A

Report on

ONE WEEK TRAINING PROGRAMME FOR TECHNICAL ASSISTANTS

On

"Lab fundamentals, Maintenance and Virtualization"

Jointly Organized by

Department of Electronics & Communication Engineering and

SKIT-ISTE student chapter, SKIT Jaipur

18th -23rd July, 2022

Coordinators:

Prof Mukesh Arora, HoD, ECE, SKIT, Jaipur

Dr. P.K. jain, Dy. HoD, ECE, SKIT, Jaipur

Mr. Pallav Rawal, Asst Professor, ECE, SKIT, Jaipur

Ms. Suman Sharma, Asst Professor, ECE, SKIT, Jaipur

Mr. Dinesh Kumar, Asst Professor, ECE, SKIT, Jaipur

Mr. Anil Verma, Sr. Technical assistant, ECE, SKIT, Jaipur

Objective: The main objective of this training program is to make technical assistants aware about the networking fundamentals, virtualization and Maintenance of the laboratories.

Program detail:

One week training program for technical assistants on "Lab fundamentals, Maintenance and Virtualization" was organized by Department of Electronics and Communication Engineering of Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur (India) during July 18-23, 2022. It was conducted in offline mode. All the technical staff members of ECE department participated for this program.

Training Program was inaugurated on **July 18, 2022** in the presence of Prof Mukesh Arora, HoD, ECE, Dr. P.K.Jain, Dy. Head, ECE and all the coordinators of the event.

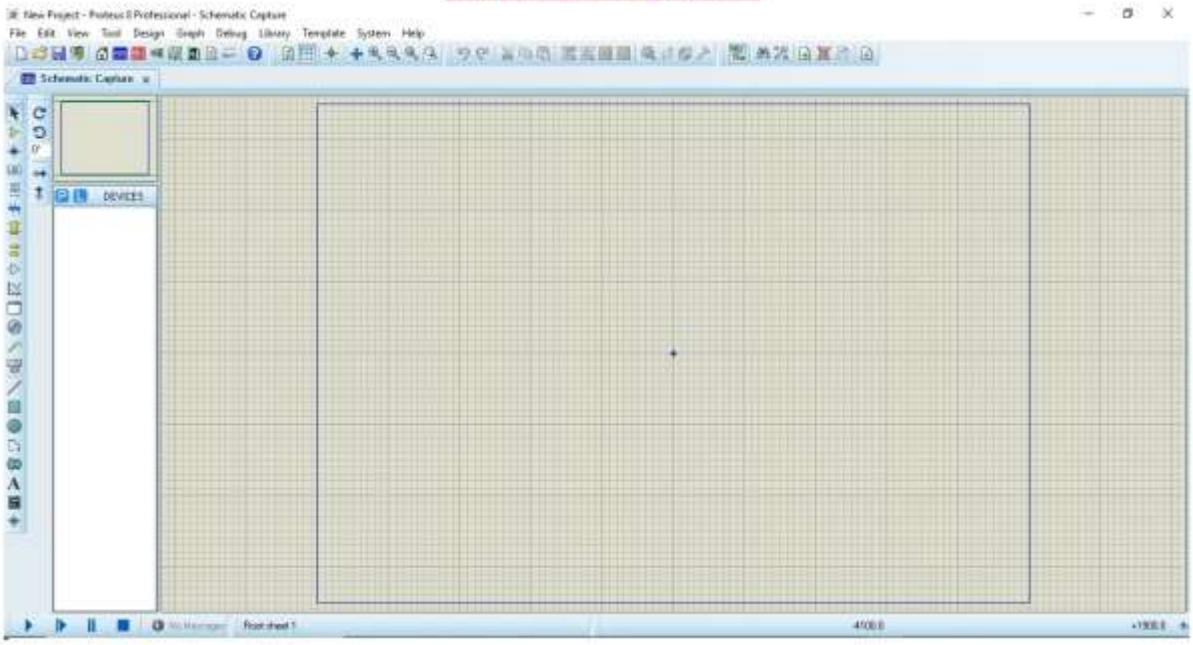
At the beginning of the program, Prof. Dr Mukesh Arora, HoD ECE, SKIT, Jaipur congratulated to all the coordinators for conducting this training program. Praveen Kumar Jain addressed the participants with the benefits of this program and Mr. Dinesh Kumar shared the detailed draft of the training program with all the participants.

