Workshop Report on Virtual Labs in association with IIT-Delhi

The Virtual Labs team, conducted free workshops and hands-on sessions on Virtual Labs for students and faculty members at its Nodal Centre MITS, Gwalior,

Virtual Labs is a project initiated by the Ministry of Education, Government of India, under the National Mission on Education through Information and Communication Technology.

These Virtual Labs cater to students at the undergraduate level, postgraduate level as well as to research scholars. Virtual Labs enable the students to learn at their own pace and enthuse them to conduct experiments.

The details as follows:

Date	02nd February 2024 (Friday)
Time	02.00PM to 03.30PM
Beneficiaries	Faculty Members and Students (UG)
Faculty Coordinators	Dr. Praveen Bansal (Institute Nodal Coordinator Virtual Labs)
	Dr. Saurabh Rajput

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
A GOVT. AIDED UGC AUTONOMOUS INSTITUTE, AFFILIATED TO R.G.P.V. BHOPAL (M.P.), INDIA
NAAC ACCREDITED WITH A++ GRADE

Virtual Labs — An MoE Govt of India Initiative

A workshop On Virtual Labs
Date: 02.Feb.2024
Online Mode

IIT Delhi — Indian Institute of Technology Delhi

Conducted by IIT-Delhi
An initiative of Ministry of Education (MoE) under National Mission on Education through ICT
Organized by :Centre for IoT, MITS, Gwalior

Experts		Date	02nd February 2024 (Friday)
Mr.Chirag Dey Senior Field Engineer, Virtual Labs, IIT Delhi	**Mr.Shani Kumar** Field Engineer, Virtual Labs, IIT Delhi	Time	02.00PM to 03.30PM
Mr.Jassi Prasad Field Engineer, Virtual Labs, IIT Delhi	**Mr.Gautam Sharma** Field Engineer, Virtual Labs, IIT Delhi	Beneficiaries	Faculty Members and Students (UG)

For More Details email at ciot@mitsgwalior.in

02/Feb/2024

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Virtual Labs

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WORKSHOP REPORT - 2024

NCID | Nodal Centre: Madhav Institute of Technology & Science, Gwalior

Workshop Date: 02 / February / 2024

Time	Discipline	Labs / Experiments Demonstrated	No. of Students	No. of Faculty Members
02:00 P.M. - 03:30 P.M.	CSE / IT	• Problem Solving Lab • Data Structures Lab • Python Programming Lab	128	32
	ECE / EE	• Basic Electronics Lab • Electrical Machines Lab		
	ME / CE	• FAB Lab • Vibration & Acoustics Lab • Concrete Structures Lab		
	Applied Sciences	• Inorganic Chemistry Virtual Lab		
		TOTAL	**128**	**32**

02/Feb/2024

Nodal Coordinator

6-2-24

Head of Institute / Principal

Signature & Stamp

DIRECTOR

Madhav Institute of Technology & Science

GWALIOR (M.P.)-474005

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* NOTE: The following documents are to be submitted along with the workshop report

1. Attendance Sheet

2. Two photographs, one of the sessions and one of the workshop notifications (poster/banner/flyer etc.)

3. Send the duly signed SCANNED COPY of the report to the Virtual Labs team.

4. Keep the HARD COPY with you in a Virtual Labs file for the record.

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Attendance Sheet : Faculty

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Indian Institute of Technology Delhi

