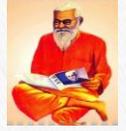




**Swami Keshvanand Institute of Technology,
Management & Gramothan**



**A Report of the
One Week Student Workshop on Internet of Things (IoT)
(November 7-12, 2022)**

Jointly Organized By

**Department of Electronics & Communication Engineering
and**

**Department of Computer Science & Engineering
(Under the Aegis of Center of Excellence-IoT, SKIT, Jaipur)**

In Association With:

Enovate Skills, NITTTR Campus, Chandigarh

CSIR-IMMT: InTEC, Bhubaneswar



Event Coordinators

**Dr. Praveen Kumar Jain, Mr. Ankit Agarwal, Ms. Pooja Choudhary, Mr. Pallav Rawal
Ms. Anjana Sangwan, Ms. Priyanak Sharma, Ms. Rashmi Dadheech** 1

Faculty-Coordiators



Dr. Praveen Kumar Jain
Professor, ECE-SKIT
Email: pkjain@skit.ac.in



Ms. Anjana Sangwan
Asso. Professor, CSE-SKIT
Email: anjana@skit.ac.in



Mr. Ankit Agarwal
Asso. Professor, ECE-SKIT
Email : ankit.agarwal@skit.ac.in



Mr. Pallav Rawal
Associate Professor, ECE-SKIT
Email: pallav@skit.ac.in



Ms. Pooja Choudhary
Assistant Professor, ECE-SKIT
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Ms. Rashmi Dadhich
Assistant Professor, CSE-SKIT
Email: rashmi.dadhich@skit.ac.in

Student-Coordiators

Ayushi Khandal (B.Tech III Sem - CSE)

Arushi Bansal (B.Tech III Sem - CSE)

Aryan Gupta (B.Tech III Sem – CSE)

Ayush Garg (B.Tech III Sem – CSE)

Gaurav Sharma (B.Tech V Sem-CE)

Muskan Goyal (B.Tech V Sem - CSE)

Nitya Singh (B.Tech V Sem - CSE)

Navya Gupta (B.Tech V Sem - CSE)

Nidhi Yadav (B.Tech V Sem - CSE)

Piyush Jain (B.Tech V Sem - CSE)

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About Workshop

Internet of Things (IoT) is the inter-networking of physical devices, vehicles, buildings, and other items, embedded with electronics, software, sensors, actuators, and network connectivity that enable these objects to collect and exchange data. By learning the inter-connection and data exchange, Students can create their own IoT Networks with connected devices and can access it from anywhere in the world.

The Internet of Things is expected to emerge as a huge business opportunity for the Indian IT industry in the years ahead. The expansion of IoT in the country is expected to be spurred by several developments:

- ❖ The proliferation of sensors, which will work with an ever growing number of intelligent systems and applications.
- ❖ The Indian Government's plan of developing 100 smart cities in the country, for which Rs. 7,060 crore has been allocated in the current budget.
- ❖ The launch of the Digital India Program of the Government, which aims at 'transforming India into a digitally empowered society and knowledge economy.
- ❖ The Indian IT industry has an opportunity to provide software applications, services and analytics related to IoT over the next few years.

This workshop aims to provide the knowledge and experience on the fast growing field of IoT to the participants. Practical understanding of how Arduino Uno & Raspberry Pi work and thorough clarity on the Internet of Things will be provided to participants.

Workshop Outcomes

After completion of this workshop, participants will be able to:

WO1: Understand building blocks of Internet of Things and their applications.

WO2: Use Arduino and Raspberry Pi module in the implementation of the basic projects.

WO3: Realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks.

The workshop outcomes is mapped with the program outcomes indicators of UG engineering program. The matrix is shown as follows:

WO	Bloom's Level	PO Indicators	PSO Indicators
WO1	L2	1.1.1, 1.2.1, 1.3.1, 1.4.1, 12.1.1,12.1.2, 12.2.1, 12.2.2, 12.3.1, 12.3.2	1.1.1, 1.1.2, 1.1.4, 1.2.1, 1.2.2
WO2	L3	1.1.1, 1.2.1, 1.3.1, 1.4.1, 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.2.4, 2.3.1, 2.4.1, 2.4.2, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4.1, 5.1.1, 5.1.2, 5.2.1,5.2.2, 2.4.4, 12.1.1,12.1.2, 12.2.1, 12.2.2, 12.3.1, 12.3.2	1.1.1, 1.1.2, 1.1.4, 1.2.1, 1.2.2, 2.1.1, 2.1.2, 2.2.1
WO3	L4	1.1.1, 1.2.1, 1.3.1, 1.4.1, 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.2.4, 2.3.1, 2.4.1, 2.4.2, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4.1, 5.1.1, 5.1.2, 5.2.1,5.2.2, 2.4.4, 12.1.1,12.1.2, 12.2.1, 12.2.2, 12.3.1, 12.3.2	1.1.1, 1.1.2, 1.1.4, 1.2.1, 1.2.2, 2.1.1, 2.1.2, 2.2.1

Approval Letter

ECE Deptt.
Proposed Events to be Organize in the Session 2022-2023

Sr. No.	Type of Event	Title	Mode	Dates	Name of Coordinators	Any Collaboration	Budget Required
1	International Conference	Recent Advances in Electronics and Communication Technologies (RAECT-2022)	Hybrid	10-11 Feb 2023	Dr. Mukesh Arora	-	1,00,000/-
2	Lecture Series	Recent trends in Electronics and Communication 2.0	Hybrid	10-14 Oct, 2022	Ms. Kiran Rathi Ms. Suman Sharma Dr. Monika Mathur Dr. Vikas Pathak	-	25000/-
X	Lecture Series	Emerging Trends in Electronics Engineering (ETEE-2023)	Hybrid	March 6-10, 2023	Mr. Neeraj Jain Mr. Rahul Pandey Mr. Abhinandan Jain Mr. Sunil Lakawat Mr. Lalit Lata	-	25000/- <i>Mukesh</i>
4	Workshop	Internet of Things	Hybrid	7-12 Nov. 2022	Dr. Praveen K Jain Ms. Anjana Sangwan Mr. Ankit Agarwal Ms. Pooja Choudhary Ms. Rashmi Dadhich, Ms. Priyanka Sharma Mr. Pallav Rawal	CS Department, SKIT	25000/-
5	Workshop	Signal Processing using Python and MATLAB	Hybrid	16-21 Jan, 2023	Dr. Monika Mathur, Ms. Kiran Rathi, Mr. Harshal Nigam, Dr. Shubhi Jain, Ms. Rajni Idawal Mr. J. P. Vijay	-	25,000/-
6	FDP	SCILAB	Online	5-17 Dec. 2022	Ms. Priyanka Sharma Ms. Rajni Idawal	Spoken Tutorial, IIT Bombay	Nil
7	FDP	Smart Electronics and Materials (FDP-SEM)	Hybrid	21-25 Nov. 2022	Dr. Rukhsar Zafar Dr. Swati Arora Ms. Manju Choudhary Ms. Pooja Choudhary	-	50,000/-
X	FDP	Mentoring skills, Counseling and guidance for faculties	Offline	19-23 Dec. 2022	Ms. Suman Sharma, Ms. Kiran Rathi, Ms. Namarata Saxena, Mr. Dinesh Verma	-	50,000/- <i>Mukesh</i>

→ Funds may be conducted in accordance to budget approved under head training & travel
approved conditionally *yes permitted and forwarded to Rev. Dir/ Director for financial approval.*
Mukesh
 28.9.22

Approved
Mukesh
 MOD-ECE
 19/10/2022

WO-PO/PSO Mapping Using Performance Indicators (PIs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
WO1	3	-	-	-	-	-	-	-	-	-	-	3	3	-
WO2	3	3	3	-	-	-	-	-	-	-	-	3	3	3
WO3	3	3	3	-	-	-	-	-	-	-	-	3	3	3
WO	3	3	3	-	-	-	-	-	-	-	-	3	3	3

WO-PO/PSO Mapping: Formulation and Justification

The WO-PO/PSO mapping is based on the correlation of workshop outcome (WO) with Program Outcome Indicators. These indicators are the breakup statements of broad Program Outcome statement.

The correlation is calculated as number of correlated indicators of a PO/PSO mapped with WO divided by total indicators of a PO/PSO. The calculated value represents the correlation level between a WO & PO/PSO.

Detailed formulation and mathematical representation can be seen below in equation :

Input: WO_i : The i^{th} workshop outcome

PO_j : The j^{th} Program Outcome

I_{jk} : The k^{th} indicator of the j^{th} Program Outcome

$\alpha(I_{jk}, WO_i)$: level of WO-PO/PSO mapping

$$= 1, \text{ if } 0 < \alpha < 0.33$$

$$= 2, \text{ if } 0.33 \geq \alpha < 0.66$$

$$= 3, \text{ if } 0.66 \geq \alpha < 1$$

λ : Degree of correlation

$$\alpha I_{jk}, WO_i = \text{count}(\lambda I_{jk}, WO_i) / \text{count } I_{k}, PO_j$$

Call for Registration



**Swami Keshvanand Institute of Technology,
Management and Gramothan, Jaipur**



**Department of Electronics and Communication Engineering
&
Department of Computer Science Engineering**

Jointly Present

**One Week Student Workshop (Hybrid Mode) on
Internet of Things (IoT)**

Under the Aegis of Centre of Excellence-IoT, SKIT, Jaipur

In Association With:

**Ennovate Skills, NITTTR Campus, Chandigarh
InTec-IMMT-CSIR, Bhubaneswar**



7th - 12th November 2022



01:30 pm - 3:30 pm



workshop_student@skit.ac.in

Register Here :



shorturl.at/goSW9

Event Coordinators:

Dr. Praveen Kr. Jain (ECE)
Mr. Ankit Agarwal (ECE)
Ms. Pooja Choudhary (ECE)

Ms. Anjana Sangwan (CSE)
Ms. Priyanka Sharma (CSE)
Ms. Rashmi Dadheech (CSE)



<https://www.skit.ac.in/>



SKIT, Jagatpura, Jaipur

Call for Registration

Dear All,

Greetings from SKIT, M & G, Jaipur !!

