DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Report on Faculty Orientation Programme for Lab Courses

Even Semester, Academic Year: 2025-26

Format: 9014/0

Organized by : Electronics & Communication Engineering

Venue : Respective Laboratories at Vidhra Block

Date(s) : 11.12.2025 & 12.12.2025

Timings : 9.30 am to 4.30 pm

Conducted for: Lab Handling Faculty Members of ECE department

Panel Members:

1. **Dr. B. Raghavaiah, Professor (HoD- ECE)**
2. **Dr. J. Prasanth Kumar, Professor (Senior Faculty- ECE)**

List Lab Handling Faculty Members:

S. No.	Name of the Lab	Name of the Faculty Member	Name of the Lab Technician
II SEMESTER			
1	Network Analysis Lab	Mrs. G. Bindu Pavani	Mr. K. Vijay Bhaskar
		Mrs. T. Vinoditha	
IV SEMESTER			
1	Electronic Circuit Analysis Lab	Dr. G. Srilatha	Mr. K. Vijay Bhaskar
		Mrs. Y. Lavanya	
		Mrs. K. Jeevana Jyothi	
		Mrs. Ch. Lakshmi	
		Mr. P. Bala Krishna	
2	Signals and Systems Lab	Dr. BSC Avinash	Mrs. S. Bhanu Keerthi
		Mr. G. Sandeep V Padmakar	
		Mrs. B. Suneetha	
		Mrs. P. Bhuvana Sri	
		Ms. G. Bindu Pavani	

VI SEMESTER			
1	VLSI Design Lab	Dr. K. Raju Mrs. ANL Harisha Mrs. B. Suneetha Mrs. K. Jeevana Jyothi Mr. Y. Naveen Kumar	Mrs. D. Naga Mani
2	Design of PCB & Antennas Lab	Dr. J Prasanth Kumar Dr. NVDP Murthy Dr. G. V. Vinod Dr. BSC Avinash Mrs. G. Suneetha Mrs. P. Bhuvana Sri Mrs. Ch. Lakshmi	PCB Lab: Mr. K. Vijay Bhaskar Antennas Lab: 1. Mrs. J. Baby 2. Mrs. P. Bala Jyothi

1. Report in brief by Organizer / Coordinator / Convener:

The laboratory orientation programme was systematically organized with the objective of familiarizing faculty members with laboratory objectives, experiments, equipment usage, and effective strategies for conducting practical sessions. The programme aimed to strengthen conceptual clarity, procedural understanding, and confidence in handling laboratory courses, while ensuring uniformity in laboratory instruction and assessment practices across the department.

The programme focused on providing a comprehensive overview of each laboratory course, including the list of experiments, expected learning outcomes, mapping of experiments to course outcomes, and the relevance of practical work to theoretical concepts and real-world applications. Emphasis was also placed on laboratory safety protocols, standard operating procedures, proper handling of instruments, and maintenance of laboratory records.

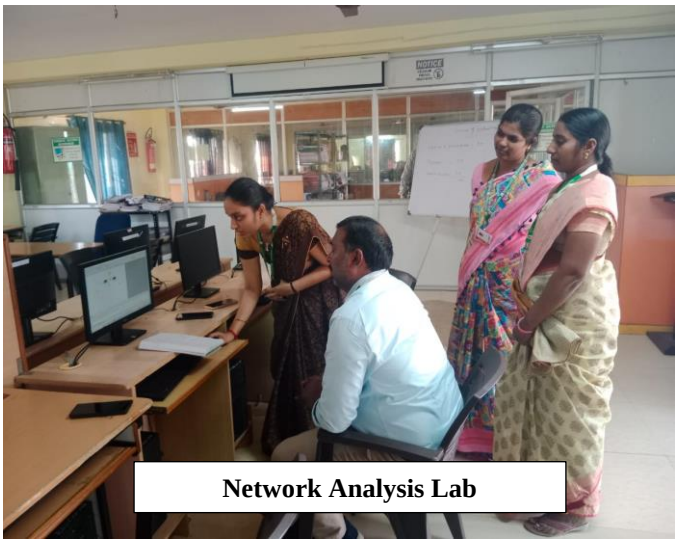
As part of the programme structure, each faculty member responsible for a specific laboratory course was allotted a dedicated session. During this session, the faculty member presented details of the laboratory syllabus, explained the objectives and procedures of individual experiments, highlighted critical observations, and identified common difficulties faced by students while performing experiments. Methods for evaluating students' practical skills, record work, viva voce, and continuous assessment were also discussed.

