

**INDUSTRIAL VISIT  
"INDIAN INSTITUTE OF SCIENCE  
(IISc) OPEN DAY"  
(01 MARCH 2025)**

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Department of Mechanical Engineering, MVJ College of Engineering, organized an industrial visit to "Indian Institute of Science (IISc)" Open Day on March 1<sup>st</sup> 2025, for 4<sup>th</sup> and 6<sup>th</sup> Semester Students of Mechanical Engineering Department. A total of 40 students from the 4<sup>th</sup> and 6<sup>th</sup> semester of the ME Department participated in the visit, accompanied by faculty members Prof. Shivakumar H D, Prof. Kiran K K, and Prof. Vinoth Kumar G.

The IISc Open Day in Bangalore is a prestigious annual event that showcases cutting-edge research and technological advancements across various scientific disciplines. Organized by the Indian Institute of Science (IISc), this event offers a unique opportunity for students, researchers, and the general public to explore pioneering innovations in Mechanical Engineering and allied fields.

Visitors can engage with interactive exhibits, live demonstrations, and insightful presentations, highlighting IISc's groundbreaking contributions in Advanced Manufacturing, Robotics, Computational Fluid Dynamics (CFD), Thermal Sciences, Materials Engineering, and Aerospace Technologies. The event

provides a platform to explore the latest developments in automation, renewable energy systems, and experimental mechanics, offering valuable insights into ongoing projects and future research directions.

By connecting academia with industry and society, the IISc Open Day fosters scientific curiosity, innovation, and technological awareness. It serves as an inspiring platform for young minds, professionals, and enthusiasts to appreciate the engineering advancements shaping the future of mechanical and interdisciplinary sciences.

### **Objectives of the Visit**

- To explore the diverse research and technological innovations showcased at the IISc Open Day, with a special focus on Mechanical Engineering and allied disciplines.
- To gain insights into the real-world applications of advanced engineering concepts, including robotics, computational mechanics, aerospace engineering, material sciences, thermal sciences, and renewable energy technologies.
- To utilize the knowledge, resources, and research exposure at IISc for future academic, industrial, and research pursuits.

### **Visit Experience**

Upon arriving at the Indian Institute of Science (IISc), Bangalore, students and faculty members entered the campus and independently explored the Open Day exhibits and research

demonstrations. The event provided a welcoming and open environment, allowing visitors to seamlessly access various departments, research labs, and innovation hubs without formal entry restrictions.

The Open Day featured multiple interactive exhibits, live experiments, and engaging discussions, offering firsthand exposure to cutting-edge advancements in Mechanical Engineering, Aerospace Technology, Renewable Energy, Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), and Robotics. As we navigated through different research departments, we encountered AI-driven robotic systems, autonomous vehicles, smart manufacturing technologies, space research innovations, and advanced materials engineering projects.

The students studied research posters, observed live demonstrations, and discussed among themselves to better understand the innovative projects on display. The hands-on experiments and real-world engineering applications significantly enriched our understanding of scientific research and its technological impact.

## **Conclusion**

The visit concluded at 2:00 PM, and we returned to our college by 4:30 PM, leaving with a deep appreciation for the cutting-edge advancements in science and technology. The experience was

highly engaging and informative, sparking enthusiasm for innovation, engineering research, and interdisciplinary exploration.

### **Outcome of the Event**

The visit to IISc Open Day, Bangalore, was an enriching and insightful experience, providing students with a firsthand look at cutting-edge research and technological advancements. Participants explored a wide array of projects, prototypes, and experimental setups, gaining valuable insights into emerging engineering innovations, particularly in Mechanical Engineering, Robotics, Computational Fluid Dynamics (CFD), Aerospace Engineering, Advanced Materials, and Renewable Energy Technologies.

The event fostered a deeper understanding of interdisciplinary research and its real-world applications in industrial and scientific domains. The engaging exhibits and hands-on demonstrations enhanced technical curiosity, problem-solving skills, and research-oriented thinking. Students found the experience highly inspiring and educational, motivating them to pursue further opportunities in engineering research, technological innovation, and industrial advancements.



**Photograph 1: Students and Faculty Members at the entrance of the college before leaving for IISc Open Day.**



**Photograph 2: Students in front of Interdisciplinary Centre for Energy Research**





**Photograph 3: Students visualizing the fracture mechanics equipment at the IISc Open Day in the department of Mechanical Engineering.**