Swami Keshvanand Institute of Technology,
Management & Gramothan
Ramnagaria (Jagatpura) Jaipur-17
Department of Computer Science & Engineering

A

REPORT

One Week Student Workshop

On

"Unlocking the power of IoT"

(Under the aegis of IoT Centre of Excellence)

7th September -11th September, 2024

Submitted By:

Dr. S. Sarabjeet Singh Sethi, Associate Professor (CSE), SKIT
Ms. Priyanka Sharma, Assistant Professor (CSE), SKIT
Mr. Dinesh Kumar, Assistant Professor (CSE), SKIT

Organized by:

Department of Computer Science & Engineering (NBA Accredited)
Swami Keshvanand Institute of Technology, Management &Gramothan,
Jaipur-302017

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About SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been Ranked No. 1 Engineering Institute in Rajasthan by RTU, Kota consecutively for the last seven years. SKIT is a selective comprehensive institution offering Undergraduate, Postgraduate & Doctorate Programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed Professionals and Academicians. During all the past years SKIT has emerged as a Premier Centre of Technical Education not only in Rajasthan but also in Northern India which has been realized through efficient and dedicated Faculty Members, Innovative Teaching Learning Methods, State of the art infrastructures and Core Value of Discipline. The various undergraduate programmes of the institute are accredited by the National Assessment Accreditation Council (NAAC) and the National Board of Accreditation (NBA). Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry–Institute Interface. Apart from University curriculum SKIT also pursues activities for Research and Development in various fields.

Vision: To promote higher learning in advanced technology, management skills and industrial research to make our country a global player

Mission: To promote quality education, training and research in the field of engineering & management by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

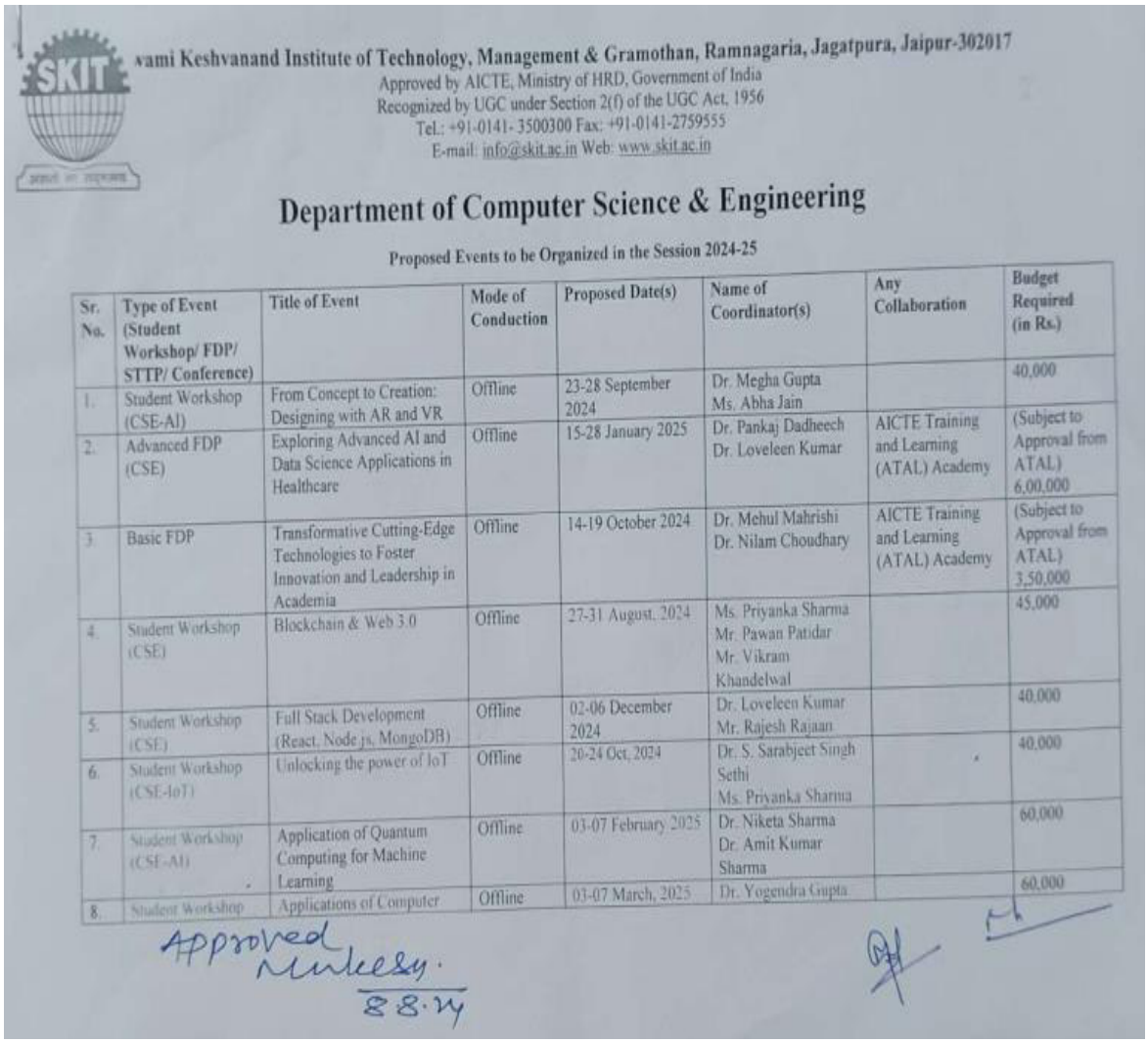
Quality Policy: We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves.
Institute would pursue quality in