We are pleased to inform you that the Departments of Electronics and Communication Engineering and Computer Science & Engineering jointly organizing One Week Student Workshop (Hybrid Mode) on “Internet of Things “ under the aegis of Centre of Excellence-IoT, SKIT M&G, Jaipur scheduled form 07th- 12th , November 2022.

There are no registration fees.

Registration Link: shorturl.at/goSW9

Join the WhatsApp group for further updates:

<https://chat.whatsapp.com/LoRrtjaw7KR6nrmIJ8wvOUA>

Certificate in hard copy will be provided to those who will attend the session and submit feedback on the lecture. For further queries contact us at: workshop_ece@skit.ac.in

Regards

Coordinators: Workshop –IoT

Consent from Speakers



Dr. Praveen K Jain <pkjain@skit.ac.in>

Request of your association for conducting Workshop on IoT

Novate Skill E-Learning <novateskill@gmail.com>
To: "Dr. Praveen K Jain" <pkjain@skit.ac.in>

Mon, Oct 10, 2022 at 3:24 PM

Ok I confirm it from my side.

On Fri, Oct 7, 2022, 7:55 PM Dr. Praveen K Jain <pkjain@skit.ac.in> wrote:
Dear Sir/Mam,

Greetings from Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan

It gives us immense pleasure to share with you that the Department of Electronics & Communication Engineering & Department of Computer Science and Engineering under the Aegis of Centre of Excellence-IOT, SKIT, Jaipur are organizing a One Week Student Workshop (Hybrid Mode) on "Internet-of-Things (IoT)", from 7th Nov - to 12th Nov 2022.

The organizing committee of the requests your association of your esteemed organization to conduct this workshop. Also, we would like to have the honour of hearing distinguished speakers from your team.

The target audience of the event will be engineering & science graduates. This workshop is a good opportunity and platform for all the students who want to understand the key concepts and recent advancements in the field of Internet-of-Things. The various sessions of the workshop will be taken by the eminent speakers from reputed Institutions and Industries across the globe.

In this regard, we look forward to receiving your enthusiastic and favourable response well in time.

Organizing committee
Department of ECE & CSE, SKIT, Jaipur

--

Dr. Praveen K Jain
M.Tech. (IT Roorkee), Ph.D. (MNIT, Jaipur)
NET-JRF, GATE
Professor & Deputy Head
Department of Electronics and Communication Engineering
(Accredited by NBA)
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
+91-9928652224, praveenjain.spsl@gmail.com

Save Water ! Save the Future Generations !!

11/04/22, 1:08 PM

Swami Keshvanand Institute of Technology Mail - Request of your association for conducting Workshop on IoT



Dr. Praveen K Jain <pkjain@skit.ac.in>

Request of your association for conducting Workshop on IoT

Prof. Anil Chaudhary <hodt@skit.ac.in>
To: "Dr. Praveen K Jain" <pkjain@skit.ac.in>

Mon, Nov 7, 2022 at 6:41 PM

Cc: "Dr. Pankaj Dadheech" <pankaj@skit.ac.in>, mehul kumar <mehul@skit.ac.in>

----- Forwarded message -----

From: Lalit Mohan Soni <lalmohansoni@infosys.com>

Date: Mon, Nov 7, 2022 at 4:28 PM

Subject: RE: Request of your association for conducting Workshop on IoT

To: Prof. Anil Chaudhary <hodt@skit.ac.in>, Kamaljeet Kaur01 <Kamaljeet_Kaur01@infosys.com>

Cc: Braj Bhardwaj <braj.bhardwaj@infosys.com>

Hello Prof. Anil, Kamaljeet,

Greetings !

Trust you had a great weekend.

With reference to subject and trailing email, I am planning to cover the below topics during - 1.5 hr of session:

- IoT Overview
- Components of IoT Ecosystem
 - Building Blocks
 - Things
 - Sensors
 - IoT Gateways
 - Communication
 - IoT Platform
- Classification of IoT in Industry Sectors
- Challenges
- Some relevant case studies

Hope its fine !

Also, please find below my profile for your ready reference :

11/04/22, 1:13 PM

Swami Keshvanand Institute of Technology Mail - Request of your association for conducting Workshop on IoT



Dr. Praveen K Jain <pkjain@skit.ac.in>

Request of your association for conducting Workshop on IoT

Tue, Oct 18, 2022 at 12:10 PM

Prof. Anil Chaudhary <hodt@skit.ac.in>
To: "Dr. Praveen K Jain" <pkjain@skit.ac.in>
Cc: mehul kumar <mehul@skit.ac.in>

----- Forwarded message -----

From: Mani Madhukar <manimad@in.ibm.com>

Date: Tue, Oct 18, 2022 at 12:00 PM

Subject: RE: Fwd: Request of your association for conducting Workshop on IoT

To: Prof. Anil Chaudhary <hodt@skit.ac.in>, Rathna V Saravanan <sarav@in.ibm.com>

Dear Sir,

Thanks for writing in and your interest in collaborating with IBM for conducting workshop on IoT.

Please find my colleague Rathna, copied who has agreed to help us with the workshop, request you to share the tentative schedule of the event.

PS: Dear Rathna,

Thank you for your support to the program, appreciate you taking time from your busy schedule for delivering the session.

Thanks and regards

Mani Madhukar, Ph.D.

Global University Programs, IBM India Pvt. Ltd.

Mobile: +91-9560055140

<https://www.linkedin.com/in/manimadhuakar>

Twitter: @manimadhuakar

11/04/22, 1:17 PM

Swami Keshvanand Institute of Technology Mail - Invitation for expert lecture and Chief Guest in Valedictory Ceremony of Work...



Dr. Praveen K Jain <pkjain@skit.ac.in>

Invitation for expert lecture and Chief Guest in Valedictory Ceremony of Workshop

Dr. Satyajit Rath <satya@imnt.res.in>
To: pkjain@skit.ac.in

Tue, Nov 8, 2022 at 12:23 AM

Dear Dr. Jain,

Thank you so much for the invitation.

We will be happy to interact with the students, please let me know the general profile of students participating in the workshop.

Regards,
Satyajit Rath

डॉ. सत्यजीत राय / Dr. Satyajit Rath
Principal Scientist & Head, Computer Networking & e-Management /
Member, Strategy Planning & Business Development

सीएसआईआर - खनिज एवं पदार्थ प्रौद्योगिकी संस्थान /
CSIR-Institute of Mineral & Material Technology,
(CSIR, DSIR, Govt. of India)

भुवनेश्वर / Bhubaneswar - 751 013

Phone : +91 - 674 - 2379464

Mob: +91 9438115022

About Speakers



Mr. Ajay Godara
Founder & CEO, Enovate Skills, Chandigarh

- Innovator, founder & CEO at Enovate Skill NITTTR, Chandigarh start-up. Techno_preneur, Mentor of Change at NITI AYOJ G.O.I.
- He has a vast experience of design, development & deployment of IoT platform from smart home to Smart Factory. He has delivered more than 100 talks and workshop on National Platform and taken many expert session on ICT based workshop at NITTTR, Chandigarh.
- He is a Mechanical engineer with thorough hands-on experience of developing and deploying IoT solutions using a variety of technologies.
- His articles has been published in many reputed magazines and EFY is one of them. Currently he is working on smart village project.

About Speakers



Mr. Lalit Mohan Soni **Principal & Lead (Mining), Infosys**

- ❖ Professional Mining Engineer with over 16 years of diverse experience in the Mining industry.
- ❖ Currently working as Principal Consultant with Infosys and leading the mining team.
- ❖ Associated with the IoT practice at engineering service unit and focus on operational, digital & technology transformation for multiple clients.
- ❖ Has rich experience in Mine Planning, resource and reserve estimation as per JORC/SAMERC codes, Resource and pit optimization, 3-D Modeling, Project Planning, Digital Transformation, process & operation management.
- ❖ Worked on various international assignments on various commodities across the globe.

About Speakers



Rathna V Saravanabhavan
Cloud Solution Architect, IBM

- ❖ Cloud Solution Architect with 19+ years of IT Experience in Cloud Computing Architecture, IoT, Enterprise Application Architecture and Integration Architecture, Solution Architecture, Content Management and Client-Server Technologies.
- ❖ Diverse expertise in defining architectures and providing technical design and end to end solutions for Network management Systems(NMS/EMS) of Storage and Telecommunication smart devices, Large Financial Applications (Banking/ Insurance) and Supply Chain projects.
- ❖ Involved in framework design. Expertise in IBM Cloud/Bluemix , Java, JEE, Web Technologies, Spring, Hibernate, JMS, Rest Web-services, Oracle, DB2, Agile with Discipline, AD 2.0 and Scrum.

About Speakers



Dr. Satyajit Rath,
Principal Scientist – Head-CNeM,
CSIR-IMMT, Bhubaneswar

- ❖ Dr. Satyajit Rath, started his career as a Software Professional with M/s Geo-Informatics, Bhubaneswar.
- ❖ In April 2008 Dr. Rath joined CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar. As a Sr. Scientist and Head of Computer Networking & e-Management Cell, he is leading software related project consultancy and IT applied research in the allied field of Decision Support Expert system; Decision Analysis & Prediction Modelling; Process Simulation and Modelling; Digital Image Analysis; Geomatics & Remote Sensing.
- ❖ As a faculty under AcSIR, he is actively involved in teaching computer allied subjects in PhD programs being conducted at IMMT. He has three patents and one copyright to his credit. In addition to research career currently he is the CPIO and Nodal officer, National Knowledge Network at IMMT. As a Rotarian he is also actively involved in several flagship social activities in and around the BBSR City.

