



## AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgavi)

Date: 26-12-2023

### Report on NITK Solve Virtual Lab Visit and Workshop


Name of the Program:	NITK Solve Virtual Lab Visit and Workshop	Program Dates & Timings:	21-12-2023 10:00AM-1:00PM
Name & Details of the Resource Person:	Shreshta, Senior Research Fellow Vismaya, Senior Research Fellow Neil, Junior Research Fellow		
Organized by (Clubs/ Dept.)	Virtual Lab Committee		
Number of Participants	Students	59	Faculty 2
Program Outcome (PO) Mapping	PO1, PO4, PO5, PO11, PO12		
Coordinators	Mrs.Arptha Kumari G., Mrs. Jayashree Sivapuram		

#### About the Program:

Virtual Labs project is an initiative of Ministry of Human Resource Development (MHRD), Government of India under the aegis of National Mission on Education through Information and Communication Technology (NMEICT).

Virtual Labs enable the students to learn at their own pace and enthuse them to conduct experiments. Virtual Labs also provide a complete learning management system where the students can avail various tools for learning, including additional web resources, video lectures, animated demonstration, and self-evaluation.

Virtual training labs are cloud-based training environments that emphasize an online, hands-on learning experience over a passive classroom-based one. Virtual labs allow students to participate in lab-based learning exercises without the costs and limitations of a physical lab.

  
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There are three kinds of virtual labs:

- Remote Triggered Labs.
- Measurement Based Labs.
- Simulation/ Modeling Based Labs.

There are several advantages of Virtual Reality Labs:

- 1) Reduced economic and time cost
- 2) Green/eco-friendly alternative
- 3) Flexible learning environment
- 4) Safety
- 5) Increasing inclusivity
- 6) Providing a clearer perspective on complicated topics
- 7) Boosting curiosity and self-esteem
- 8) Instant feedback opportunity

A virtual laboratory is a computer-based activity where students interact with an experimental apparatus or other activity via a computer interface. A virtual laboratory is a computing system that allows to share the physical resources available in a laboratory with remote users connected on the internet.

**Objectives:** The program Virtual Lab awareness workshop enable students to

- To create awareness about Virtual lab
- To obtain practical hands on experience on different concepts
- To enthuse students to learn basic and advanced concepts through remote experimentation

**Outcomes:** On successful completion of program student should able to:

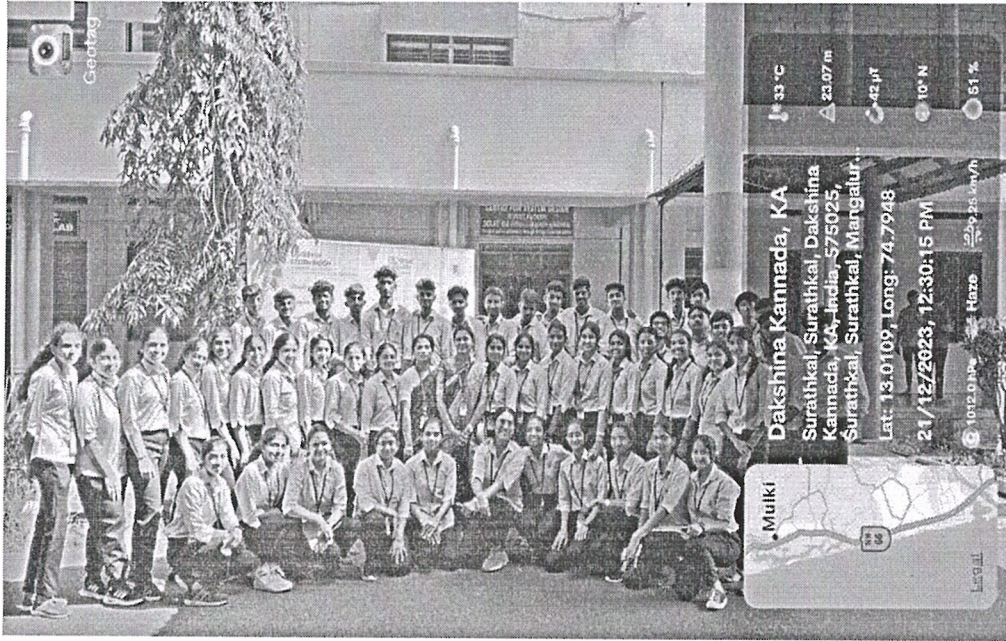
1. Tell about the virtual lab facility for remote access to lab resources
2. Illustrate practical hands on demonstration of different concepts
3. Apply basic and advanced concepts through remote experimentation

**Articulation Matrix:**

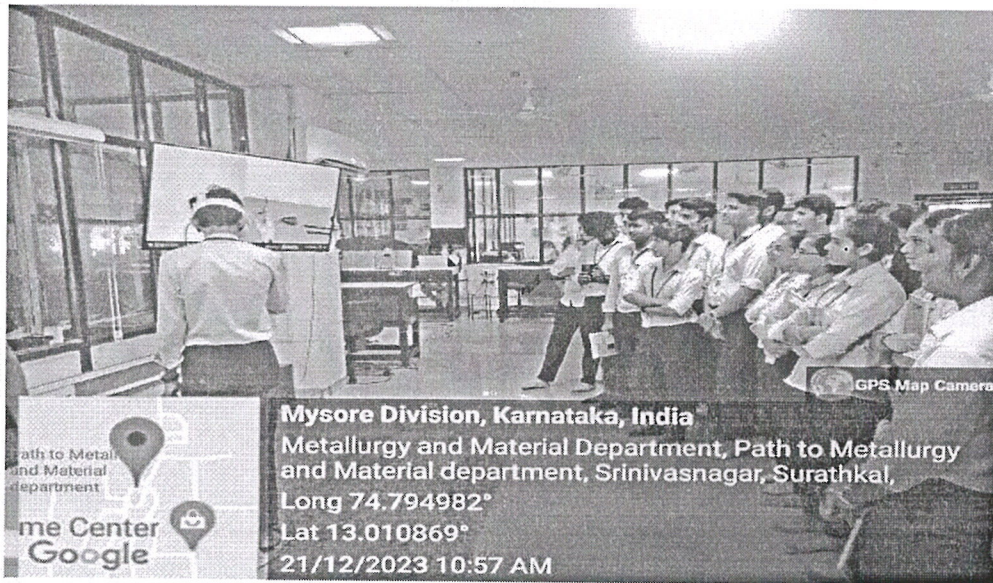
Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1	2	2	2	2	2							
2	2	2	2	2	2							
3	2	2	2	2	2							
Average	2	2	2	2	2							

  
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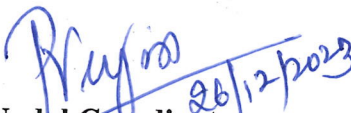
Photos:



Students learning Virtual reality during the NITK Solve Virtual Lab Visit



  
Staff Coordinators

  
Nodal Coordinator  
Virtual Lab

  
Principal  
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