Day wise schedule of :the program was as follows:

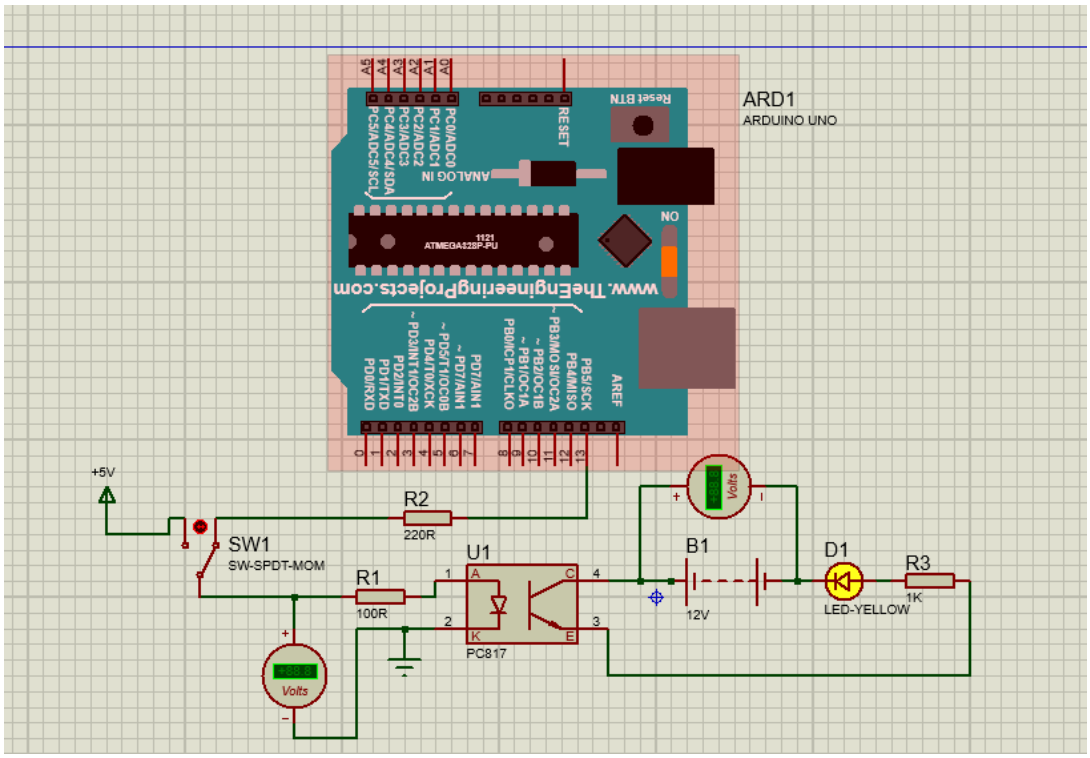
Day 1 – Session 1:

In this session, Mr. Dinesh Kumar, Assistant Professor, ECE department, SKIT, Jaipur introduced the participants with the "Introduction of proteus virtualization". He explained detailed introduction to "proteus- a circuit designing software" and its different elements. It used to design different circuits on PCB (printed circuit board) and simulation of different circuits. The use of proteus for any electronic circuit project makes that project cost-effective and less errored due to schematic construction on the proteus.