The orientation sessions encouraged active interaction among faculty members, promoting the exchange of ideas, clarification of doubts, and sharing of best practices related to laboratory instruction. Challenges related to student preparedness, time management, equipment availability, experiment repeatability, and assessment uniformity were openly discussed. Based on collective inputs, suitable improvements and corrective measures were suggested to enhance the effectiveness of laboratory sessions.

The feedback and recommendations provided during the programme helped laboratory-handling faculty refine experimental procedures, adopt innovative teaching and demonstration techniques, and implement effective monitoring mechanisms to assess students' practical competence. Overall, the laboratory orientation programme served as a valuable platform for professional development,

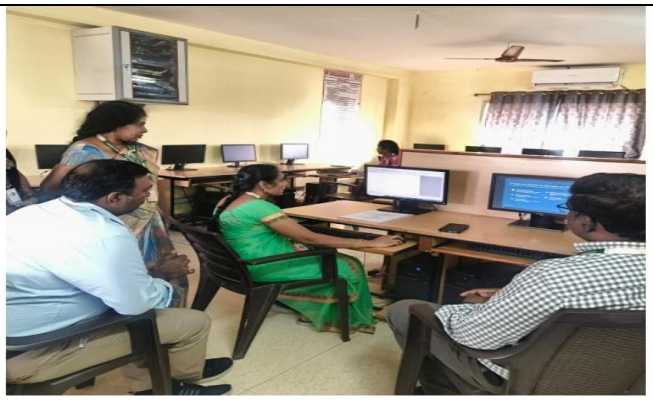
collaborative learning, and continuous improvement in laboratory teaching–learning practices within the department.

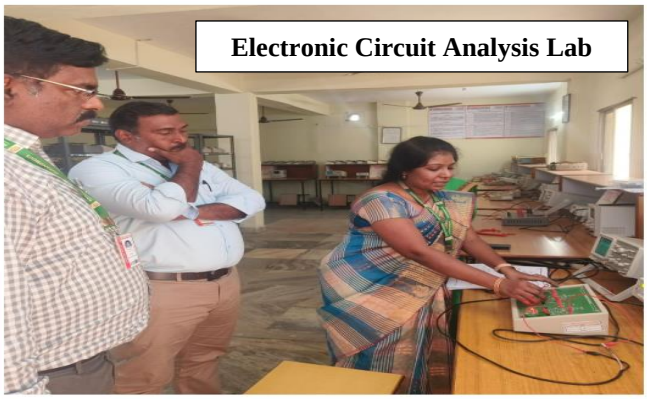
2. Photos:



Network Analysis Lab

Signals and System Lab

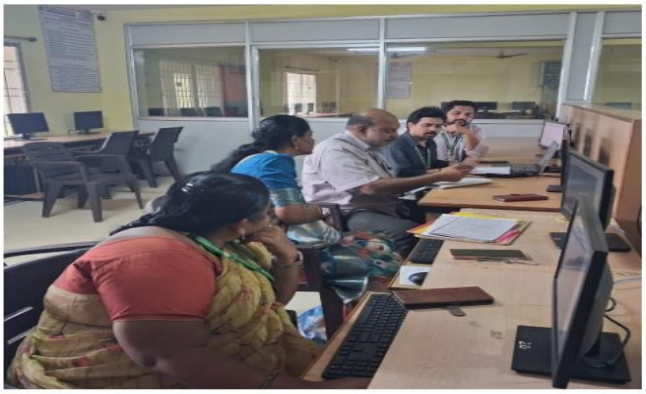
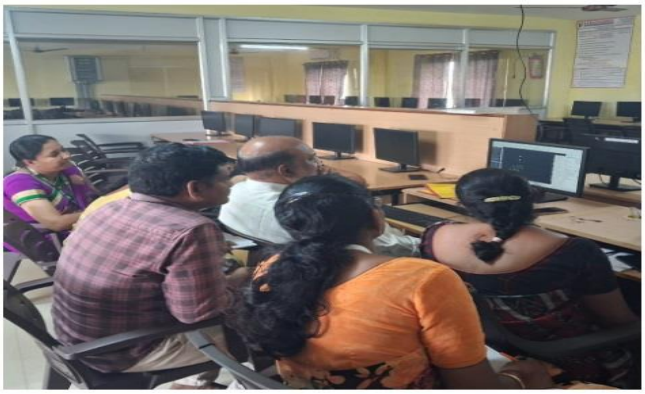
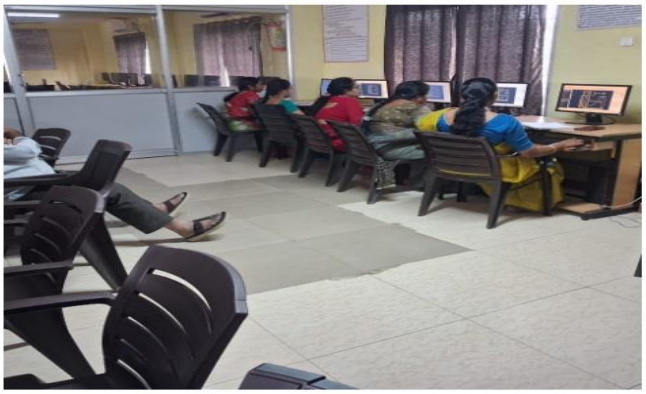