Virtual Labs

Virtual Labs Workshop Faculty Attendance Form

Institute Name: Madhav Institute of Technology & Science, Gwalior

Date: 02nd feb 2024

Sl No.	Name	Branch	Email ID
1	Dr. Gaurav Khare	CIoT	gkhare@mitsgwalior.in
2	Dr. Murli Manohar	CIoT	murlimanohar@mitsgwalior.in
3	Dr. Aditya Dubey	CIoT	dubeyaditya65@mitsgwalior.in
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5	Dr. Kaushal Pratap Sengar	CIoT	kaushalsengar@mitsgwalior.in
6	Smt. SHASHI GOEL	CIoT	shashigoyal.mits@mitsgwalior.in
7	Dr. NOOKALA VENU	CIoT	venunookala@gmail.com
8	Dr. Priyanka Garg	CIoT	priyankagarg@mitsgwalior.in
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10	Deepanshu Agrawal	CED	devagrawal512@mitsgwalior.in
11	Vishal Chaudhary	EE	vishal.chaudhary30@mitsgwalior.in
12	Dr. Ankit Tiwari	EE	ankittiwari@mitsgwalior.in
13	Prof. Anuj Lodhi	EE	anuj.lodhi123@mitsgwalior.in
14	Prof. Richa Sharma	EE	richandsharma@mitsgwalior.in
15	Prof. Shivangi Sharma	Chemical	shivangi@mitsgwalior.in
16	Prof. Smita Parte	CSE	smitac@mitsgwalior.in
17	Prof. Khushboo Agarwal	CSE	ka.agarwals@mitsgwalior.in
18	Dr. Gagandeep Kaur	CSE	gagandeep@mitsgwalior.in
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28	Bulbul Agrawal	IT	bulbul@mitsgwalior.in
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30	Pooja Sahao	EC	sahu.pooja2009@mitsgwalior.in
31	Rachit Jai	EC	rachit2709@mitsgwalior.in
32	Dr. Atul Kumar Ray	MAC	atulray@mitsgwalior.in

Field Engineer

Signature of Head of Institution

Attendance Sheet: Students

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Indian Institute of Technology Delhi

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Virtual Labs Workshop Student Attendance Form

Institute Name: Madhav Institute of Technology and Science, Gwalior

Date: 02 Feb 2024

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2	Vatsalya Shivhare	EE-Io	22eo1oVa63@mitsgwl.ac.in
3	Avneesh Singh	EE-IoT	22eo1oav47@mitsgwl.ac.in
4	Abhishek Narwariya	EE-IoT	22eo1oab24@mitsgwl.ac.in
5	Chinmay Upadhyaya	EE-IoT	23co1och15@mitsgwloar.in
6	Priyam Verla Bandriya	EE-Iot	23co1oPr49@mitsgwl.ac.in
7	Vebhaav Lodhi	EE-Iot	23co1oVe73@mitsgwl.ac.in
8	Yug Shrivastav	EE-IoT	23eo1oYu78@mitsgwl.ac.in
9	Sameeksha Dhakad	EE-IoT	23eo1oSa60@mitsgwl.ac.in
10	Sneha Narwaria	EE-IoT	23eo1oSn65@mitsgwl.ac.in
11	Deepak Prajapati	EE-IoT	22eo1ode46@mitsgwl.ac.in
12	Riya Shrivastava	EE-IoT	22eo1ori67@mitsgwl.ac.in
13	Divyansh Jha	EE-IoT	22eo1odi615@mitsgwl.ac.in
14	Kaushik Morey	EE-IoT	21eo14ka@mitsgwl.ac.in
15	Shruti Thakur	EE-IoT	22eo1osh49@mitsgwl.ac.in
16	Devshree Sharma	EEIoT	23eo1ode17@mitsgwl.ac.in
17	Nishika Agrawal	EEIoT	23eo1oni37@mitsgwl.ac.in
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19	Ankit Prajapati	C-AI	23io3dan24@mitsgwl.ac.in
20	Priyanshu kumar	C-AI	kumarpriyanshuk29@gmail.com
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Field Engineer

Signature of Head of Institution

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Indian Institute of Technology Delhi

Virtual Labs

Virtual Labs Workshop Student Attendance Form

Institute Name: Madhav Institute of Technology & Science, Gwalior

Date: 02nd feb 2024

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Field Engineer

Signature of Head of Institution

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Indian Institute of Technology Delhi