Introduction to Proteus

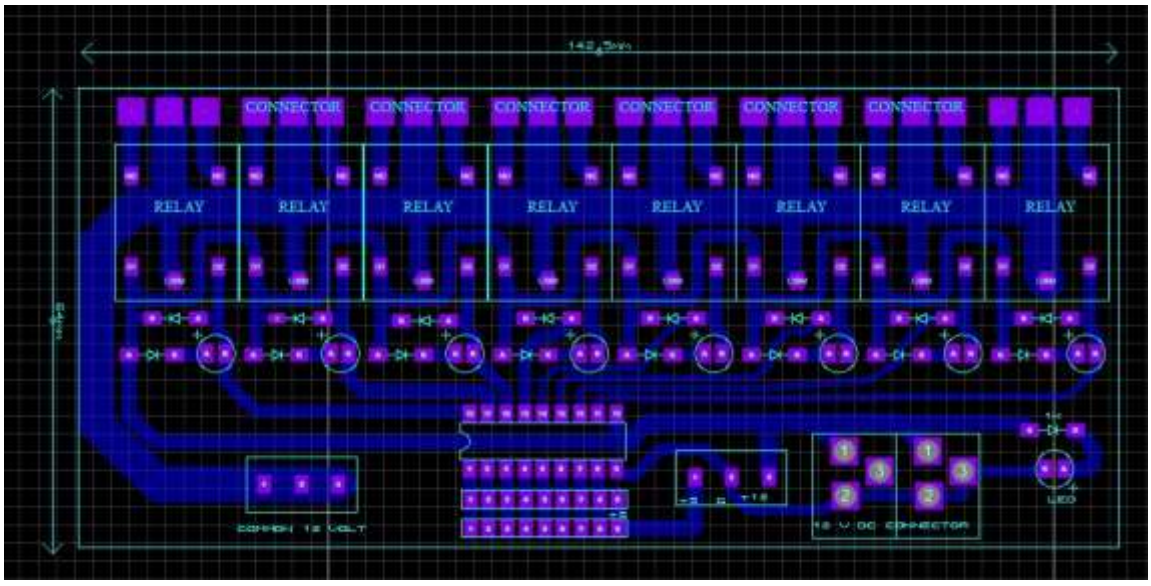


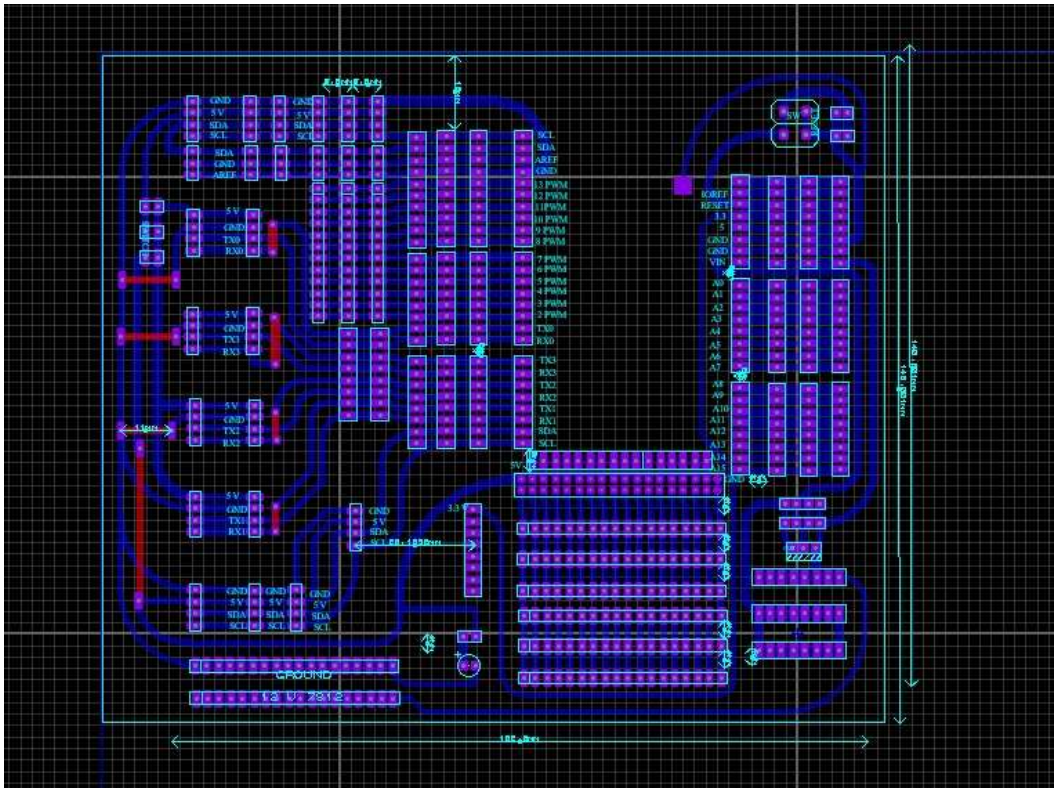
Day 1 – Session 2: Hand on practices on Optocoupler Based Isolation Between Alternate current and Low voltage processor ports by Mr. Dinesh Kumar, Assistant Professor, ECE department, SKIT, Jaipur



Day 2 – Session 1:

