

**Circular****Ref. No. AJU/AD/ENGG/038/2025-26****Date: 19.08.2025**

The expert Lecture on "Electrical and Electronics Measurements" is going to be jointly organized by Department of Electrical and Electronics Engineering, School of Engineering & IT, and ARKA JAIN University in association with Innovation Council Cell from 27/08/2025 on Diploma 3rd Semester EEE Students.

Link for registration: <https://forms.gle/Qh5889NAX6twNWXq5>

Mode of learning: ONLINE Mode

Registration fee: Nil

Max no. of Participants: 35

Last Date for Registration: 26.08.2025 (till 7:00.P.M)

Coordinators:

Prof. Taniya Ghosh (taniya.g@arkajainuniversity.ac.in)

Convenor:

Dr. Ashwini Kumar
Assistant Dean
School of Engineering & IT
Arka Jain University, Jharkhand

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EXPERT LECTURE ON “ELECTRICAL & ELECTRONICS MEASUREMENTS”

Date of Event	27/08/2025
Name of the Event	Expert Lecture on “Electrical and Electronics Measurements”
Type of the Event	Skill Development on Electrical & Electronics Measurements
Conducted by	School of Engineering & IT, ARKA JAIN UNIVERSITY JHARKHAND
Resource Person	Prof. Samarjit Singh Assistant Professor, Department of Electrical Engineering Yoshoda Technical Campus, Satara, Maharashtra
Convener	Dr. Ashwini Kumar
Co-Ordinator	Prof. Taniya Ghosh (Assistant Professor)
No. Of Participants	30

OBJECTIVE:

The objective of the expert lecture was to provide participants with a comprehensive understanding of **electrical and electronic measurement techniques**, instruments, and their critical role in analyzing and controlling electrical systems. The session aimed to:

1. **Introduce the fundamental principles** of measurement systems, including accuracy, precision, resolution, and error analysis.
2. **Familiarize participants with standard measuring instruments** such as voltmeters, ammeters, multimeters, oscilloscopes, wattmeters, and digital measurement systems.
3. **Explain modern measurement techniques** used in both analog and digital domains for real-time data acquisition and system monitoring.
4. **Highlight the significance of measurement in system design**, testing, calibration, and fault detection in various electrical and electronic applications.
5. **Bridge the gap between theory and practice** through real-world examples, case studies, and practical insights into laboratory and industrial measurements.
6. **Encourage students and faculty** to adopt accurate measurement practices in research, lab work, and professional projects.

DETAILS:

An Expert Lecture on Electrical & Electronics Measurements was organized by the School of Engineering & IT, ARKA, JAIN University on August 27, 2025. The lecture aimed to provide participants with comprehensive knowledge and technical insights into the principles, techniques, and applications of electrical and electronic measurements in modern engineering systems. The session covered a wide range of topics, including measurement fundamentals, accuracy and precision, types of measuring instruments (analog and digital), signal conditioning, and data acquisition systems. Special emphasis was placed on the application of measurement techniques in laboratories, industrial automation, and smart monitoring systems. The objective of the lecture was to enhance participants' understanding of the critical role of measurements in system design, testing, calibration, and maintenance. It also aimed to introduce students and faculty to modern tools and technologies, such as digital multimeters, oscilloscopes, smart sensors, and embedded measurement systems, which are widely used in today's electrical and electronics industry. The event was conducted in online mode via Google Meet, ensuring accessibility for students of 3rd semester Diploma EEE of the university, who were actively encouraged to participate. The session expert was Prof. Samarjit Singh, Assistant Professor, Department of Electrical Engineering, Yoshoda Technical Campus, Satara, Maharashtra. and this Successfully coordinated by Prof. Taniya Ghosh (Asst. Professor) Dept. of E.E.E., School of Engg. & I.T.

OUTCOMES:

- 1. Enhanced Conceptual Understanding**
Participants gained a deeper understanding of key measurement concepts such as accuracy, precision, resolution, sensitivity, and types of errors in measurement systems.
- 2. Familiarity with Measuring Instruments**
The lecture provided detailed insights into the working and application of both analog and digital instruments, including voltmeters, ammeters, wattmeters, multimeters, and oscilloscopes.
- 3. Knowledge of Signal Conditioning and Data Acquisition**
Attendees were introduced to the role of signal conditioning circuits and data acquisition systems in processing and analyzing electrical signals for accurate measurement.
- 4. Real-World Application Awareness**
The session demonstrated the importance of measurement techniques in real-life scenarios such as industrial automation, power systems monitoring, electronics testing, and calibration labs.
- 5. Exposure to Modern Trends in Measurement**
Participants were made aware of modern developments in the field, such as the use of smart sensors, embedded systems, and IoT-enabled measurement tools in electrical engineering.
- 6. Improved Practical Approach**
The lecture bridged the gap between theoretical knowledge and practical application, encouraging students to apply accurate measurement practices in labs and project work.
- 7. Inspiration for Research and Development**
The expert talk encouraged students and faculty to explore innovations and research

opportunities in the field of precision measurement, instrumentation, and embedded monitoring systems.

8. Interactive Learning Experience

The session promoted active engagement through Q&A interactions, encouraging curiosity and clarification of doubts related to instrumentation and measurements.