- All its endeavors like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.
- Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services.

About Department of CSE

CSEDepartment of SKIT is NBA accredited and offerundergraduate programmes in CSE, CSE-AI, CSE-DS, and CSE-IOT, postgraduateand Ph.D. programmes in CSE. The major areas ofresearch are Internet of things, Big Data Analytics, Cloud Computing &Virtualization, Artificial Intelligence, Security, Compilers& Programming Languages, Computer Architecture,Bioinformatics and Theoretical Computer Science. CSE Department has number of laboratories equipped with thestate-of-the-art computing facilities. The Department is also having a "Centre of Excellence in IoT" recognized byRajasthan Technical University, Kota.

Approval letter for Student Workshop



vami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur-302017
Approved by AICTE, Ministry of HRD, Government of India
Recognized by UGC under Section 2(f) of the UGC Act, 1956
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Department of Computer Science & Engineering

Proposed Events to be Organized in the Session 2024-25

Sr. No.	Type of Event (Student Workshop/ FDP/ STTP/ Conference)	Title of Event	Mode of Conduction	Proposed Date(s)	Name of Coordinator(s)	Any Collaboration	Budget Required (in Rs.)
1.	Student Workshop (CSE-AI)	From Concept to Creation: Designing with AR and VR	Offline	23-28 September 2024	Dr. Megha Gupta Ms. Abha Jain		40,000
2.	Advanced FDP (CSE)	Exploring Advanced AI and Data Science Applications in Healthcare	Offline	15-28 January 2025	Dr. Pankaj Dadheech Dr. Loveleen Kumar	AICTE Training and Learning (ATAL) Academy	(Subject to Approval from ATAL) 6,00,000
3.	Basic FDP	Transformative Cutting-Edge Technologies to Foster Innovation and Leadership in Academia	Offline	14-19 October 2024	Dr. Mehul Mahrishi Dr. Nilam Choudhary	AICTE Training and Learning (ATAL) Academy	(Subject to Approval from ATAL) 3,50,000
4.	Student Workshop (CSE)	Blockchain & Web 3.0	Offline	27-31 August, 2024	Ms. Priyanka Sharma Mr. Pawan Patidar Mr. Vikram Khandelwal		45,000
5.	Student Workshop (CSE)	Full Stack Development (React, Node.js, MongoDB)	Offline	02-06 December 2024	Dr. Loveleen Kumar Mr. Rajesh Rajaan		40,000
6.	Student Workshop (CSE-IoT)	Unlocking the power of IoT	Offline	20-24 Oct, 2024	Dr. S. Sarabjeet Singh Sethi Ms. Priyanka Sharma		40,000
7.	Student Workshop (CSE-AI)	Application of Quantum Computing for Machine Learning	Offline	03-07 February 2025	Dr. Niketa Sharma Dr. Amit Kumar Sharma		60,000
8.	Student Workshop	Applications of Computer	Offline	03-07 March, 2025	Dr. Yogendra Gupta		60,000

Approved Nucleus.
28.24

Organizing Committee of Workshop

Student Workshop is organized by Department of Computer Science & Engineering Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, under the guidance of Dr. Mehul Mahrishi, HOD (CSE).