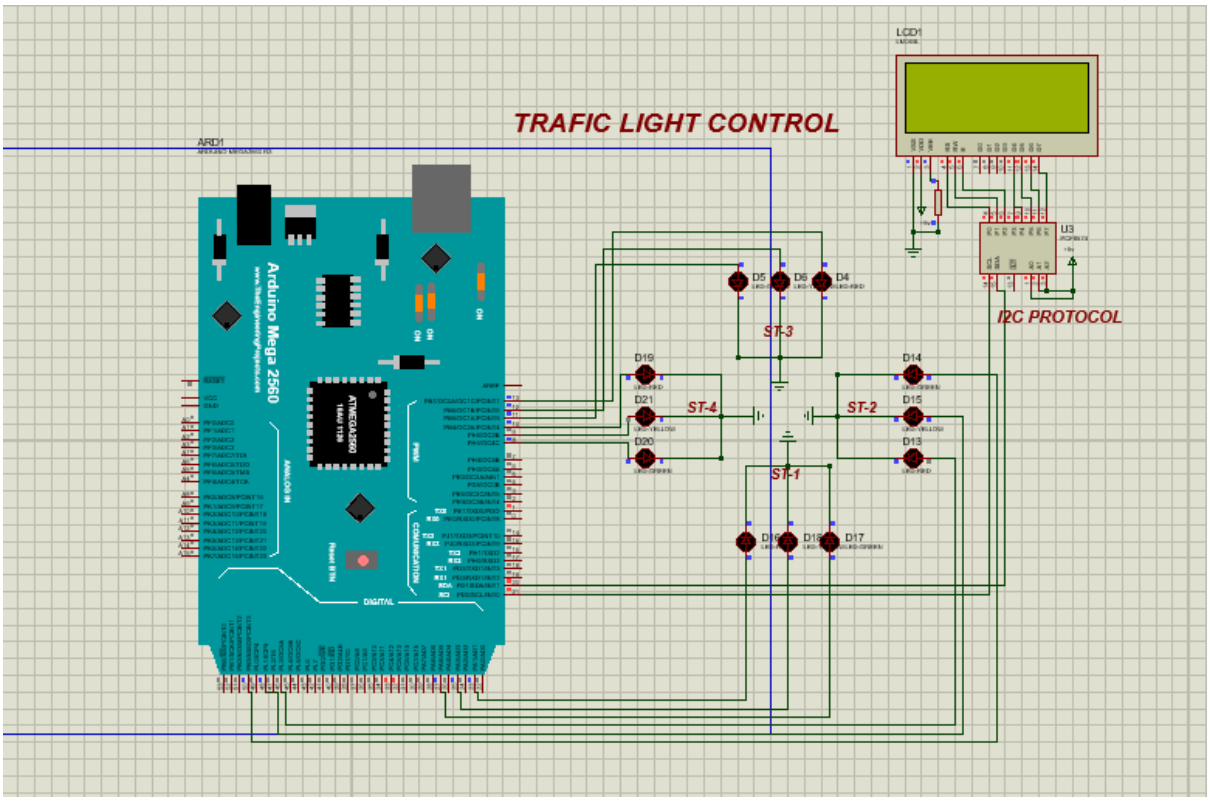
In this session, Mr. Dinesh Kumar, Assistant Professor, ECE department, SKIT, Jaipur introduced the participants with the “PCB Designing on Proteus platform”. He explained the process with the 12 volt relay board with uln 2803 and Arduino mega kit for i2c and SPI protocalk.