POSTER OF THE EVENT



Poster of the Expert Lecture: Electrical & Electronics Measurements

PHOTOS OF THE EVENT

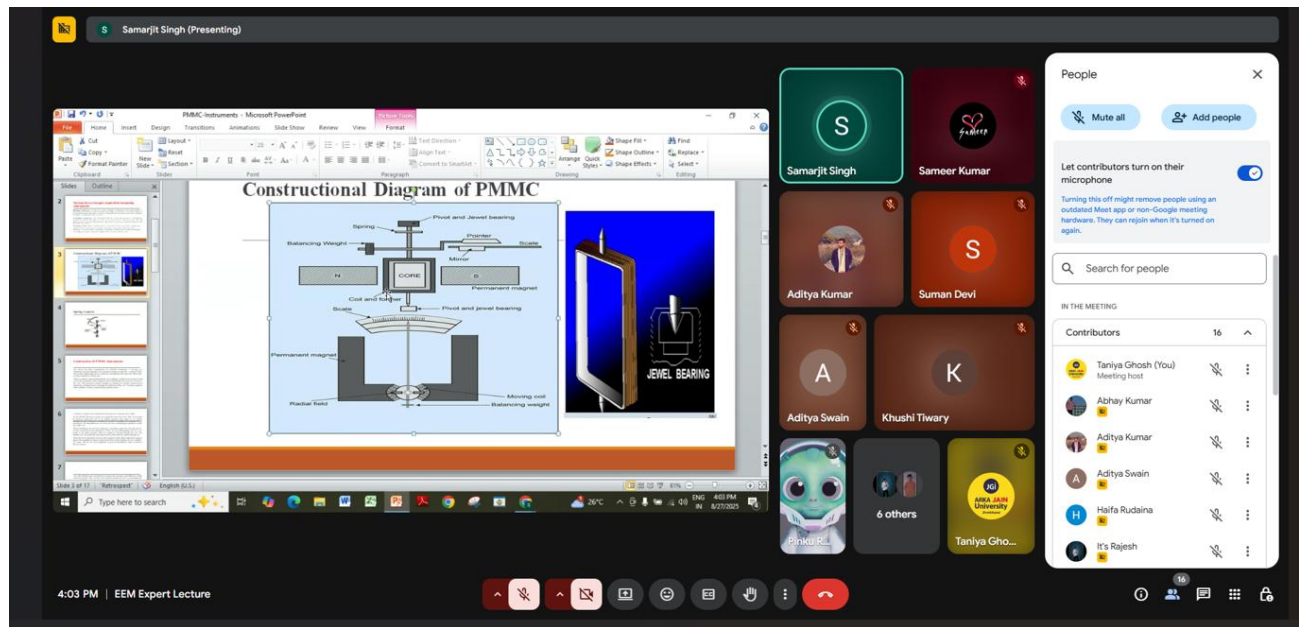


Fig 1 Screenshot of the Event

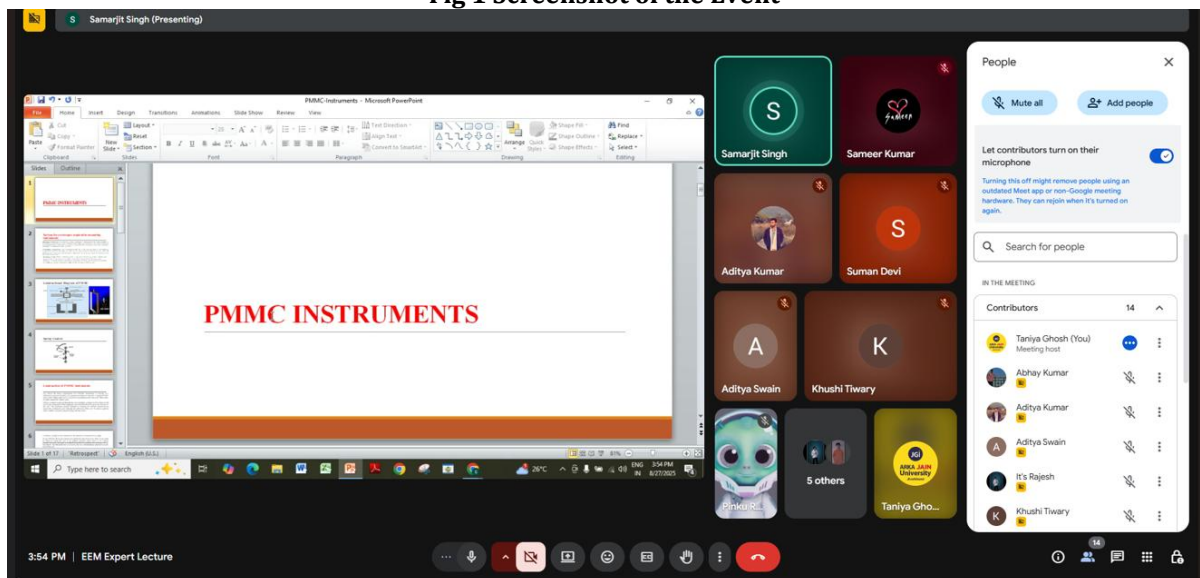


Fig 2 Screenshot of the Event

Feedback Analysis Participants Attending the Session

Student Feedback Analysis							
S. no	Description	Rating Scale					Total
		1	2	3	4	5	
1	I'm happy with the amount of information presented in today's sessions.	0	0	0	4	26	30
2	Did the event help you with new learnings or knowledge?	0	0	0	0	30	30
3	The duration of the event was just right. (Not too long or not too short)	0	0	0	29	1	30
4	Would you say the speakers or presenters were knowledgeable?	0	0	0	0	30	30
5	Overall, how satisfied were you with the event?	0	0	0	01	29	30

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