Coordinators of the Workshop are:

1. Dr. S. Sarabjeet Singh Sethi, Associate Professor (CSE), SKIT
2. Ms. Priyanka Sharma, Assistant Professor (CSE), SKIT
3. Mr. Dinesh Kumar, Assistant Professor (CSE), SKIT

Objectives of the Workshop

Workshop is intended to introduce with fundamentals of Internet of Things with its applications. Workshop would help participant to understand the key concept and recent advancements in the field of Internet of Thingsand its enabling technologies. At the end of the Workshop, participants shall be able to understand the technologies for future applications. Here are potential objectives for such a workshop:

- Understand the basics of the Internet of Things (IoT) and its significance.
- Explore how IoT connects devices, sensors, and data for smarter decision-making.
- Discuss real-world use cases and projects leveraging IoT technology.
- Familiarize students with IoT hardware like sensors, actuators, microcontrollers, etc.
- Engage in practical activities to build basic IoT prototypes or projects.
- Learn key communication protocols like MQTT, CoAP, used in IoT networks.
- Understand the role of cloud computing in IoT data management.

Contents of the Workshop

Content delivered by Experts (Mr. Atul Kumar, Mr. Nawal , Mr. Harsh Tenguriya and Mr. Akash Kumar Kirori):

Day 1: Introduction to Internet of Things

- **Morning**

Mr. Atul and Mr. Nawal gave a brief introduction of IoT and explained various communication protocols. They also gave live demo of real time data.

- **Afternoon**

Mr. Harsh emphasised on sensors and actuators followed by hands on training on different microcontroller boards.

Day 2: Hands-On IoT Programming & Hardware Interfacing

The second day of the workshop deliveredby Mr. Harsh focused on practical applications of IoT programming and hardware interfacing, allowing students to build a foundational understanding of IoT ecosystems. Students were introduced to sensors and actuators, exploring their functionality and integration with the Arduino Uno.In the hands-on segment, students engaged in programming Arduino Uno to read sensor data and control actuators. Total 24 sensors were exposed to the students. A core exercise involved setting up a temperature sensor to send data to the cloud and trigger actions like LED lighting. The day concluded with troubleshooting and debugging exercises, encouraging collaborative problem-solving. This immersive experience helped participants gain confidence in IoT hardware and software interfacing, providing a strong base for further IoT development.

Day 3: Advanced IoT Protocols and Real-Time Systems (Hands-On)

Day 3 of the workshop delved into advanced IoT protocols and real-time systems, building on the foundational knowledge from day 2. The day began with an introduction to advanced communication protocols, including CoAP and AMQP, and their applications in complex IoT networks. Students explored the intricacies of data transfer, security, and efficiency in these protocols.During the hands-on segment, students worked onWireless Communication Protocols like Bluetooth, and Wi-Fi and communication protocols like UART, I2C, and SPI.Exercises involved configuring devices to respond instantly to environmental changes

and optimizing latency. The session wrapped up with a group discussion on real-time applications offering students a robust understanding of the technical and practical aspects of advanced IoT systems.

Day 4: Group-Based IoT Problem Solving (Hands-On)

On Day 4 of the IoT workshop, students were divided into small groups and assigned real-world IoT problems to solve collaboratively. Each group was given a unique challenge. The goal was to apply the protocols and programming skills covered in previous sessions.Throughout the day, groups worked hands-on to design, program, and troubleshoot IoT solutions, using Arduino Uno and various sensors. Mr. Harsh provided guidance as students tackled issues related to data transmission, device synchronization, and response accuracy. The day concluded with each group presenting their progress and learning experiences, fostering a collaborative and practical approach to IoT problem-solving.

