/8253 Study card Interfacing kit	02	Yearly Once
9	8255	02	Yearly Once
Total E	quipment's in the laboratory	27	Yearly Once



# MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE UGC-Autonomous MADANAPALLE-517325 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Name of lab: Microprocessor and Interfacing Practical's

Room No : WB 220 Lab Area : 12 X 9 sq.m

SI NO	NAME	QUANTITY	Frequency of
			Maintenance
1	LIGHTS	4	Whenever Required
2	FANS	6	Whenever Required
3	WORKBENCHES	7	Whenever Required
4	SYSTEMS	29	Whenever Required
5	CHAIRS	39	Whenever Required
6	STOOLS	0	Whenever Required
7	WORKTABLE	0	Whenever Required
8	SYSTEMS WITH UPS CONNECTION AND INTERNET FACILITY	29	Whenever Required
9	PROJECTOR	NIL	-
10	BLACKBOARD	1	Whenever Required

# Department of Electrical & Electronics Engineering

Name of lab: Power Electronics Laboratory

**Room No** : WB 116

## Photograph of Power Electronics Laboratory



### <u>List of Equipment in Power Electronics Laboratory</u>

S. No.	Equipment Image	Equipment Name
1	23	1 – Ø Ac Voltage Controller
2		Forced Commutation Circuits Unit
3		Single phase Fully controlled Bridge converter
4	OC Johns Charles	Dc Jones Chopper
5		1 – Ø Cyclo Converter
6		1 – Ø Series Inverter
7		1 – Ø Half Converter
8		3 – Ø Half Controlled Bridge Converter

9		1 – Ø Dual Converter
10		1 – Ø Parallel Inverter
11	The state of the s	Stabilizer
12		SCR,MOSFET,IGBT,TRIAC, AND DIAC Characteristics Studying Unit
13		Gate firing Circuits of SCR Using R,RC,UJT
14		DSO

# A Sample Photograph of students carrying out experiment





## Department of Electrical & Electronics Engineering

Name of lab: Power System Laboratory

**Room No** : WB 012

# Photograph of Power System Laboratory

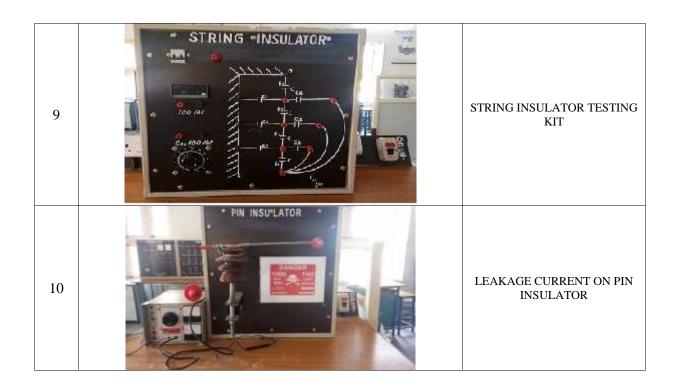




## <u>List of Equipment in Power System Laboratory</u>

S. No.	Equipment Image	Equipment Name
1		OVER CURRENT RELAY – ELECTROMAGNETIC TYPE
2		STATIC NEGATIVE SEQUENCE RELAY
3		OVER VOLTAGE RELAY – ELECTROMAGNETIC TYPE
4		OVER VOLTAGE RELAY – MICROPROCESSOR TYPE

5		% BASED DIFFERENTIAL RELAY –STATIC
6	WHEN THE PROPERTY WAS BOARD TO SERVICE TO SE	THREE WINDING TRANSFORMER KIT LPF WATTMETER300/600/5A- 2NO,3PH AUTO T/F (440/470V/10A),-1NO, AC VOLT METER-(0-600V)1NO AC AMMIETER(0-10A)1NO
7		PERFORMANCE OF TRANSMISSION LINE MODULE
8	SI-FESENTIAL PROTECTION ON I-O TRA-INSPORMER	DIFFERENTIAL PROTECTION ON 1-PH TRANSFORMER



### A Sample Photograph of students carrying out experiment



## Department of Electrical & Electronics Engineering

Name of lab: <u>Simulation Laboratory</u>

**Room No** : WB 220

# Photograph of Simulation Laboratory



## <u>List of Equipment in Simulation Laboratory</u>

S. No.	Equipment Image	Equipment Name
1		HCL INFINITI A380 PRO Processor: Intel Core i3-3220 3rd generation, 3.3GHz Chipset: Intel H61 RAM: 2 GB HDD: 500 GB Monitor: 18.5" TFT
2		Fire Extinguisher

# A Sample Photograph of students carrying out experiment