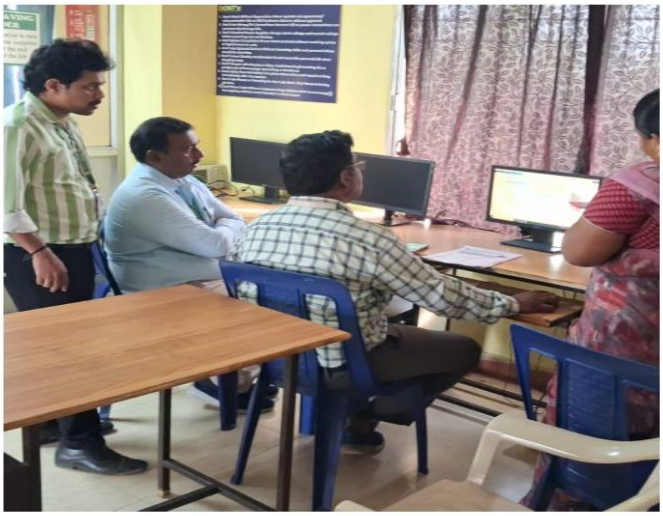
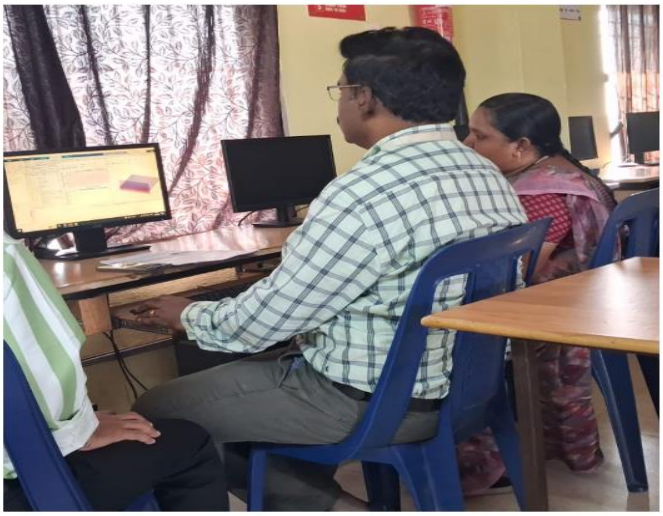
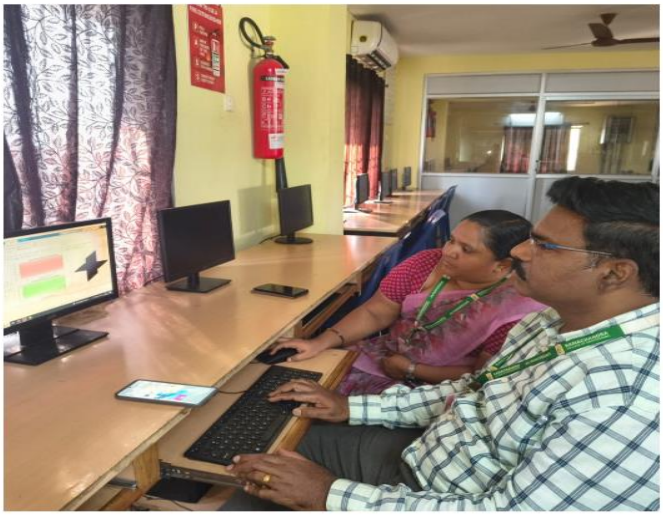
Electronic Circuit Analysis Lab

VLSI Design Lab

PCB Design Lab

Antenna Design Lab


3. Overall Feedback on the Programme
The Head of the Department and senior faculty members appreciated the systematic organization of the laboratory orientation programme and its alignment with Outcome-Based Education practices. They highlighted that the programme effectively enhanced clarity on laboratory objectives, experiment execution, safety practices, and assessment methodologies. The interactive discussions were found to be valuable in addressing common challenges and ensuring uniformity in laboratory instruction. Overall, the programme was commended for contributing to faculty development, academic consistency, and continuous improvement in laboratory teaching–learning processes.

HoD

Dean-Academics

Principal