Day 5: Role of IoT and Retrofitting in Electric Vehicles

The final day of the IoT workshop was taken by Mr. Akash Kumar Kirori, CEO of HVRDC Electric Private Limited. He focused on the intersection of IoT technology and electric vehicle (EV) retrofitting. The session began with an overview of how IoT can enhance EV performance, safety, and user experience. Key topics included real-time monitoring, predictive maintenance, and the integration of IoT sensors for tracking battery health, energy consumption, and vehicle diagnostics. Students explored retrofitting options for traditional vehicles, discussed how IoT-enabled devices can be used to convert them into smart EVs. This session underscored IoT's transformative role in the EV sector, particularly in advancing sustainable transportation through retrofitting. The instructor also gave a live demonstration of an EV unit and showed real-time data on the dashboard of his company. The closing ceremony featured remarks from Prof. Dr. Mehul Mahrishi, Head of the Computer Science & Engineering department, who distributed the certificates to students.

Outcomes of the Workshop

After the completion of this workshop, the students

- **Gained** a foundational understanding of IoT concepts, architecture, and applications.
- **Explored** IoT use cases across industries, emphasizing their impact on automation and data-driven insights.
- **Discussed** essential IoT components, including sensors, actuators, and communication protocols.
- **Developed** skills in programming Arduino & ESP-32 and interfacing with IoT hardware.
- **Practiced** sensor data collection and actuator control with Arduino & ESP-32.
- **Improved** troubleshooting and debugging techniques for IoT devices.
- **Studied** advanced IoT protocols (e.g., CoAP, AMQP) for optimized data communication.
- **Implemented** real-time systems for immediate response to environmental changes.
- **Collaborated** in groups to tackle real-world IoT challenges with hands-on solutions.
- **Applied** skills in protocol selection, device synchronization, and data handling.
- **Enhanced** teamwork and project-based problem-solving abilities, with each group presenting solutions.
- **Gained** insights into the application of IoT in electric vehicle (EV) monitoring and management.
- **Explored** retrofitting techniques for converting traditional vehicles into IoT-enabled EVs.

Each day's activities provided students with practical and technical skills, deepening their understanding of IoT's role in modern technology solutions.

List of Experts (Resource persons)

S.No.	Resource Person	Designation	Organization	Country
1	Mr. Atul Kumar	New Product Development Manager	NESSCO, Jaipur	India
2	Mr. Harsh Tenguriya	Technical Mentor	Automatically Entreprise, Jaipur	India
3	Mr. Akash Kumar Kirori	CEO	HVRDC Electric Private Limited, Jaipur	India

Workshop Brochure

PATRON

Shri Raja Ram Meel, Patron, SKIT

Shri Surja Ram Meel, Chairman, SKIT

ADVISORS

Shri Jaipal Meel, Director, SKIT
Prof. (Dr.) S.L. Surana, Director (Acad.), SKIT
Mrs. Rachna Meel, Registrar, SKIT
Prof. Ramesh Kumar Pachar, Principal, SKIT
Mrs. Abha Meel, Advisor, SKIT
Prof. (Dr.) R.K. Jain, Dean, SKIT
Prof. (Dr.) Mehul Mahrishi, HOD (CSE), SKIT
Prof. (Dr.) Anil Choudhary, HOD (IT), SKIT
Prof. (Dr.) Mukesh Arora, HOD (ECE), SKIT
Prof. (Dr.) Dheeraj Joshi, HOD (ME), SKIT
Prof. (Dr.) D.K. Sharma, HOD (CE), SKIT
Prof. (Dr.) Sarfaraz Nawaz, HOD (EE), SKIT
Prof. (Dr.) Ona Ladiwal, HOD (DMS), SKIT
Prof. (Dr.) Rohit Mukherjee, Incharge, B.Tech.I Year,SKIT
Prof. (Dr.) Amber Shrivastava, Head (Maths), SKIT
Dr. Sharda Soni, Head (Chemistry), SKIT
Prof. (Dr.) Brajraj Sharma, Head (Physics), SKIT
Prof. (Dr.) Neha Purohit, Head (English), SKIT

COORDINATORS

Dr. Sarabjeet Singh Sethi, Associate Professor (CSE), SKIT
Ms. Priyanka Sharma, Assistant Professor (CSE), SKIT

ORGANIZING SECRETARY

Mr. Dinesh Kumar, Assistant Professor (CSE), SKIT

ORGANIZING COMMITTEE

Department of Computer Science & Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan, India-302017.