Department of Electronics & Communication Engineering
and

Department of Computer Science & Engineering

STUDENT WORKSHOP

Internet of Things (IoT)

(Under the Aegis of Center of Excellence - IoT, SKIT, Jaipur)

In Association With:

Enovate Skills, Chandigarh

CSIR-IMMT: InTEC, Bhubaneswar

Eminent Speakers



MR. AJAY GODARA

CEO, Enovate Skills,
Chandigarh



DR. SATYAJIT RATH

Principal Scientist and Head-CNeM,
CSIR-IMMT, Bhubaneswar



MS. RATHNA V SARAVANABHAVAN

Technical Solution Architect, IBM



MR. LALIT MOHAN SONI

Principal Consultant, Infosys Jaipur



07th-12th November 2022

Event Coordinators:

Dr. Praveen Kr. Jain, Mr. Ankit Agarwal, Ms. Pooja Choudhary, Mr. Pallav Rawal
Ms. Anjana Sangwan, Ms. Priyanka Sharma, Ms. Rashmi Dadheech

For more information contact us: workshop_student@skit.ac.in

Schedule of Workshop

Date and Day	Time	Eminent Speaker
07.11.2022 (Monday)	9:30 am -11:30 am	Mr. Ajay Godara, Mentor of Change (NITI Ayog, G.O.I) and CEO -Enovate Skill, Chandigarh
08.11.2022 (Tuesday)	9:30 am – 11:00 am	Mr. Ajay Godara, Mentor of Change (NITI Ayog, G.O.I) and CEO -Enovate Skill, Chandigarh
	11:30 am – 1:00 pm	
	1:00 pm – 2:30 pm	
08.11.2022 (Tuesday)	9:30 am – 11:00 am	Mr. Ankit Agarwal, SKIT
	11:30 am – 1:00 pm	Mr. Yogendra Gupta, SKIT
	1:00 pm – 2:30 pm	Mr. S. Sarabjeet Singh, SKIT
10.11.2022 (Thursday)	11:00 am-12:30 pm	Mr. Lalit Mohan Soni Principal Consultant, Infosys, Jaipur
11.11.2022 (Friday)	9:30 am- 11:00 am (Online)	Ms. Ratna Saravanabhavan V & Mr. Raghu Ramaswamy Solution Architect, IBM
12.11.2022 (Saturday)	11:30 am- 1:00 pm (Online)	Dr. Satyajit Rath Principal Scientist and Head-CNeM CSIR-IMMT, Bhubneswar
12.11.2022 (Saturday)	1:15 pm- 1:45 pm (Online)	Dr. Satyajit Rath (Chief Guest)

Minute to Minute Program of the Inaugural Ceremony (7th November 2022)

Time (AM)	Activity
9:00-9:02	Lamp Lighting
9:02-9:05	Floral Welcome + Memento presentation
9:05-9:10	Welcome Addresses by Prof. S. L. Surana, Director (Academics)
9:10-9:20	About the Workshop by Prof. Anil Choudhary, Head-IT, SKIT
9:20-9:30	Address by Chief Guest (Mr. Ajay Godara)
9:30-9:35	Vote of Thanks- Prof. Mukesh Arora, Head-OFA & ECE, SKIT
9:35-9:40	Group Photo

Glimpses of the Inaugural Ceremony

07th November 2022, 9:00 AM at Gyan Mandir, SKIT



Lamp Lighting by Dignitaries



Dignitaries on Dias



Floral Welcome of Mr. Ajay Godara by Dr. S. L. Surana



Memento Presentation to Mr. Ajay Godara by Dr. Anil Choudhary



Welcome Address by Dr. S. L. Surana



Details of Workshop by Dr. Anil Choudhary



Group Photograph



Students Participation

Glimpses of the 1st Day Session

07th November 2022, 10:00 AM at Gyan Mandir, SKIT



Invited Speaker:

**Mr. Ajay Godara, Mentor of Change (NITI AYOOG, G.O.I)
CEO-Enovate Skill, Chandigarh**

Glimpses of the 2nd Day Session

08th November 2022, 9:00 AM at IAI Lab, SKIT

19



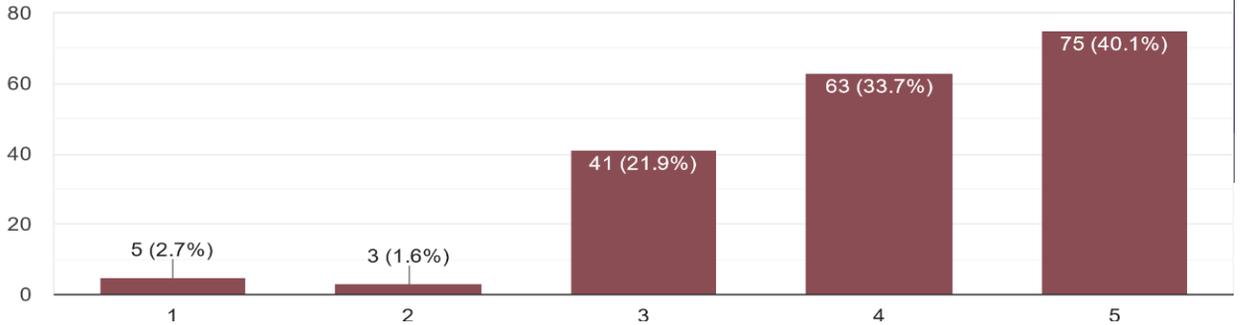
Invited Speaker:

**Mr. Ajay Godara, Mentor of Change (NITI AYOG, G.O.I)
CEO-Enovate Skill, Chandigarh**

Day-1 and Day-2 Feedback Analysis

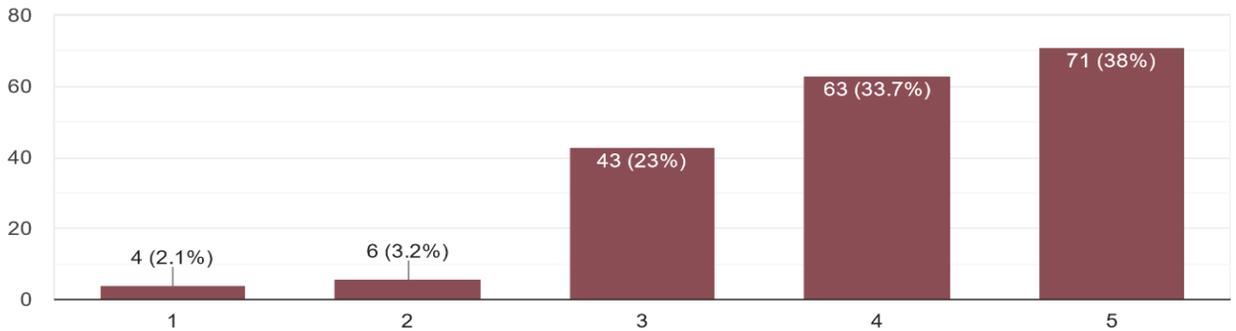
1. Your experience about the today's session