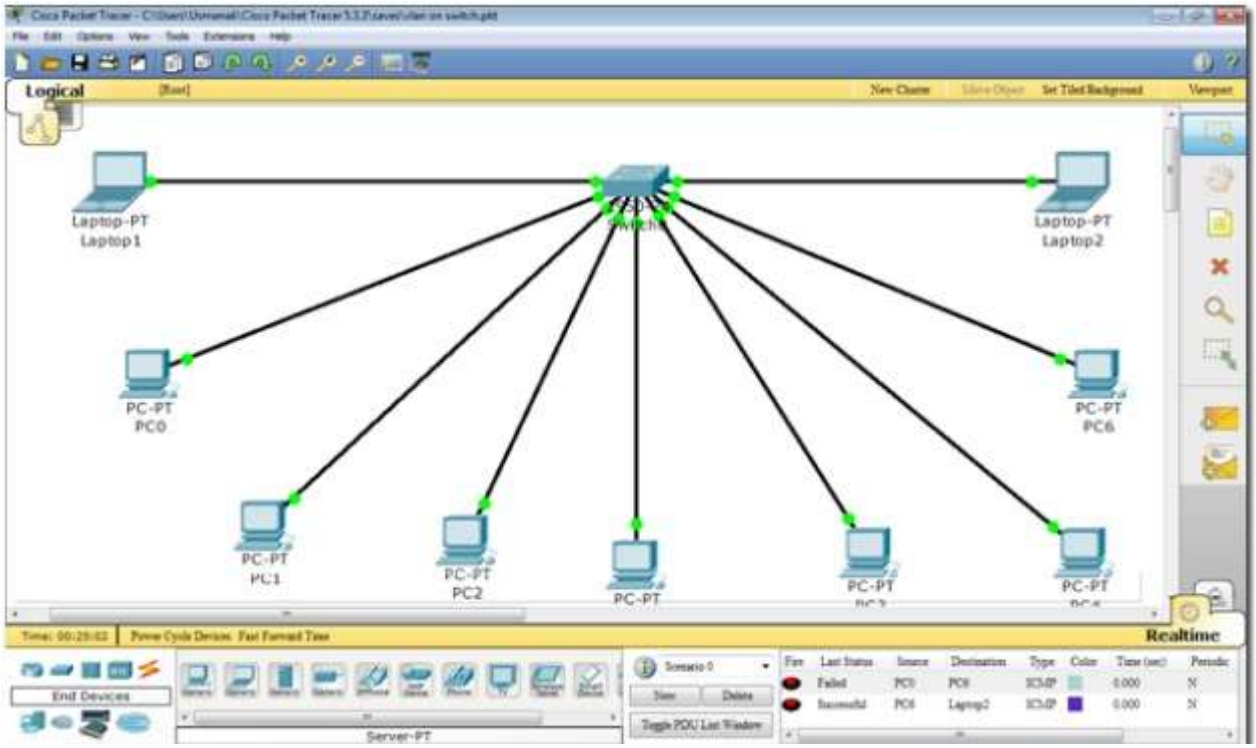
Day 2 – Session 2

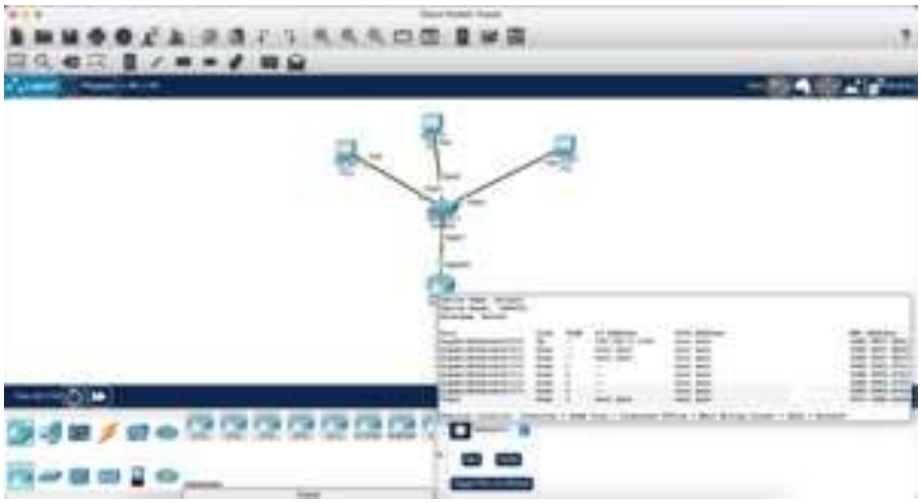
In this session, Mr. Dinesh Kumar, Assistant Professor, ECE department, SKIT, Jaipur took hand on session on “PCB Designing on Proteus platform”.



Day 3 – Session 1

In this session, Mr. Dinesh Kumar, Assistant Professor, ECE department, SKIT, Jaipur introduced the participants with the “Networking fundamentals”. He explained the Switches, Routers, Firewall and Access Points.





Day 3 – Session 2

In this session, Dr. Praveen Kumar jain, Dy. Head, ECE department, SKIT, Jaipur explained the participants about “Lab Maintenance”. He told about the importance of Lab Maintenance in the NBA and NAAC visits. He explained how to maintain lab equipments and lab records and suggest to keep the laboratories clean.

Day 4

In Session 1, Mr. Pallav Rawal, Assistant Professor, ECE department, SKIT, Jaipur took a technical session on "Antenna designing on HFSS" and in session 2 Mr. Pallav Rawal and Ms. Suman Sharma explained the complete antenna fabrication process in PCB lab.

Day 5

In Session 1, Mr. Dinesh Kumar, Assistant Professor, ECE department, SKIT, Jaipur explaind to participants about "Data Communication between LAN to Optical fiber and vice a versa" and in session 2 he explained about" Packet tracer (Virtual environment of networking"

Day 6

In session 1 Mr. Anil Kumar Verma, Sr. Technical Assistant explained some of the major experiments conducted in all the laboratories. In session 2 there was a Valedictory Session. Mr. Pallav Rawal concluded all the sessions conducted in the training program and Ms Suman Sharma gave thanks to all the participants for attending the training program.