REGISTRATION FORM

To attend the workshop, kindly register yourself by filling the registration form on the link/QR code:
https://forms.gle/pnSzUCyMZUuDXGtE6

Note:

- Workshop will be conducted in offline mode only.
- The registration for workshop is for III Sem IoT branch students only on first come first serve basis.
- Certificates will be provided to the participants who will attend 90% of the sessions and submit feedback of the workshop.
- For any queries regarding Workshop, please contact:

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priyanka.sharma@skit.ac.in

Mr. Dinesh Kumar
Mobile: +91-9166499480
Dinesh.kumar@skit.ac.in

One Week Student Workshop (Offline)
on
"Unlocking the power of IoT"

07th-11th October, 2024

Organized By:
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(Under the aegis of IoT Centre of Excellence)

Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur – 302017

Website: www.skit.ac.in
Contact: 0141-3500300

ABOUT PROGRAMME

The workshop intends to convey the crucial principles, architecture, and applications of the Internet of Things (IoT). It will educate participants on how to set up and use IoT devices such as sensors and microcontrollers. At the end of the program, participants should be able to comprehend the technologies for future applications. Participants will also get a grasp of the IoT security concerns and how to protect data and devices in a connected world.

OBJECTIVES OF THE WORKSHOP

- To acquaint participants with recent advancements in the field of IoT and enabling technologies.
- To explore the research opportunities and challenges of IoT technologies.
- To share the current state of research and practice.
- To provide an opportunity for the participants to interact and learn from experts.

CONTENTS

- Introduction to the Internet of Things (IoT) and enabling technologies.
- Hardware platforms like Arduino Uno, Raspberry Pi, and ESP32.
- Various Hardware sensors and actuators.
- Passing data to the web server.
- Battery Management System in E-vehicles.
- Advanced Topics & Future Trends

ABOUT SKIT JAIPUR

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DEPARTMENT OF CSE

The department is NBA accredited and offers undergraduate, postgraduate, and Ph.D. programmes in CSE. The major areas of research are the Internet of Things, Machine Learning, Big Data Analytics, Cloud Computing & Virtualization, Artificial Intelligence, Security, Compilers & Programming Languages, Computer Architecture, Bioinformatics and Theoretical Computer Science. The department has various research laboratories with state-of-the-art computing facilities. The department is also recognized as a "Center of Excellence in IoT" by Rajasthan Technical University, Kota.

RESOURCE PERSONS

The various sessions of the Workshop will be taken by eminent speakers from reputed Institutions and Industries across the globe.

TARGETED AUDIENCE

This workshop will be beneficial for students of the IoT domain.

REGISTRATION FEE

There is no registration fee.

IMPORTANT DATES

Last Date for Online Registration: 5/10/2024
Workshop Dates: 07/10/2024 to 11/10/2024

Workshop Schedule

Day	Topics
Day 1	Introduction to Internet of Things
Day 2	Hands-On IoT Programming & Hardware Interfacing
Day 3	Advanced IoT Protocols and Real-Time Systems (Hands-On)
Day 4	Group-Based IoT Problem Solving (Hands-On)
Day 5	Role of IoT and Retrofitting in Electric Vehicles

Glimpses of Inaugural Ceremony

News Coverage

The Department of Computer Science & Engineering at Swami Keshvanand Institute of Technology, Jaipur, launched a five-day workshop on "Unlocking the Power of IoT" under the IoT Centre of Excellence on Monday. The workshop focuses on IoT fundamentals and applications. Prof (Dr) Mehul Mahrishi, HOD (CSE), welcomed speakers Atul Kumar, Nawa and Harsh Tenguriya. Atul introduced IoT and communication protocols, while Harsh provided hands-on training on microcontroller boards. The workshop is coordinated by Dr S Sarabjeet Singh Sethi and the team.