187 responses



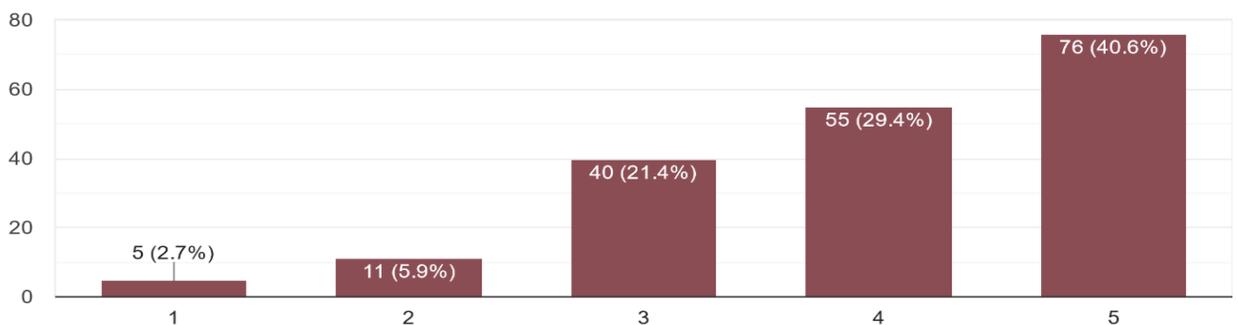
2. Knowledge Enhancement

187 responses



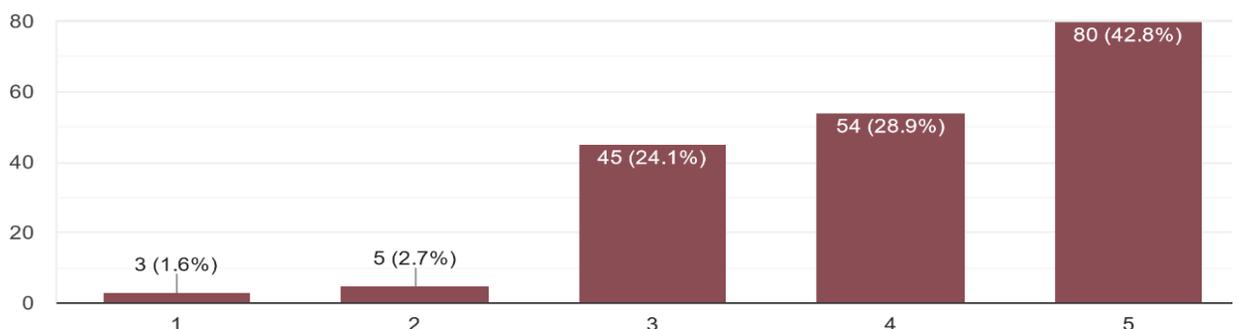
3. Relevancy of topics

187 responses



4. About speakers of Workshop

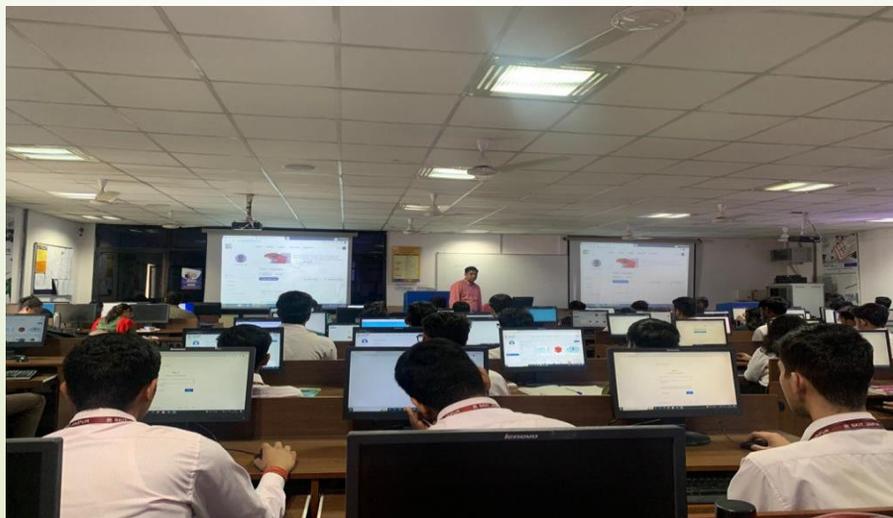
187 responses



Glimpses of the 3rd Day Session

09th November 2022, 9:00 AM at IAI Lab, SKIT

21



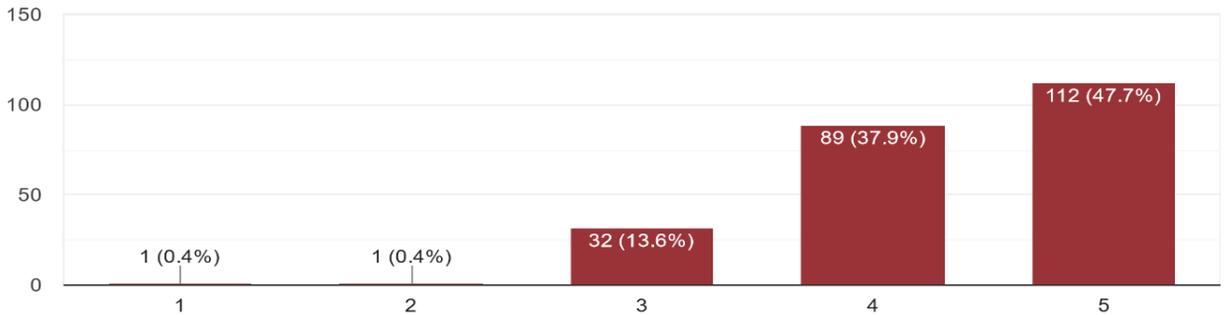
Invited Speaker:

**Mr. Ankit Agarwal, Mr. Yogendra Gupta, Mr. S. Sarabjeet Singh,
SKIT, Jaipur**

Day-3 Feedback Analysis

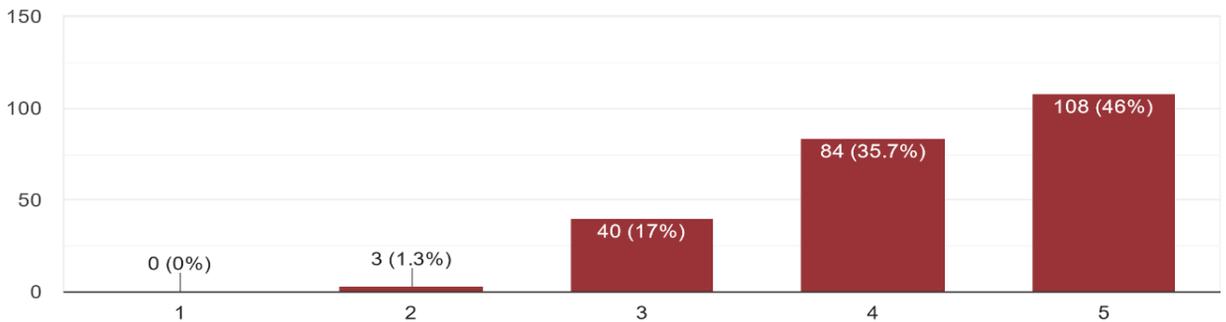
1. Your experience about the today's session

235 responses



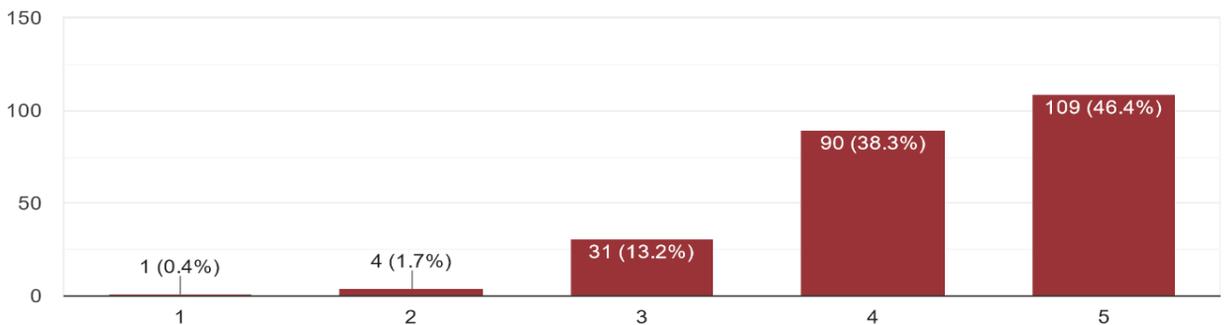
2. Knowledge Enhancement

235 responses



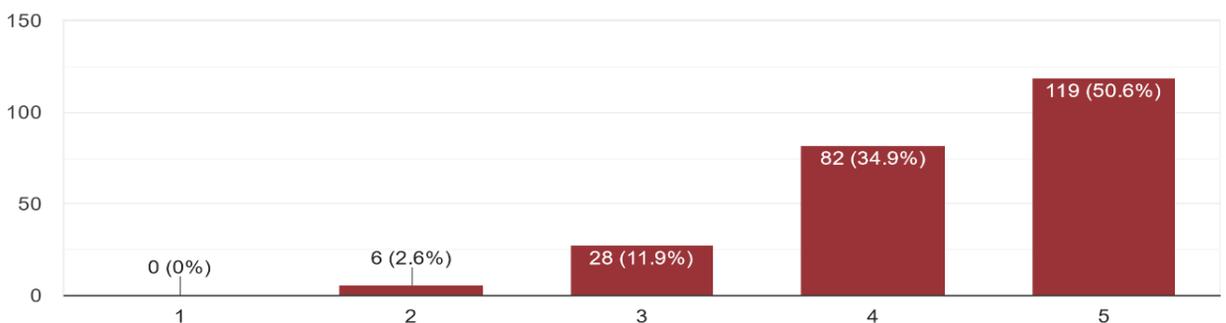
3. Relevancy of topics

235 responses



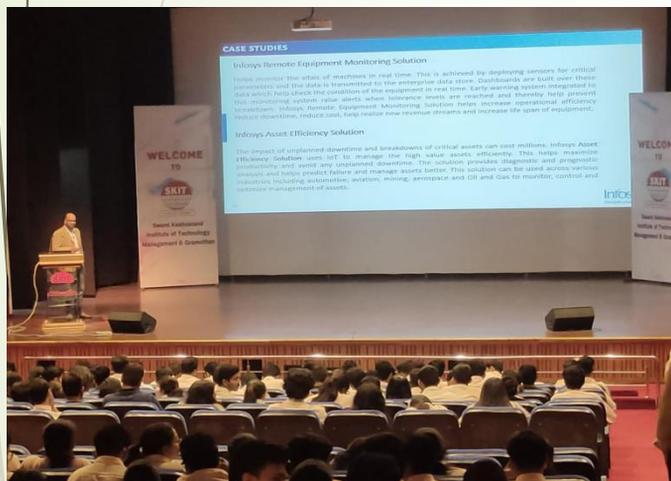
4. About speakers of Workshop

235 responses



Glimpses of the 4th Day Session

10th November 2022, 9:00 AM at Gyan Mandir Auditorium, SKIT



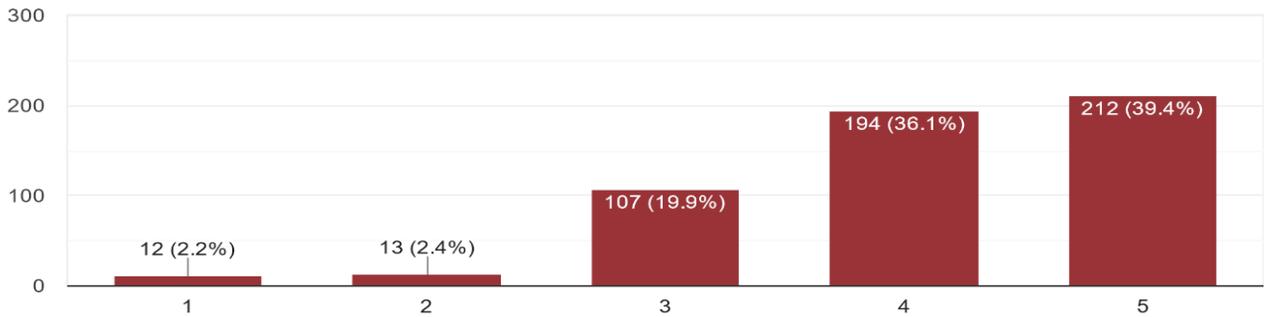
Invited Speaker:
Mr. Lalit Mohan Soni, Principal & Lead (Mining), Infosys