Virtual Labs
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Virtual Labs Workshop Student Attendance Form

Institute Name: Madhav Institute of Technology & Science, Gwalior

Date: 02nd Feb 2024

Sl No.	Name	Branch	Email ID
1	Poorni Shrivastava	CIOT	Poornis885@gmail.com
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23	Praful Harode	IOT	Prafulharode5@gmail.com
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31	Disha Mittal	C-E	dishamittal66700@gmail.com
32	Devbrat Sharma	Civil-E	2021ce145de@mitsgwl.ac.in

Field Engineer
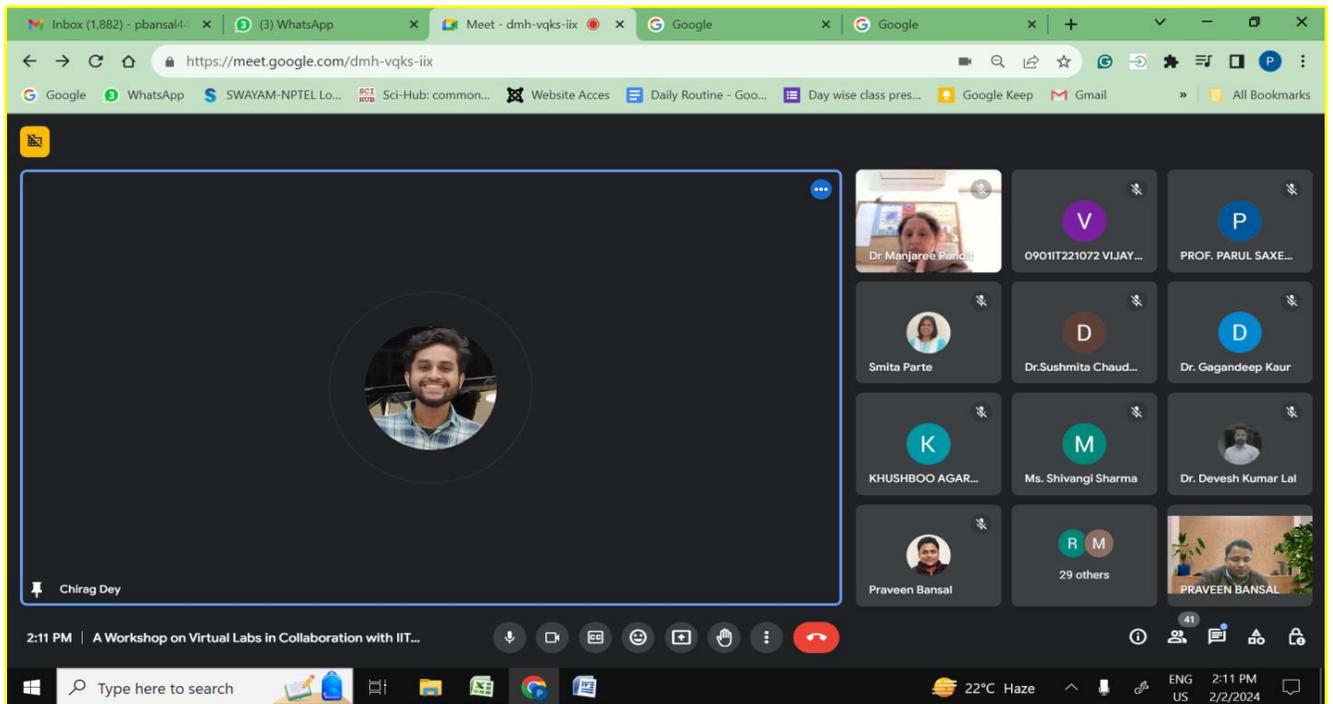
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Indian Institute of Technology Delhi