छात्र कार्यशाला का हुआ आयोजन

जयपुर। (आस-पास ब्यूरो) कंप्यूटर विज्ञान और इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथान की ओर से आईओटी-सेंटर ऑफ एक्सीलेंस के तत्वावधान में अन लुकिंग द पावर ऑफ लॉट पर पांच दिवसीय छात्र कार्यशाला का शुरू की गई। कार्यशाला का उद्देश्य लॉट और इसके अनुप्रयोगों के बुनियादी सिद्धांतों को पेश करना है। प्रोफेसर (डॉ.) मेहुल महर्षि, एचओडी (सीएसई) ने प्रतिष्ठित वक्ता अतुल कुमार, नए उत्पाद विकास प्रबंधक, नेस्को, नवल और हर्ष तेनगुरिया, तकनीकी सलाहकार का स्वागत किया । अतुल और नवल ने लॉट का संक्षिप्त परिचय दिया और विभिन्न संचार प्रोटोकॉल के बारे में बताया। उन्होंने रियल टाइम डेटा का लाइव डेमो भी दिया। हर्ष ने विभिन्न माइक्रोकंट्रोलर बोर्डों पर व्यावहारिक प्रशिक्षण के बाद सेंसर और एक्चुएटर्स पर जोर दिया। कार्यशाला का समन्वयन डॉ. एस. सरबजीत सिंह सेठी (एसोसिएट प्रोफेसर, सीएसई), प्रियंका शर्मा (सहायक प्रोफेसर, सीएसई), दिनेश कुमार (सहायक प्रोफेसर, सीएसई) द्वारा किया गया। तकनीकी सहयोग चंदन सिंह धाकड़ द्वारा किया गया।

एसकेआईटी में पांच दिवसीय छात्र कार्यशाला

कामयाब कलम, जयपुर

कंप्यूटर विज्ञान और इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जगतपुरा, जयपुर ने आईओटी सेंटर ऑफ एक्सीलेंस के तत्वावधान में पांच दिवसीय छात्र कार्यशाला का सफलतापूर्वक समापन किया। तकनीकी सलाहकार हर्ष तेनगुरिया ने कई सेंसरों का व्यावहारिक प्रशिक्षण दिया। छात्रों ने एमक्यूटीटी सर्वर के माध्यम से क्लाउड कनेक्टिविटी पर ध्यान केंद्रित करते हुए, आर्डुइनो और एसपी माइक्रोकंट्रोलर का उपयोग करके इन्हें एकीकृत किया। अंतिम दिन का सत्र एचवीआरडीसी इलेक्ट्रिक प्राइवेट लिमिटेड के सीईओ आकाश कुमार किरोड़ी ने लिया। उन्होंने इलेक्ट्रिक वाहनों में लॉट और रेट्रोफिटिंग की भूमिका पर जोर दिया। उन्होंने एक ईवी यूनिट का लाइव प्रदर्शन भी किया और अपनी कंपनी के डैशबोर्ड पर वास्तविक समय का डेटा दिखाया। समापन समारोह में कंप्यूटर विज्ञान और इंजीनियरिंग विभाग के प्रमुख प्रोफेसर डॉ. मेहुल महर्षि, ने प्रतिभागियों को प्रमाण पत्र वितरित किए।

एसकेआईटी में पांच दिवसीय छात्र कार्यशाला की शुरुआत

P3 Police Public Politics

जयपुर। कंप्यूटर विज्ञान और इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथान, जयपुर द्वारा आईओटी-सेंटर ऑफ एक्सीलेंस के तत्वावधान में "Unlockcing the power of IoT" पर पांच दिवसीय छात्र कार्यशाला का शुरू की गई। कार्यशाला का उद्देश्य IoT और इसके अनुप्रयोगों के बुनियादी सिद्धांतों को पेश करना है। प्रोफेसर (डॉ.) मेहुल महर्षि, एचओडी (सीएसई) ने प्रतिष्ठित वक्ताओं श्री अतुल कुमार, नए उत्पाद विकास प्रबंधक, नेस्को, श्री नवल और श्री हर्ष तेनगुरिया, तकनीकी सलाहकार का स्वागत किया है। श्री अतुल और श्री