Day-4 Feedback Analysis

24

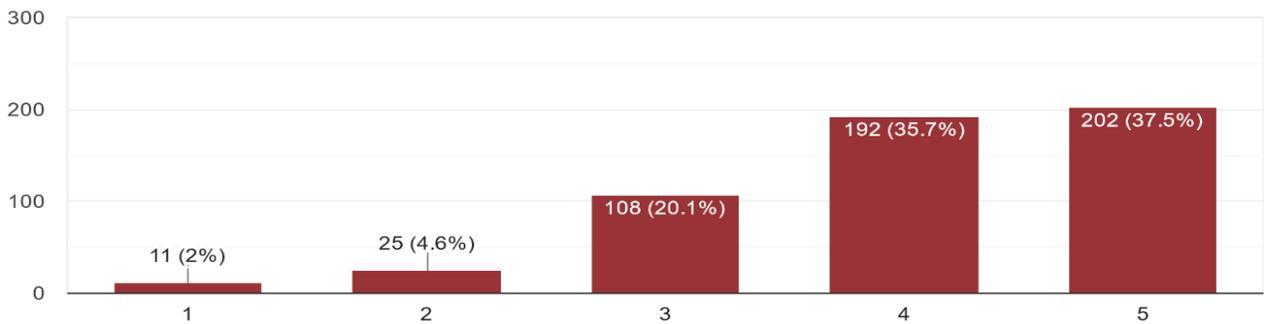
1. Your experience about the today's session

538 responses



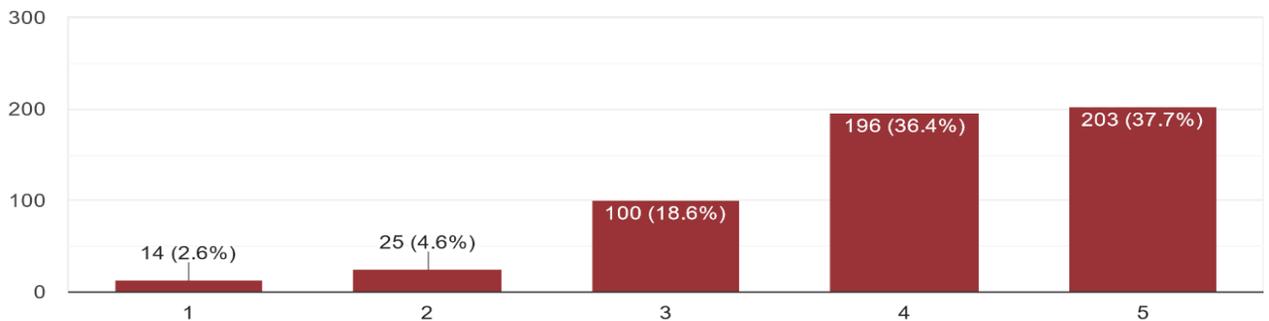
2. Knowledge Enhancement

538 responses



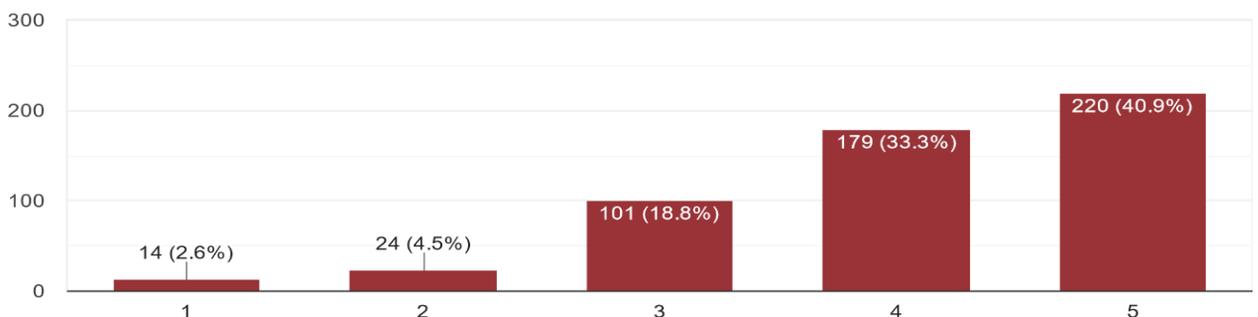
3. Relevancy of topics

538 responses



4. About speakers of Workshop

538 responses



Glimpses of the 5th Day Session

11th November 2022, 9:30 AM (Online using Cisco-Webex Platform)

25

#	Topic	Date & Time
1	Session and Class Introduction – 5 mins	
2	Introduction to IoT – 10 mins	
3	Key Trends and Statistics – 5 mins	Date : 11-Nov-2022
4	Value, Benefit and Challenges – 10 mins	Duration & Time : 1.5 hr 9:30 to 11:00
5	Solution Components – 20 mins	
6	Industry Use Cases and Case Studies – 15 mins	QA : 15 mins
7	Product Demo – 15 mins	
8	Conclusions – 10 mins	

IoT Use Case by Industry

- Healthcare
- Manufacturing
- Health Care
- Automobile
- Logistics & Supply Chain
- Retail
- Smart Building

Gartner

"The Internet of Things (IoT) is the network of physical objects that contain embedded technology to communicate and sense or interact with their internal states or the external environment."

Line graph showing data trends over time.

Substation Inspection – IBM, National Grid and Boston Dynamics

Energy & Utilities

High Voltage Spool Inspection at National Grid | Boston Dynamics

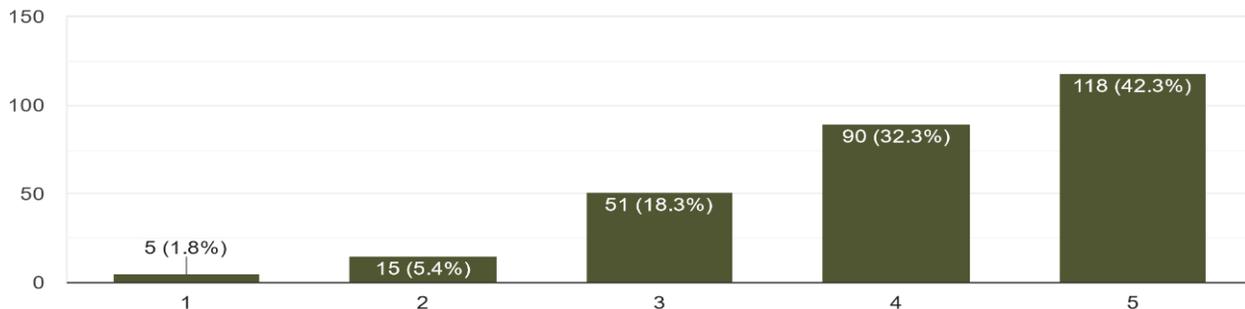
Invited Speaker:
Ms. Ratna Saravanabhavan V & Mr. Raghu Ramaswamy
Solution Architect, IBM

Day-5 Feedback Analysis

26

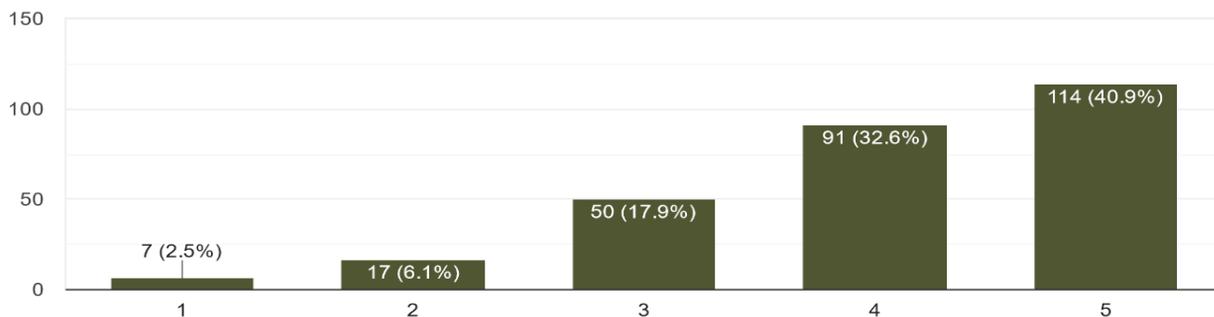
1. Your experience about the today's session

