



Report On Expert Lecture

**Use of Virtual lab for AC Machine Performance
Analysis**

Arranged by

Electrical Engineering Department,

A.Y.DADABHAI TECHNICAL INSTITUTE, KOSAMBA

REPORT ON EXPERT LECTURE

DATE:- 07TH March 2024

DEPARTMENT:- Electrical Engineering

SEM:- 3RD SEM

FACULTY: - (1) Mr M A Shaikh

(2) Mr P J Patel

NO OF STUDENTS: - 58

Name Of Expert	Designation	Organization Of Expert
Mr. Vasim H. Ghanchi	Lecturer	Government Polytechnic Chhotaudepur

Topic Of Expert Lecture: -Use of Virtual lab for AC Machine Performance Analysis

Brief about Expert Lecture:-

Our electrical engineering department of A. Y. Dadabhai Technical Institute, Kosamba Had organized expert lecture on“**Use of Virtual lab for AC Machine Performance Analysis**” on the date of 07th March2024.

In this lecture expert highlighted the significance of virtual labs in providing a hands-on experience to students and professionals alike, enabling them to comprehend complex concepts without the constraints of physical equipment. By using virtual simulations can explore various operating conditions, conduct experiments, and analyze results in a safe and cost-effective environment. The lecture emphasized the role of virtual labs in bridging the gap between theoretical knowledge and practical application, thereby enhancing the learning outcomes in the field of electrical engineering.

Expert also explain how these tools offer a dynamic interface to simulate different scenarios, such as load variations, voltage fluctuations, and fault conditions, enabling users to observe real-time responses and phenomena. The integration of advanced algorithms and models in

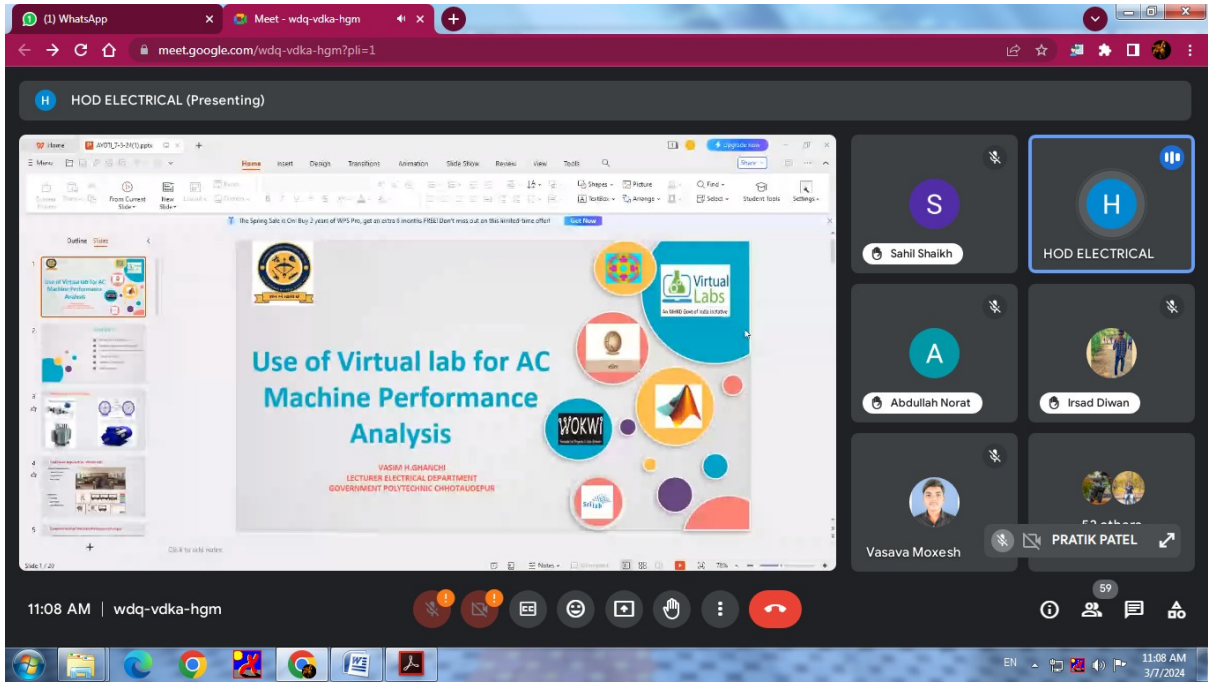
virtual lab environments allows for accurate prediction and analysis of machine behavior, facilitating deeper insights into performance optimization and troubleshooting strategies. Overall, the expert lecture provided a compelling argument for the widespread adoption of virtual labs in academia and industry, highlighting their transformative potential in fostering innovation and mastery in the domain of AC machine engineering.

And student also enjoy this session and they know how to use virtual labs and how it is useful to them in future for different simulation

PHOTO'S OF EXPERT LECTURE

The screenshot shows a Google Meet window with a presentation slide. The slide title is "Use of Virtual lab for AC Machine Performance Analysis". The presenter is identified as "HOD ELECTRICAL (Presenting)". The slide content includes logos for "Virtual Labs" and "WOKWI", and text identifying the presenter as "VASIM R. GHANVICH, LECTURER ELECTRICAL DEPARTMENT, GOVERNMENT POLYTECHNIC CHHATTADEPUR". The meeting interface shows several participants: Sahil Shaikh, HOD ELECTRICAL, Abdullah Norat, Irasad Diwan, Vasava Moxesh, and PRATIK PATEL. The time is 11:08 AM on 3/7/2024.

The screenshot shows a Google Meet window displaying a virtual lab interface. The title of the lab is "Speed control of slipping Induction Motor". The interface includes a circuit diagram with a 3-phase induction motor, a rheostat, and various meters (MCP, Voltmeter, Ammeter, Wattmeter). A table on the right shows parameters: S.No., Current (A), Power (W), and Speed (RPM). The interface also features buttons for "Restriction", "Check", "Add to list", "Graph", "Reset", and "Pause". The presenter is identified as "PRATIK PATEL". The time is 11:34 AM on 3/7/2024.



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