Virtual Labs — An MoE Govt of India Initiative

Virtual Labs Workshop Student Attendance Form

Institute Name: Madhav Institute of Technology and Science Gwalior

Date: 02, Feb 2024

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5	Yuvraj Singh Chandel	EE(IOT)	yuvrajchandel1510@gmail.com
6	Harsh Gupta	EE(IOT)	harshgupta9104@gmail.com
7	YASH GHUNAWAT	EE(IOT)	Yashrawat137@gmail.com
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17	Abhishek Narwariya	EE-IOT	22eo10ab24@mitsgwl.ac.in
18	Anushar Rajawat	EE-IOT	22eo10an41@mitsgwl.ac.in
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21	Rishav Singh Sikarwar	EE-IoT	23eo10ri56@mits.gwl.ac.in
22	Vinayak Mishra	EEIoT	23eo10vi75@mitsogwl.ac.in
23	MANJEET GURJAR	EEIoT	22eo10ma33@mits.gwl.ac.in
24	Renu Batham	EEIoT	22eo10re72@mitsgwl.ac.in
25	Deeksha Rajouriya	EE-IoT	22eo10de887@mits.gwl.ac.in
26	Sakshi Dubey	EE-IoT	22eo10sa58@mits.gwl.ac.in
27	Abhishek Rajput	EE-IoT	22eo10ab625@mitsgwl.ac.in
28	Nitin Sharma	EE-IoT	23eo10ni38@mitsgwl.ac.in
29	DILHASH KHAN	EE-IoT	23eo10di18@mitsgwl.ac.in
30	Rishabh Singh Rajawat	EE-IoT	23eo10ri55@mitsgwl.ac.in
31	Rishi Sharma	EE-IoT	23eo10ri57@mitsgwl.ac.in
32	Shalini Tomar	EE-IoT	22eo10sh9@mitsgwl.ac.in