279 responses



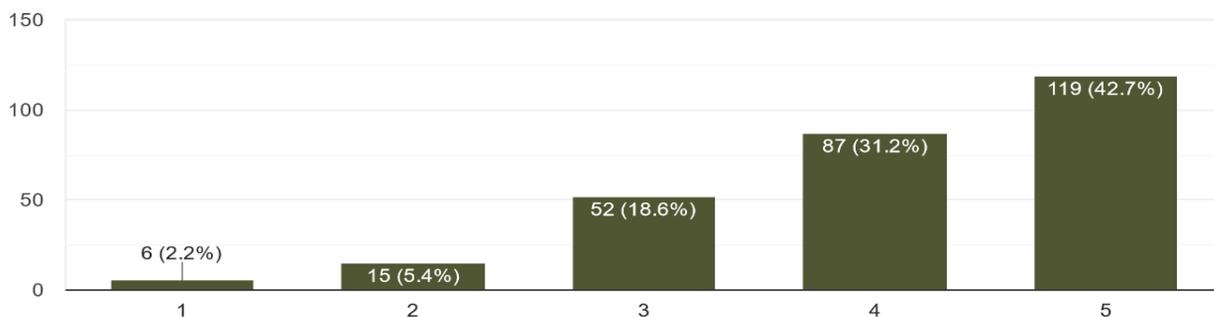
2. Knowledge Enhancement

279 responses



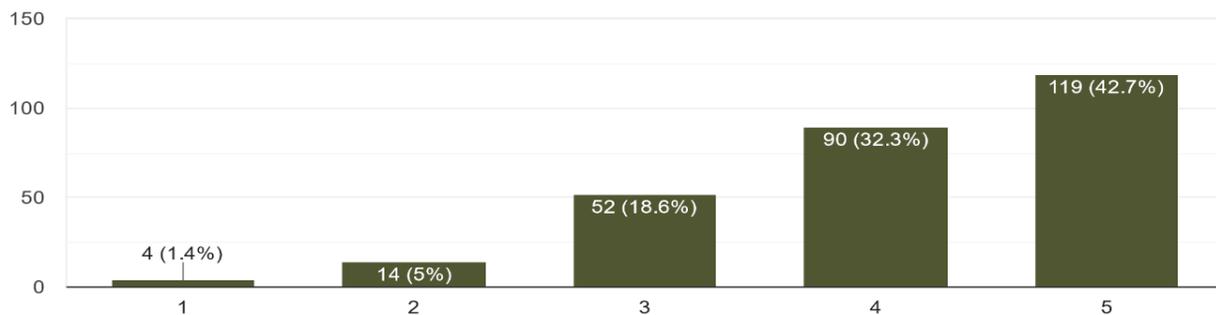
3. Relevancy of topics

279 responses



4. About speakers of Workshop

279 responses



Glimpses of the 6th Day Session

12th November 2022, 11:00 AM (Online, using Cisco-Webex Platform)

The slide features the logo of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, and the Department of Computer Science & Engineering. It is for a 'STUDENT WORKSHOP Internet of Things (IoT)'. The title is 'IoT and Analytics two sides of the same coin'. The presenter is Dr. Satyajit Rath, Head, Computer Networking & e-Management at CSIR-IMMT, Bhubaneswar.

The slide is titled 'Data Growth' and shows a line graph with an exponential curve. The y-axis represents data volume in Zettabytes. Key data points include: 2012 (Digital content = 20 Zettabytes), 2014 (5% application migration from 1 Petabyte), and 2040 (Digital Universe will increase by 140 Zettabytes). Text on the slide states: '85% of growth from new types of data with Machine generated data increasing 15x'.

The slide is titled 'Data Security' and features icons for 'Data Confidentiality', 'Data Integrity', and 'Data Authenticity'. It also includes a 'BLOCK-CHAIN' icon and a person icon with a shield, symbolizing security.

The slide is titled 'Data Science is Multidisciplinary' and features a circular diagram with 'Data Science' at the center. Surrounding it are various fields: Business Strategy, Domain Knowledge, Business Analyst, Statistics, Machine Learning, Data Mining, Data Visualization, Data Analytics, Data Processing, and Presentation. Arrows indicate the flow and integration of these disciplines.

The slide is titled 'Evolution of Database' and shows a flowchart. It starts with '1990 RDBMS', which leads to '2000 Operational Database RDBMS'. This then branches into 'Datawarehouse OLAP/DW' and 'Document DB'. 'Document DB' leads to 'Hadoop' and 'OLAP/DW'. A box labeled '2015' contains 'RDBMS', 'NoSQL', and 'Key-Value/Column Store'.

The slide is titled 'Machine Learning' and features a diagram of the machine learning process. It includes 'Modeling Training' and 'Model Deployment' stages. The training stage involves 'Supervised Learning' (Classification, Regression) and 'Unsupervised Learning' (Clustering, Association). The deployment stage involves 'Classification' and 'Regression'.

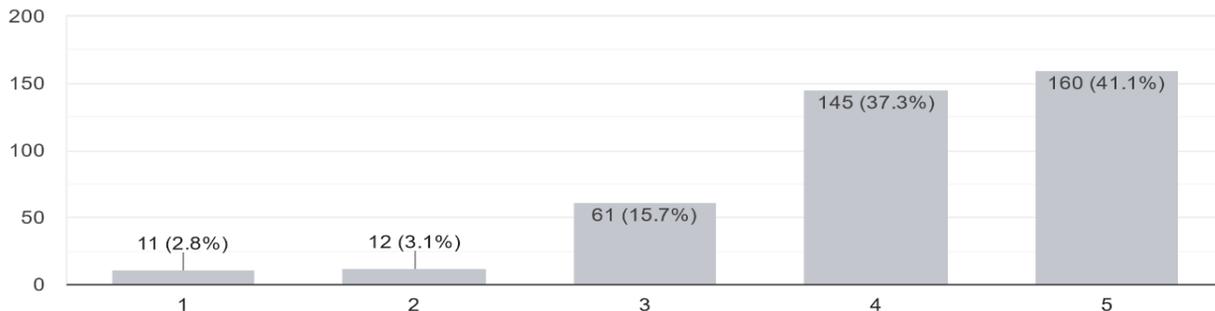
Invited Speaker:

Dr. Satyajit Rath, Principal Scientist and Head-CNeM
CSIR-IMMT, Bhubneswar

Day-6 Feedback Analysis

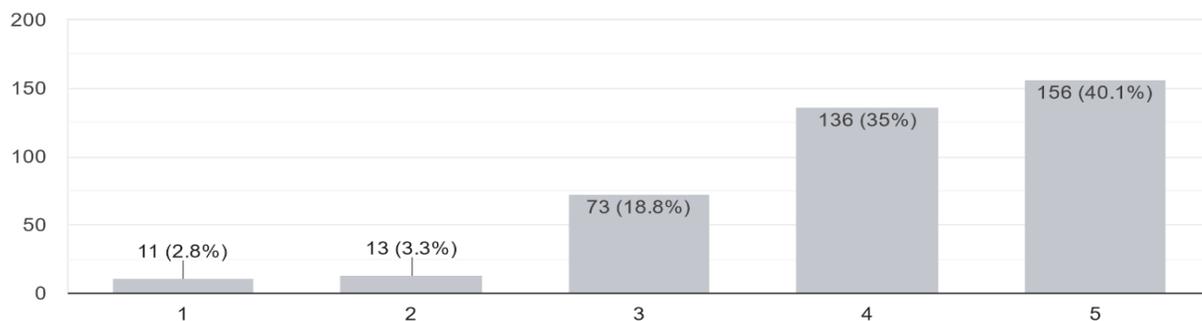
1. Your experience about the today's session

389 responses



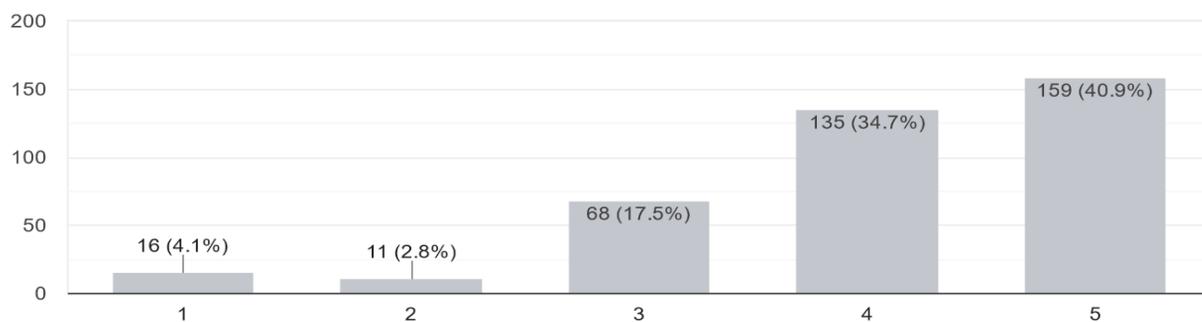
2. Knowledge Enhancement

389 responses



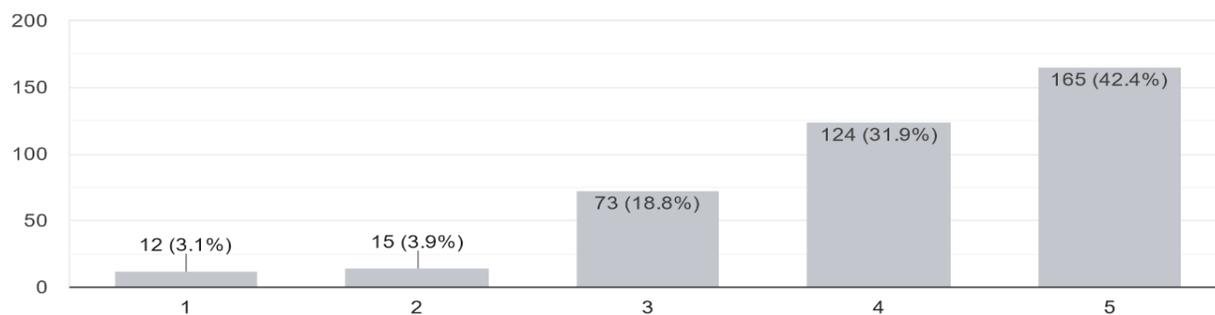
3. Relevancy of topics

389 responses



4. About speakers of Workshop

389 responses



साप्ताहिक कार्यशाला का उद्घाटन

खबरों की दुनिया

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी द्वारा इंटरनेट ऑफ थिंग्स पर विद्यार्थी केंद्रित एक सप्ताह की कार्यशाला का उद्घाटन किया गया। यह कार्यशाला इलेक्ट्रॉनिक्स और संचार विभाग तथा कंप्यूटर विज्ञान इंजीनियरिंग विभाग द्वारा संयुक्त रूप से इनोवेट स्किल्स, चंडीगढ़ और सीएसआईआर-आईएनएटेक भुवनेश्वर के सहयोग से आयोजित की गई थी।

