

**Club Activity on “Circuit Design
Challenge Using PSPICE”
Department of IIOT**

Report on Club Activity “Circuit Design Challenge Using PSPICE”

Overview

The department of Industrial Internet of Things Engineering organized *IIOT club activity on “Circuit Design Challenge Using PSPICE”*. Participating students across IIOT stream exhibited their knowledge in theory and simulation in this competition. This competition is a two-round competition with the ingenuity, analytical skills, and understanding of simulation problems. First round was a MCQ test based on the simulation software, analog and digital electronics basics and second round was a simulation test using PSPICE simulation tool. This was conducted and coordinated by Dr.M.Thilagaraj (HOD/IIOT) and Dr. Subhradip Mukherjee (AP/IIOT). 49 students from 2nd and 3rd Year IIOT department participated in this event. The program was started at 9.30AM on 13thDecember 2024.

The chief guest for the program was Ms Anandi Giridharan, Principal Research Scientist, Indian Institute of Science, Bangalore, Karnataka, India. She was welcomed by Dr. M Thilagaraj (HOD/IIOT) and Dr. Subhradip Mukherjee (AP/IIOT).



Figure 1: Round 1 - Circuit Design Challenge using PSPICE competition organized on
13.12.2024

A total of 49 participants competed in the event. For the students, this was an opportunity to apply their technical knowledge in practical situations, and thereby even learn soft skills like perseverance and sportsmanship. At the end of Round 1, based on their performance of MCQ questions evaluation only 30 students were selected for Round 2. Then the students were given circuits for design on spot and simulation was verified by the chief guest. The Round 2 competition started at 2.00PM and came to an end at 2:30 PM with the winner and runners of the competition announced by the chief guest. The winner of the competition was Mr.Pradeep Veerabhadra Hegde and the runner was Ms.Prerana Harish Gubbi.



Figure 2: Round 2 –Students actively designing the circuit using PSPICE



Figure 3: Participants during the competition.

Outcomes:

1. Competitors can solve improved circuit design and analysis skills using PSPICE.
2. They can also develop enhanced problem-solving and critical thinking skills.