

Date: 21-12-2023

Report on NITK Solve Virtual Lab Visit and Workshop

Name of the Program:	Visit to NITK Solve Virtual Lab	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	51	Faculty 2
Program Outcome (PO) Mapping	PO1, PO2, PO3, PO4, PO5		
Coordinators	Mrs Arpitha Kumari G, Mrs Jayashree Sivapuram		

About the Program:

A visit to Center for System Design: SOLVE Virtual Labs, National Institute of Technology-Surathkal, Karnataka and Introductory Workshop Virtual labs and System design demonstration is organized for first semester Information science & Engineering students (E section) of A. J. Institute of Engineering and Technology. Resource person has given a hands-on demonstration of virtual lab and briefed about workshop and its benefits.

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 enthruse them to conduct experiments. Virtual Labs also provide a complete learning management system where the students can avail various tools for learning.

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
3	2			2	2							2
Average	1			2	1							2

Photos:



Staff Coordinators

Nodal Coordinator
Virtual Lab

Principal