उद्घाटन समारोह के मुख्य अतिथि श्री अजय गोदारा, सीईओ-इनोवेट स्किल, चंडीगढ़ थे। उन्होंने बताया कि आईओटी तकनीक द्वारा समाज के बढ़ते डिजिटलीकरण और डेटाफिकेशन को कई नवीन और शानदार तरीकों से तेज किया जा रहा है। इंटरकनेक्टेड चीजों के इन नेटवर्क से सेल्फ-ड्राइविंग वाहन, रोबोट असंबली लाइन और दूरस्थ

चिकित्सा उपकरण बनाना मुमकिन हुआ है, जो चिकित्सकों को सर्जरी करने और रोगियों का निदान करने में सक्षम बनाता है। उन्होंने विनिर्माण उपकरण, संपत्ति और स्थिति प्रबंधन के नेटवर्क नियंत्रण और प्रबंधन पर भी प्रकाश डाला, तकनीक में नेटवर्किंग मशीनरी, सेंसर और नियंत्रण प्रणाली का उपयोग कर के विभिन्न प्रोडक्ट के उत्पादन प्रक्रिया को अत्यधिक दक्ष बनाया जा सकता है। उद्घाटन कार्यक्रम के शुरुआत में संस्था के डायरेक्टर एकेडमिक्स (प्रो.) डॉ. एस. एल. सुराणा ने अतिथियों का स्वागत किया और डॉ. मुकेश अरोड़ा (विभागाध्यक्ष-ईसीई) ने धन्यवाद प्रस्ताव रखा। डॉ. अनिल चौधरी (विभागाध्यक्ष-आईटी) ने इस कार्यशाला के प्रारूप का विवरण दिया। कार्यक्रम के संयोजक डॉ. प्रवीण कुमार जैन, अंकित अग्रवाल, पूजा चौधरी, पल्लव रावल, अंजना सांगवान, प्रियंका शर्मा, रश्मि दधीच रहे।

तकनीक से हो रहा है बीमारियों का सटीक उपचार



डिजिटलीकरण और डेटाफिकेशन बना रहे हैं जिंदगी को आसान

बेधड़क। उदयपुर

स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान की ओर से इंटरनेट ऑफ थिंग्स पर एक सप्ताह की कार्यशाला की शुरुआत हुई। यह कार्यशाला इलेक्ट्रॉनिक्स और संचार विभाग तथा कंप्यूटर विज्ञान इंजीनियरिंग विभाग की तरफ से संयुक्त रूप से इनोवेट स्किल्स, चंडीगढ़ और सीएसआईआर-आईएनएटेक भुवनेश्वर के सहयोग से आयोजित की गई। उद्घाटन समारोह के मुख्य अतिथि इनोवेट स्किल चंडीगढ़ के सीईओ अजय गोदारा ने समारोह को संबोधित करते हुए कहा कि समाज में बढ़ते डिजिटलीकरण और डेटाफिकेशन को IoT तकनीक नित नए तरीकों से तेज कर रही है। इंटरकनेक्टेड चीजों के इन नेटवर्क से सेल्फ-ड्राइविंग व्हीकल्स, रोबोट असंबली लाइन और दूरस्थ चिकित्सा

उपकरण बनाना मुमकिन हुआ है, जो डॉक्टरों को सर्जरी में और बीमारियों का सटीक उपचार करने में सक्षम बनाता है। उन्होंने विनिर्माण उपकरण, संपत्ति और नेटवर्क नियंत्रण और प्रबंधन पर भी प्रकाश डाला। IoT तकनीक में नेटवर्किंग मशीनरी, सेंसर और नियंत्रण प्रणाली के इस्तेमाल से डिफरेंट प्रोडक्ट्स के प्रोडक्शन प्रोसेस को ज्यादा दक्ष बनाया जा सकता है।

कार्यक्रम की शुरुआत में संस्था के डायरेक्टर एकेडमिक्स; प्रो डॉ एसएल सुराणा ने प्रोग्राम में आए अतिथियों का स्वागत किया। ईसीई विभागाध्यक्ष डॉ मुकेश अरोड़ा ने धन्यवाद प्रस्ताव रखा, डॉ अनिल चौधरी ने कार्यशाला के प्रारूप का के बारे में बताया। कार्यक्रम संयोजक डॉ प्रवीण कुमार जैन, अंकित अग्रवाल, पूजा चौधरी, पल्लव रावल, अंजना सांगवान, प्रियंका शर्मा, रश्मि दधीच रहे।

इंटरनेट ऑफ थिंग्स पर कार्यशाला आयोजित हुई

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान की ओर से इंटरनेट ऑफ थिंग्स पर विद्यार्थी केंद्रित एक सप्ताह की कार्यशाला का उद्घाटन किया गया। कार्यशाला इलेक्ट्रॉनिक्स और संचार विभाग तथा कंप्यूटर विज्ञान इंजीनियरिंग विभाग द्वारा संयुक्त रूप से इनोवेट स्किल्स, चंडीगढ़ और सीएसआईआर-आईएनएटेक भुवनेश्वर के सहयोग से आयोजित की गई थी। मुख्य



अतिथि अजय गोदारा, सीईओ-इनोवेट स्किल चंडीगढ़ थे। संस्था के डायरेक्टर एकेडमिक्स (प्रो.) डॉ. एस. एल. सुराणा ने अतिथियों का स्वागत किया और डॉ. मुकेश अरोड़ा (विभागाध्यक्ष-ईसीई) ने धन्यवाद प्रस्ताव रखा।

Technical Report of Workshop

One week workshop on Internet of Things was inaugurated by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur on 7th November 2022. This workshop was jointly organized by Departments of Electronics & Communication Engineering and Computer Science & Engineering (Under the agis of Centre of excellence-IOT, SKIT) in association with Enovate Skills, Chandigarh and CSIR-IMMT: InTEC Bhubaneswar. The coordinator of the events were Dr. Praveen Kumar Jain, Mr. Ankit Agarwal, Ms. Pooja Choudhary, Mr. Pallav Rawal, Ms. Anjana Sangwan, Ms. Priyanka Sharma, Ms. Rashmi Dadheech.

Chief Guest of the inaugural ceremony was Mr. Ajay Godara, CEO-Enovate Skill, Chandigarh. He said that the increasing digitalization and datafication of society is being accelerated in several innovative and spectacular ways by the IoT movement. He also elaborated the Network control and management of manufacturing equipment, assets and situation management, The IoT intelligent systems use networking machinery, sensors and control systems to enable rapid manufacturing of new products, dynamic response to product demands, and real-time optimization of manufacturing production and supply chain networks. Dr. S. L. Surana (Director-Academics) welcome the guest and Dr. Mukesh Arora (Head-ECE) proposed the vote of Thanks. Dr. Anil Choudhary (Head-IT) given the details of the workshop.

In this workshop, First Two days sessions were taken by Mr. Ajay Godara, CEO, Enovate Skills, Chandigarh. First Day, He enlighten the participants with the Basics, Need of IOT, Component of IOT and their application with several examples. Second day, the hands on training on Arduino based IoT using Tinkercad tool was given. 3 to 4 basic projects based on Arduino were demonstrated to students. 3 batches were formed for this hands-on training.

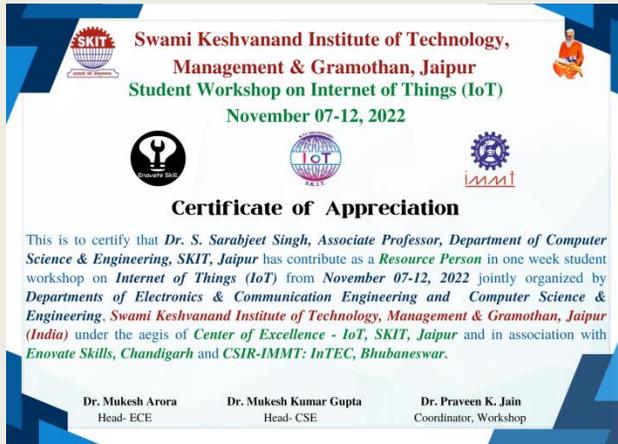
On third day, Further basic projects based on Sensors were presented using Tinkercad. Session were taken by faculty members associated with COE-IOT, SKIT (Mr. Ankit Agarwal, Mr. Yogendra Gupta and Mr. Sarabjeet Singh). Fourth day, Mr. Lalit Mohan Soni, Principal Consultant, Infosys, enlighten the participants with IOT applications and Basics of IOT Cloud.

On Fifth Day, Ms. Ratna Saravanabhavan V & Mr. Raghu Ramaswamy, Solution Architect, IBM take online session on IoT and presented several projects based on IoT. On sixth day, Dr. Satyajit Rath, Principal Scientist and Head-CNeM, CSIR-IMMT, Bhubaneswar delivered online talk on the IoT cloud data security and industrial revolution.

Chief Guest of the valedictory ceremony was Dr. Satyajit Rath , Principal Scientist and Head-CNeM, CSIR-IMMT, Bhubaneswar. He said that the technology is rapidly growing and increasing need of innovation. In next few years IoT enabled devices, vehicles and smart homes will be first choice of the human. They motivated the students for facing new challenges and think innovative ideas and develop these. The workshop report was read by Ms. Ayushi Khandal, (Workshop student coordinator). Ms. Pooja Choudhary (Workshop faculty coordinator) proposed the vote of Thanks.

