



A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru -575006, D. K District, Karnataka, INDIA.

A Unit of Laxmi Memorial Education Trust®

(Approved by AICTE, New Delhi. Affiliated to Visveswaraya Technological University,
Belagavi)

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Date:30/08/2025

Report on “Transforming Experiment into Experience”

Name of the Program:	From real to virtual: Transforming Experiment into Experience	Program Dates & Timings:	30-08-2025 9.30 AM to 4.00 PM		
Name & Details of the Resource Person:	Mr. Prasad B. G and Mr. Sudheer Kini Dept. Mechanical Engineering A J Institute of Engineering & Technology				
Organized by (Clubs/ Dept.)	ARMS	In Association with (clubs)			
Number of Participants	50	Students	50	Faculty	03
Program Outcome (PO) Mapping	PO1, PO5, PO9				
Coordinators	Dr. Vighnesha Nayak, Dr. Nithesh K				

About the Program: The one-day workshop “From Real to Virtual: Transforming Experiment into Experience” is designed to bridge the gap between conventional laboratory experiments and modern virtual simulations. With rapid advancements in digital technology, industries and academia are increasingly adopting simulation tools to enhance accuracy, efficiency, and cost-effectiveness in engineering practices.

This programme aims to provide participants with insights into how real-world experiments can be effectively translated into virtual platforms, enabling them to visualize, analyze, and interpret results in a more interactive manner. Through expert sessions, demonstrations, and hands-on exposure, students will gain the ability to connect theoretical knowledge with practical applications, while also developing essential problem-solving, teamwork, and communication skills.

The workshop will help participants understand the relevance of simulation-based learning in engineering education and prepare them with skills aligned to modern



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industry expectations. Ultimately, it contributes to bridging the syllabus gap and enhancing placement readiness for students aspiring to build careers in leading companies.

The session was delivered by Mr. Prasad B.G and Mr. Sudheer Kini, Assistant Professor, Department of Mechanical Engineering, A J Institute of Engineering & Technology. The primary objective of this workshop is to equip students with skills to translate real experiments into virtual simulations, enhancing understanding, problem-solving, and industry readiness.

The session began with the resource persons explaining the theoretical aspects, which helped students build a strong foundation before moving to applications. A basic knowledge test was conducted to evaluate the students' understanding and encourage active engagement. This was followed by demonstrations of simulations, where students could practically compare the virtual results with real experimental outcomes. The resource persons also guided the participants on exploring more practical applications through simulations, showcasing how virtual tools can enhance learning and problem-solving skills.

An interactive Q&A session enabled participants to clarify their doubts on simulations and practical applications, while also gaining guidance on exploring real-to-virtual experimental approaches. The session proved to be highly engaging, motivating students to adopt simulation-based learning and apply it effectively to problem-solving and industry-oriented practices.

The event concluded with a vote of thanks, expressing gratitude to Mr. Prasad B.G and Mr. Sudheer Kini for sharing their expertise, and to the management of AJIET for providing a platform to promote innovation-oriented learning among students. The programme was successfully organized by the Association of Royal Mechanical Students (ARMS).

Objectives: The program Start-up Pitch Session enable students to

1. To provide students with hands-on exposure to simulations that replicate real-world experiments, enabling them to compare and analyze practical outcomes.



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2. To encourage students to explore practical applications through virtual tools, enhancing problem-solving skills and preparing them for industry-relevant practices.

Outcomes: On successful completion of program, the student should able to:

1. Students gained the ability to understand and apply simulation tools for replicating real experiments.
2. Participants developed analytical and problem-solving skills by comparing virtual results with practical outcomes.
3. The workshop enhanced student's readiness for industry-oriented practices by bridging the gap between theoretical knowledge and hands-on applications.

Articulation Matrix:

Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	-	-	-	3	-	-	-	1	-	-	-
2	3	-	-	-	3	-	-	-	1	-	-	-
3	2	-	-	-	2	-	-	-	1	-	-	-
4	2	-	-	-	3	-	-	-	1	-	-	-
Average	2.5	-	-	-	2.75	-	-	-	1	-	-	-



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Photos:



Event Coordinator

HOD- ME

Dean (Academics)

Principal



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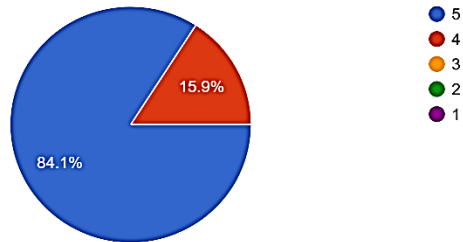
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FEEDBACK:

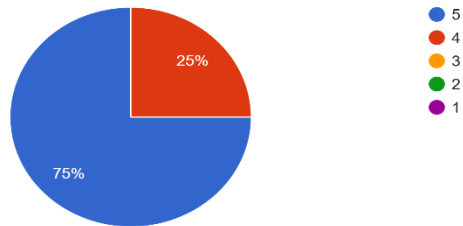
1. How relevant was the workshop content to your interests and needs?

44 responses



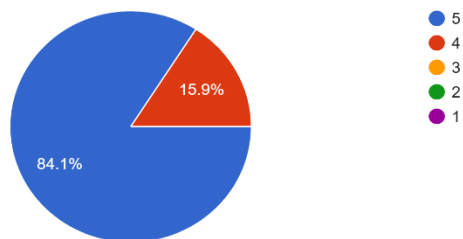
2. How useful do you find the techniques shared for transforming experiments into meaningful experiences?

44 responses



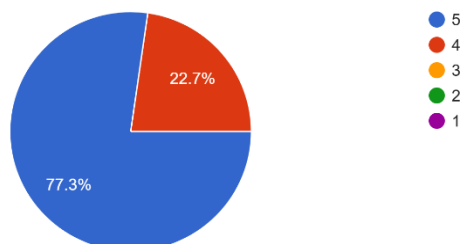
3. Was the length and pace of the workshop appropriate?

44 responses



4. How well did the workshop objectives match your expectations?

44 responses





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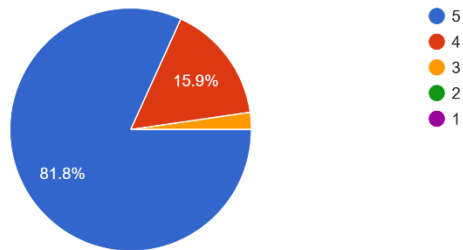
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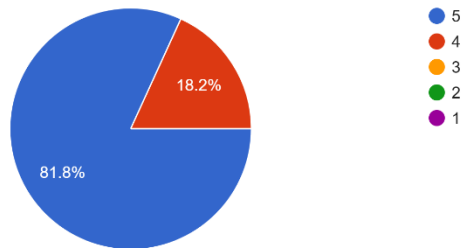
5. How would rate the balance between theory and practice?

44 responses



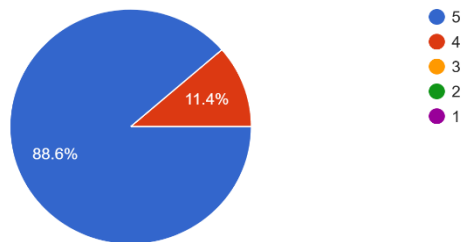
6. How would you rate the instructor's engagement and interaction with students?

44 responses



7. Was the instructor approachable and helpful in addressing questions and concerns?

44 responses



Event Coordinator

HOD- ME

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Principal