नवल ने IoT का संक्षिप्त परिचय दिया और विभिन्न संचार प्रोटोकॉल के बारे में बताया। उन्होंने रियल टाइम डेटा का लाइव डेमो भी दिया. श्री हर्ष ने विभिन्न माइक्रोकंट्रोलर बोर्डों पर व्यावहारिक प्रशिक्षण के बाद सेंसर और एक्चुएटर्स पर जोर दिया। कार्यशाला का समन्वयन डॉ. एस. सरबजीत सिंह सेठी (एसोसिएट प्रोफेसर, सीएसई), सुश्री प्रियंका शर्मा (सहायक प्रोफेसर, सीएसई), श्री दिनेश कुमार (सहायक प्रोफेसर, सीएसई) द्वारा किया गया। तकनीकी सहयोग श्री चंदन सिंह धाकड़ द्वारा किया गया।

एसकेआईटी में पांच दिवसीय छात्र कार्यशाला

जयपुर।(आस-पास ब्यूरो) कंप्यूटर विज्ञान और इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जगतपुरा, जयपुर ने आईओटी सेंटर ऑफ एक्सीलेंस के तत्वावधान में पांच दिवसीय छात्र कार्यशाला का सफलतापूर्वक समापन किया। तकनीकी सलाहकार हर्ष तेनगुरिया ने कई सेंसरों का व्यावहारिक प्रशिक्षण दिया। छात्रों ने एमक्यूटीटी सर्वर के माध्यम से क्लाउड कनेक्टिविटी पर ध्यान केंद्रित करते हुए, आर्डुइनो और एसपी माइक्रोकंट्रोलर का उपयोग करके इन्हें एकीकृत किया। अंतिम दिन का सत्र एचवीआरडीसी इलेक्ट्रिक प्राइवेट लिमिटेड के सीईओ आकाश कुमार किरोड़ी ने लिया। उन्होंने इलेक्ट्रिक वाहनों में लॉट और रेट्रोफिटिंग की भूमिका पर जोर दिया। उन्होंने एक ईवी यूनिट का लाइव प्रदर्शन भी किया और अपनी कंपनी के डैशबोर्ड पर वास्तविक समय का डेटा दिखाया। समापन समारोह में कंप्यूटर विज्ञान और इंजीनियरिंग विभाग के प्रमुख प्रोफेसर डॉ. मेहुल महर्षि , ने प्रतिभागियों को प्रमाण पत्र वितरित किए।

एसकेआईटी में पांच दिवसीय छात्र कार्यशाला

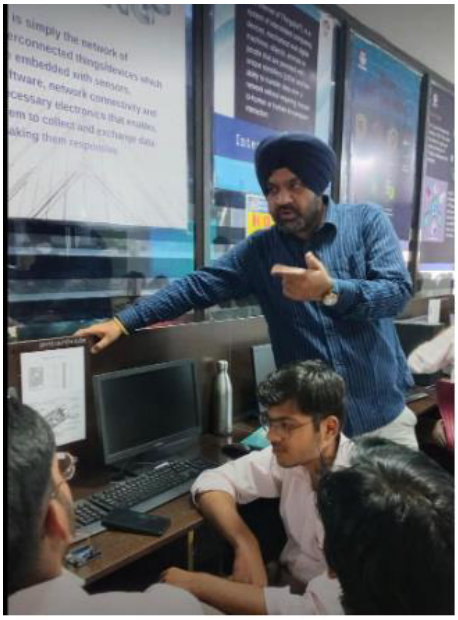
जयपुर (मृदुल पत्रिका)। कंप्यूटर विज्ञान और इंजीनियरिंग विभाग, स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जगतपुरा, जयपुर ने आईओटी सेंटर ऑफ एक्सीलेंस के तत्वावधान में पांच दिवसीय छात्र कार्यशाला का सफल तापूर्वक समापन किया। तकनीकी सलाहकार हर्ष तेनगुरिया ने कई सेंसरों का व्यावहारिक प्रशिक्षण दिया। छात्रों ने एमक्यूटीटी सर्वर के माध्यम से क्लाउड कनेक्टिविटी पर ध्यान केंद्रित करते हुए, आर्डुइनो और एसपी माइक्रोकंट्रोलर का उपयोग करके इन्हें एकीकृत किया। अंतिम दिन का सत्र एचवीआरडीसी इलेक्ट्रिक प्राइवेट लिमिटेड के सीईओ आकाश कुमार किरोड़ी ने लिया। उन्होंने इलेक्ट्रिक वाहनों में लॉट और रेट्रोफिटिंग की भूमिका पर जोर दिया। उन्होंने एक ईवी यूनिट का लाइव प्रदर्शन भी किया और अपनी कंपनी के डैशबोर्ड पर वास्तविक समय का डेटा दिखाया।