The student coordinators of the events were Ayushi Khandal (B.Tech III Sem - CSE), Arushi Bansal (B.Tech III Sem - CSE), Aryan Gupta (B.Tech III Sem – CSE), Ayush Garg (B.Tech III Sem – CSE), Gaurav Sharma (B.Tech V Sem-CE), Muskan Goyal (B.Tech V Sem - CSE), Nitya Singh (B.Tech V Sem - CSE), Navya Gupta (B.Tech V Sem - CSE), Nidhi Yadav (B.Tech V Sem - CSE), Piyush Jain (B.Tech V Sem - CSE).

Sample Certificates



Sample Certificate of Resource Persons



Sample Certificate of Faculty Coordinators



Sample Certificate of Student Coordinators



Sample Certificate of Participants

Attainment of Workshop Outcomes and Program Outcomes

The assessment of WOs were done using the direct and indirect methods. The tool used for the direct attainment is the test taken after the completion of the workshop and for the assessment of indirect attainment exit survey of the participants was used.

Direct Attainment is given 80% weight and indirect attainment is given 20% weight

The Attainment Levels have been assessed as per the definitions in table:

S. No.	Type of Tool	Attainment Level=1	Attainment Level=2	Attainment Level=3
1	Exit Test X[1]	>=60% students Scoring >=60% marks	>=70% students scoring >=60% marks	>=80% students scoring >=60% marks
2	Exit Survey X[2]	>=60% students attain >=3	>=70% students attain >=3	>=80% students attain >=3
3	Overall Attainment X[3]	$X [3] = 0.8 * X [1] + 0.2 * X [2]$		

Attainment of Workshop Outcomes

	Direct Attainment	Indirect Attainment	Overall Attainment
WO1	3	3	3
WO2	3	3	3
WO3	3	3	3
WO	3	3	3

Attainment of Program Outcomes

PO attainment by this workshop =
Workshop outcome attainment level x (Mapping weight/3)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
	3	3	3	-	-	-	-	-	-	-	-	3	3	3

List of Participants

Participant Name	Student Roll No.	Department	Semester
Jai Kumar Bisaria	21ESKEC030	Electronics and Communication	3
Karan sharma	21ESKEC033	Electronics and Communication	3
Bhavesh Agarwal	21ESKEC019	Electronics and Communication	3
Jatin Bhagtani	21ESKEC300	Electronics and Communication	3
Vijay jangid	21ESKEC073	Electronics and Communication	3
Ujjawal sharma	21ESKEC069	Electronics and Communication	3
Himanshu Agarwal	21ESKEC027	Electronics and Communication	3
Abhijeet Agarwal	21ESKEC004	Electronics and Communication	3
Arsh Lakhwal	21ESKEC015	Electronics and Communication	3
Aakash yadav	21ESKEC001	Electronics and Communication	3
Aarohi Malsaria	21ESKEC002	Electronics and Communication	3
Ameen Zehra	21ESKEC012	Electronics and Communication	3
Anmol Gupta	21ESKEC013	Electronics and Communication	3
Lovesh chhabra	21eskec038	Electronics and Communication	3
Richi singh	21ESKEC054	Electronics and Communication	3
Aryan birla	B210957	Electronics and Communication	3
Shreya jha	21ESKEC064	Electronics and Communication	3
Deepanshu Khandelwal	21ESKEC021	Electronics and Communication	3
Vanshaj Kataria	21ESKEC070	Electronics and Communication	3
Shivin Shyam Kasat	21ESKEC063	Electronics and Communication	3
Abhijeet Giri	21ESKEC005	Electronics and Communication	3
Naman Tak	21ESKEC041	Electronics and Communication	3
Karishma kumawat	21ESKEC034	Electronics and Communication	3
Anupam jain	21ESKEC014	Electronics and Communication	3
Khushi Rajawat	21ESKEC035	Electronics and Communication	3
Vishal Kumar	21ESKEC075	Electronics and Communication	3
Rohan raj	21ESKEC052	Electronics and Communication	3
Abhishek Kumar	21ESKEC007	Electronics and Communication	3
Varun mathur	21ESKEC071	Electronics and Communication	3
Vikram pal	21ESKEC074	Electronics and Communication	3
Diya Sharma	21ESKEC024	Electronics and Communication	3
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Ayushi Katyayan	21ESKIT029	Information Technology	3
Tanmay joshi	21ESKIT108	Information Technology	3
Sumit Sharma	21ESKIT106	Information Technology	3
Vrinda garg	21ESKIT123	Information Technology	3
Garvita Sakhrani	21ESKIT049	Information Technology	3
Lavneesh Kumar Gupta	21ESKIT064	Information Technology	3
Chirag	21Eskit036	Information Technology	3
Diva Bhati	21ESKIT044	Information Technology	3
Vaibhav Singh	21ESKIT110	Information Technology	3
Kartikey sharma	21ESKIT060	Information Technology	3
Param Soni	21ESKIT079	Information Technology	3
Archi Patidar	21ESKIT020	Information Technology	3
Vishwas Vijay Vargiya	21ESKIT120	Information Technology	3
Harshit Kumar Jain	21ESKIT053	Information Technology	3
Kalpana Sharma	21ESKIT057	Information Technology	3
Abhishek gupta	21ESKIT003	Information Technology	3
Vishal Agarwal	21ESKIT117	Information Technology	3
Niharika Singh	21ESKIT077	Information Technology	3
Tarun Saini	21ESKIT305	Information Technology	3
Riya Parakh	21ESKIT096	Information Technology	3
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Aditya Singh	21ESKIT008	Information Technology	3
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Aryan sharma	21ESKIT023	Information Technology	3
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Saket jain	21ESKIT100	Information Technology	3
Chetan Singh Rathore	21ESKIT033	Information Technology	3
Sarthak Jain	21ESKIT103	Information Technology	3
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Samyak Jain	21ESKIT102	Information Technology	3
Vishesh singh	21ESKIT118	Information Technology	3
Ritesh saini	21ESKIT095	Information Technology	3
Garvit Khandelwal	21ESKIT307	Information Technology	3
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Tarun Kumar	21ESKIT109	Information Technology	3
Yashpal siyag	21ESKIT308	Information Technology	3
Divit Gautam	21ESKIT045	Information Technology	3
Aditya Mishra	21ESKIT006	Information Technology	3
Mukul Acharya	21ESKIT303	Information Technology	3
Harshvardan Singh	21ESKIT054	Information Technology	3
Prateek sharma	21ESKIT311	Information Technology	3
Pranshul Sukhwai	21ESKIT082	Information Technology	3
Rohit jain	21ESKIT312	Information Technology	3
Yash Gupta	21ESKIT124	Information Technology	3
Avish Raghav	21ESKIT026	Information Technology	3
Priyanka Gupta	21ESKIT087	Information Technology	3
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Avishi Vijay	21ESKIT027	Information Technology	3
Vansh rastogi	21ESKIT111	Information Technology	3
Himanshu Sharma	21ESKIT309	Information Technology	3
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Radhika singhal	21ESKIT090	Information Technology	3
Sahil Kumar Choudhary	21ESKIT309	Information Technology	3
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Pallvi Thakur	21ESKIT078	Information Technology	3
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Deepansh Sharma	21ESKCA034	Computer Science and Engineering	3
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Rohit Rajoriya	21eskcs191	Computer Science and Engineering	3
Hardik singh	21ESKCS087	Computer Science and Engineering	3
Diwakar	21ESKCS078	Computer Science and Engineering	3
Divyanshu Gupta	21ESKCS077	Computer Science and Engineering	3
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Mahtvakanksha	21eskca068	Computer Science and Engineering	3
Priyanshu Goyal	21ESKCA086	Computer Science and Engineering	3
Ismail Ali	L220005	Computer Science and Engineering	3
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Kirti Sharma	21ESKCA064	Computer Science and Engineering	3
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Manish Dudi	21ESKCS124	Computer Science and Engineering	3
Harsh Yadav	22ESKCS092	Computer Science and Engineering	3
Dev Mukhija	21ESKCS066	Computer Science and Engineering	3
Kunal Gupta	21ESKCS115	Computer Science and Engineering	3
Chetan Sharma	21Eskcs060	Computer Science and Engineering	3
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Rajni Attri	21ESKCS177	Computer Science and Engineering	3
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Payal Nagar	21ESKCS155	Computer Science and Engineering	3
Harshita Jain	21ESKCS094	Computer Science and Engineering	3
Abhishek Saini	21ESKCS013	Computer Science and Engineering	3
Sanskriti Yadav	21ESKCS803	Computer Science and Engineering	3
Adarsh kumar	L220016	Computer Science and Engineering	3
Rahul Dubey	21ESKCS173	Computer Science and Engineering	3
Doly Bansal	21ESKCS080	Computer Science and Engineering	3
Rohit Garg	21ESKCS189	Computer Science and Engineering	3
Ansh Garg	21ESKCS034	Computer Science and Engineering	3
Naman Jain	21ESKCS138	Computer Science and Engineering	3
Arya Negi	21ESKCA027	Computer Science and Engineering	3
Kunal Jaiswal	21ESKCA065	Computer Science and Engineering	3
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Rajveer Singh	21ESKCS178	Computer Science and Engineering	3
Akshay Raj Singh Rathore	21ESKCS023	Computer Science and Engineering	3
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Mudit Singhal	21ESKCS132	Computer Science and Engineering	3
Aman Chaumal	21ESKCS024	Computer Science and Engineering	3
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