LIST OF PARTICIPANTS

S. No.	Participant Name	Designation	Department	Institute
1	Meenu Pradhan	Technical Assistant	ECE Department	SKIT, Jaipur
2	Sunil Acharya	Technical Assistant	ECE Department	SKIT, Jaipur
3	Dhurendra Singh	Technical Assistant	ECE Department	SKIT, Jaipur
4	R.S.Ola	Technical Assistant	ECE Department	SKIT, Jaipur
5	Kumari Renu	Technical Assistant	ECE Department	SKIT, Jaipur
6	Prema Ram	Technical Assistant	ECE Department	SKIT, Jaipur
7	Khemraj Lakhara	Technical Assistant	ECE Department	SKIT, Jaipur
8	Suresh Kumawat	Technical Assistant	ECE Department	SKIT, Jaipur
9	Sushama	Technical Assistant	ECE Department	SKIT, Jaipur
10	Ruchi Mahawar	Technical Assistant	ECE Department	SKIT, Jaipur

Photographs of Program:

Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur-302017
Department of Electronics & Communication
and
SKIT-ISTE student chapter
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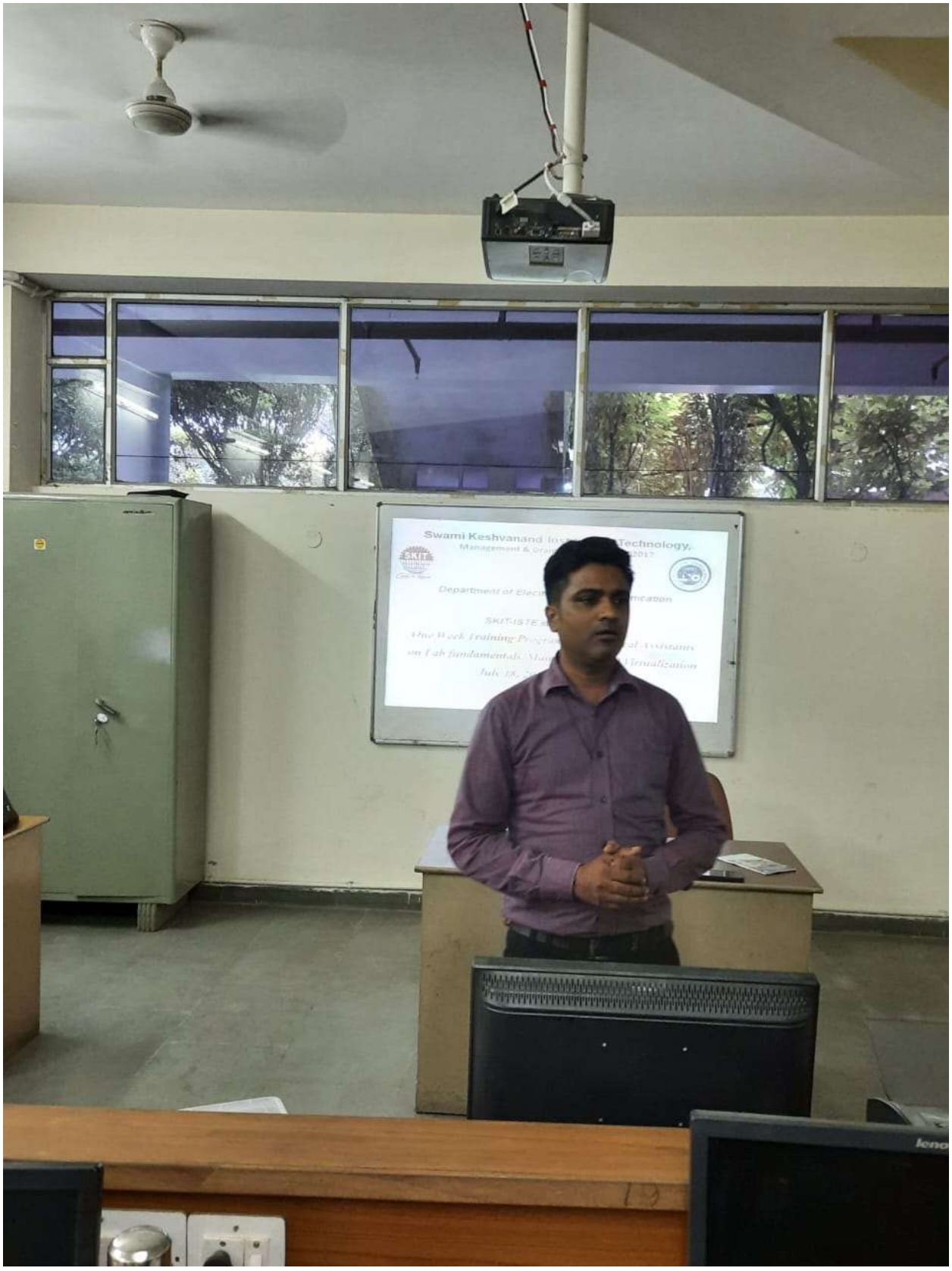
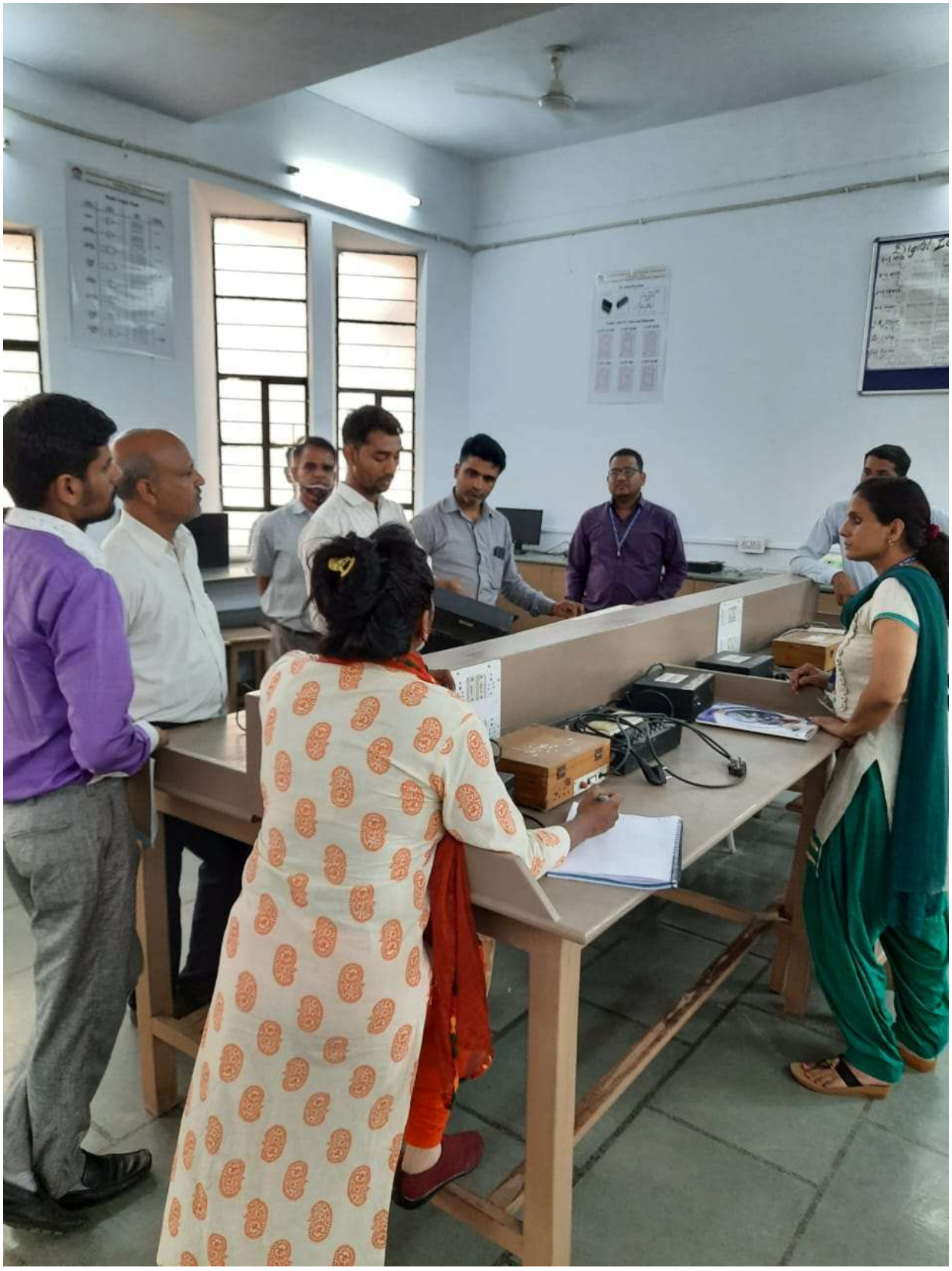
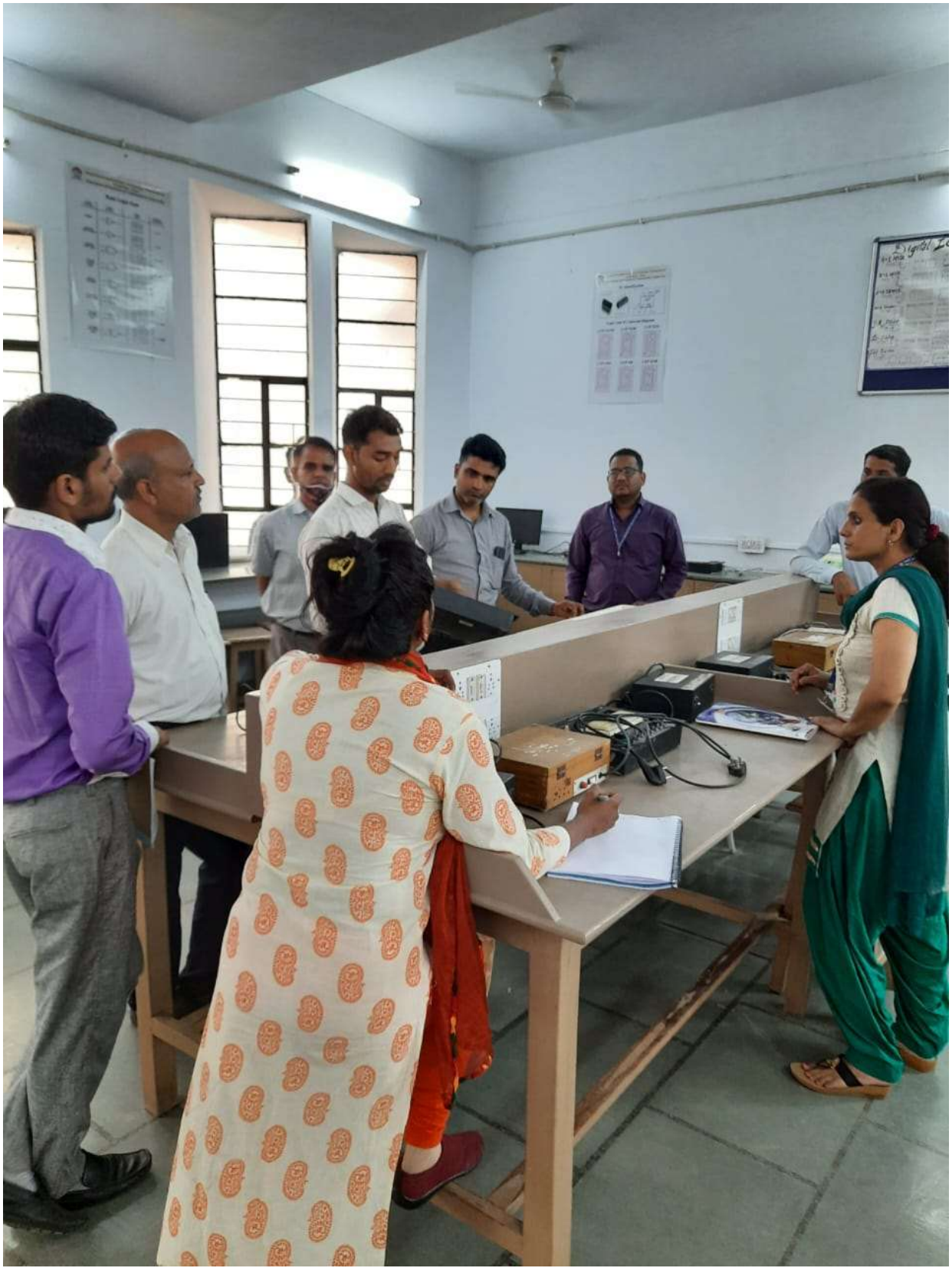

Swami Keshvanand
Technology,



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
Department of Electronics & Communication Engineering
Different Types of Bridges
Maxwell Inductance Bridge
Wien's bridge
SKIT, JAIPUR