Field Engineer

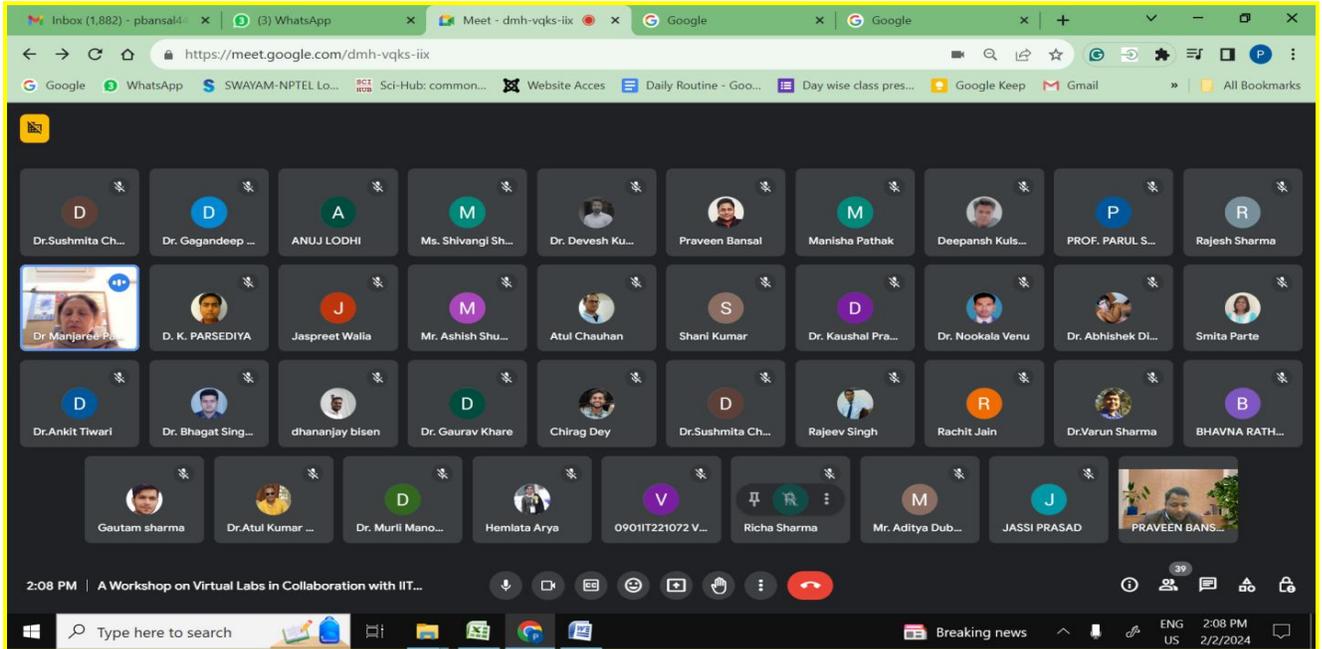Signature of Head of Institution

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Glimpses of the Workshop: Offline Participants

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Gwalior, Madhya Pradesh, India
66J4+7FX Golden Jubilee Garden MITS, Mela Ground, Thatipur, Gwalior, Madhya Pradesh 474011, India
Lat 26.230739°
Long 78.206378°
02/02/24 02:53 PM GMT +05:30

Gwalior, Madhya Pradesh, India
66J4+7FX Golden Jubilee Garden MITS, Mela Ground, Thatipur, Gwalior, Madhya Pradesh 474011, India
Lat 26.230735°
Long 78.206378°
02/02/24 02:54 PM GMT +05:30

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Glimpses of the Workshop: Online

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Feedback of the Workshop

Engaging hands-on activities made the virtual lab workshop highly interactive and enjoyable

65 responses

Rating	Count
1	1 (1.5%)
2	2 (3.1%)
3	3 (4.6%)
4	24 (36.9%)
5	35 (53.8%)
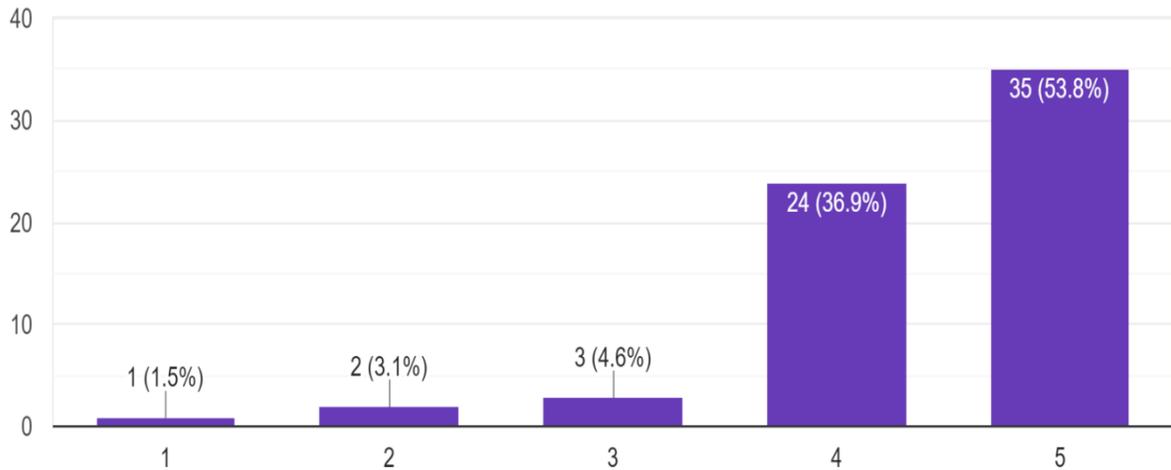
The virtual lab platform was user-friendly, allowing for seamless navigation and experimentation

