Report on Training Module of Electrical Circuit Design Laboratory

As per Director (Academic) instructions, **the Electrical Engineering Department** has planned **and conducted** a training module for technical staff members in all core-laboratories of our department under the guidance of concerned expertise faculty and staff members.

As part of this, all technical staff members of **Electrical Engineering Department** has been taught and performed all experiments of **Electrical Circuit Lab** under the guidance of following faculty and staff members at **8.30 AM-12.30 PM** during **02-01-21 to 15-01-21**.

Electrical Circuit Design Lab. – (3EX4-23)

Faculty Member	Technical Staff
1. Mr. VikasMahala	1. Mr. Banshilal
2. Mr. Deepak Saini	2. Mrs. Reshma Sharma
3. Mrs. BaibhavBishal	

Experiments in the given below has been taught by allotted faculty member to the trainee members of electrical department.

Name of Experiment	Taught by Faculty member	Date
1) Introduction to Datasheet Reading.	Mrs. Baibhav Bishal	**02-01-2021**
2) Introduction to Soldering - Desoldering process and tools.	Mrs. Baibhav Bishal	**04-01-2021**
3) Simulate characteristic of BJT and UJT. Validate on Bread Board or PCB.	Mr. Vikas Mahala	**04-01-2021**
4) Simulate Bridge Rectifier Circuit and validate on Bread Board or PCB. **a)** Half Bridge. **b)** Full Bridge.	Mrs. Baibhav Bishal	**05-01-2021**
5) Simulate Regulated Power Supply and validate on Bread Board or PCB. **a)** Positive Regulation (03 Volt to 15 Volt). **b)** Negative Regulation (03 Volt to 15 Volt). **c)** 25 Volt, 1–10 A Power Supply	Mrs. Baibhav Bishal	**06-01-2021**
6) Simulate Multivibrator circuit using IC 555 and BJT separately. Validate on Bread Board or PCB. **a)**Astable Mode. **b)**Bistable Mode. **c)**Monostable Mode.	Mr. Vikas Mahala	**07-01-2021**
7) Introduction to Sensors to measure real time quantities and their implementation in different processes. (Proximity, Accelerometer, Pressure, Photo-detector, Ultrasonic Transducer, Smoke, Temperature, IR, Color, Humidity, etc.).	Mr. Deepak Saini	**08-01-2021**
8) Hardware implementation of temperature control circuit using Thermistor.	Mr. Deepak Saini	**09-01-2021**
9) Simulate Frequency divider circuit and validate it on Bread Board or	Mr. Deepak Saini	**11-01-2021**

PCB.		
10) Hardware implementation of 6/12 V DC Motor Speed Control (Bidirectional)	Mr. VikasMahala	**12-01-2021**
11) Simulate Buck, Boost, Buck-Boost circuit and validate on Bread Board or PCB.	Mr. VikasMahala	**13-01-2021**
12) Simulate Battery Voltage Level Indicator Circuit and validate on Bread Board or PCB.	Mr. Deepak Saini	**15-01-2021**

Trainee Members-:
Mr.Mahesh Kumar Rathodiya
Mrs.Reshma Sharma
Mr.Prem Prakash Sharma
Mr.Banshi Lal
Mr.Kulwant Singh
Mrs.Anita Bagaria

During training period, each technical staff member has learned about-:

- Objective of performing experiment
- Criterion of selecting the ratings of equipment.
- Complete detail study about panel of experiment set-up.
- Checking of circuit diagram with complete ratings.
- Checking of interconnections of equipment
- Number of readings for performing experiments.
- Sample calculation, graphs, etc.
- Thoroughly go through the lab manuals of each experiment.

Swami Keshvanand Institute of Technology, Management and Gramothan,
Department of Electrical Engineering

Attendance sheet on Training Module of Electrical Circuit Design Laboratory_

{02.01.2021 to 15.01.2021}

Name of Trainee	02-01-2021		04-01-2021		05-01-2021		06-01-2021		07-01-2021		08-01-2021		09-01-2021		11-01-2021		12-01-2021		13-01-2021	15-01-2021
	(9-11) pm		(9-11) pm	(11:30 to 1:30 pm)	(9-11) pm		(9-11) pm		(9-11) pm		(9-11) pm		(9-11) pm		(9-11) pm		(9-11) pm		(9-11) pm	(9-11) pm
Mr. Mahesh Kr. Rathodiya	P	P	P	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P
Mrs. Reshma Sharma	P	P	P	P	P	P	P		P	P	P	P	P	P	A	P	P	P	P	P
Mr. Prem Prakash Sharma	P	P	P	P	P	P	P		P	P	A	P	P	P	P	P	P	P	P	P
Mr. Bansi Lal Bhambu	P	P	P	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P
Mr. Kulwant Singh	P	P	P	P	P	P	P		P	P	A	P	P	P	P	P	P	P	P	P
Mrs. Anita Bagaria	P	P	P	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P