65 responses
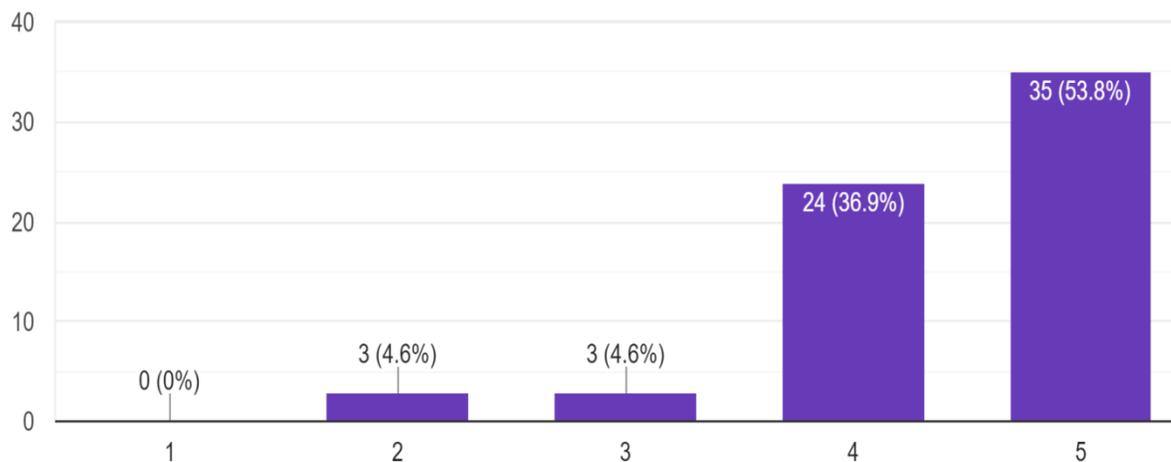
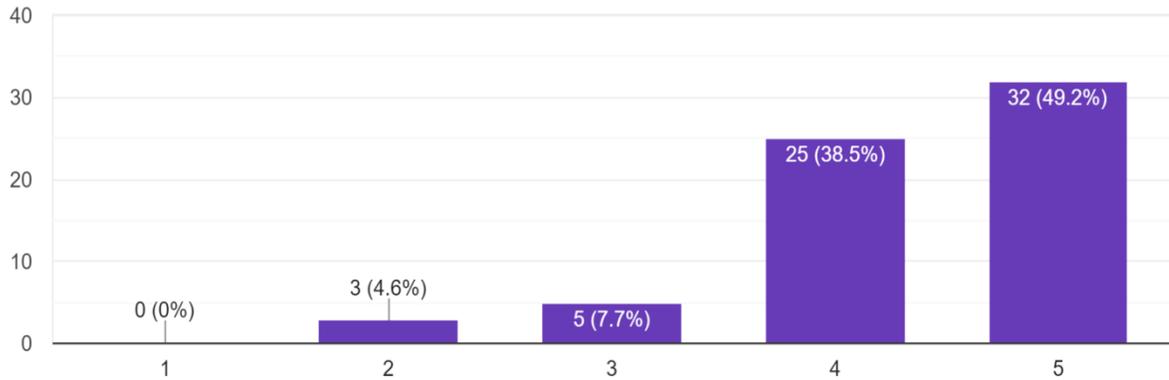| Rating	Count
1	0 (0%)
2	3 (4.6%)
3	3 (4.6%)
4	24 (36.9%)
5	35 (53.8%)

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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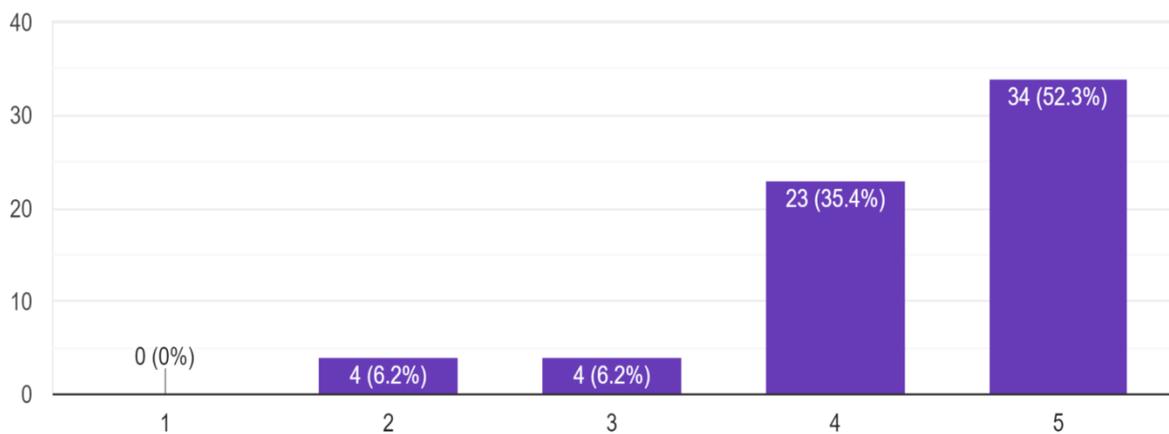
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Clear explanations of theoretical concepts facilitated understanding and application during lab exercises during workshop

65 responses

Effective tools used in virtual labs have enriched the learning experience
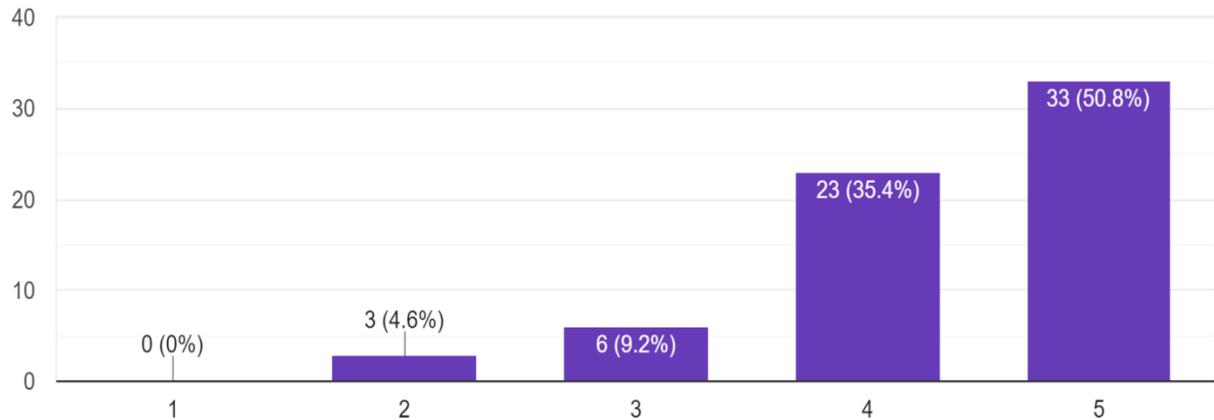
65 responses

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Challenging experiments encouraged critical thinking and problem-solving skills development

65 responses

Feedback : Suggestions/Comments

1.	Thank you Centre for Internet of Things team for organizing such a fantastic virtual lab session. The session was highly interactive and provided valuable insights. I thoroughly enjoyed the learning experience and found it to be quite beneficial. Moving forward, I would like to propose the idea of arranging an offline session for the virtual lab, making it mandatory for all students to participate. This approach could offer a more hands-on learning opportunity and further enhance the overall educational experience. Once again, thank you for the insightful session, and I eagerly anticipate any future events organized by your team.
2.	Please do more sessions like these.
3.	Excellent
4.	Please conduct more such sessions
5.	Hands on were extremely good.however a separate session for cse will be more beneficial
6.	Virtual mode is good to perform the lab work
7.	Nicely organized session
8.	Kindly provide the details about how students will write code in the course (for example Data Structures) of Computer Science & Engineering over the IIT Virtual lab platform.
9.	Remote triggered lab workshop should be organised in future
10.	It helps us to improve are productivity
11.	Everything is good