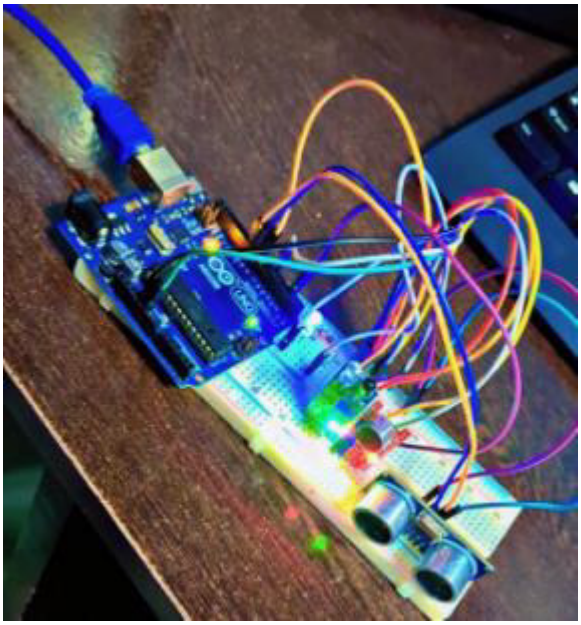
समापन समारोह में कंप्यूटर विज्ञान और इंजीनियरिंग विभाग के प्रमुख प्रोफेसर डॉ. मेहुल महर्षि, ने प्रतिभागियों को प्रमाण पत्र वितरित किए।

Event Photographs (Day Wise)

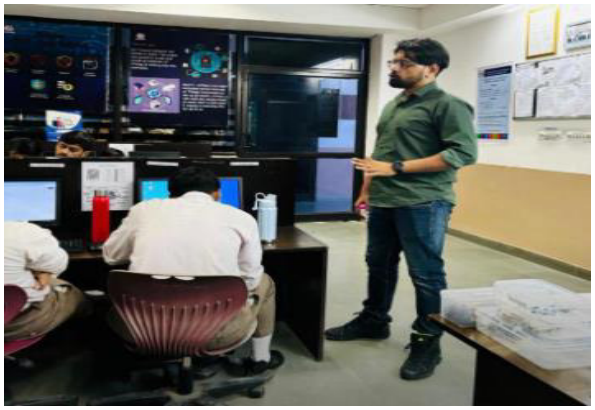
Day 1:

Day 2:

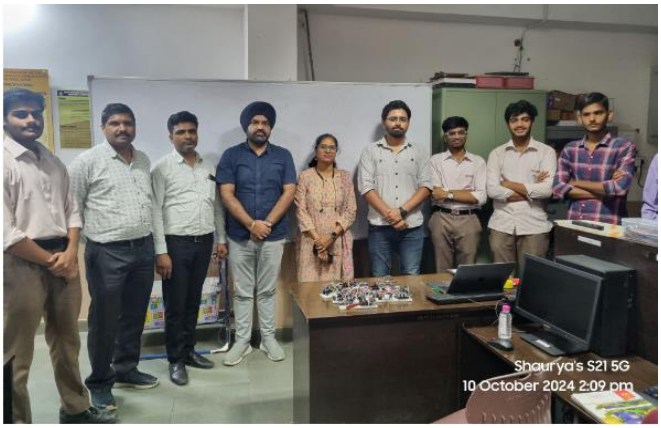




Day 3:

Day 4:



Day 5:


Valedictory Ceremony

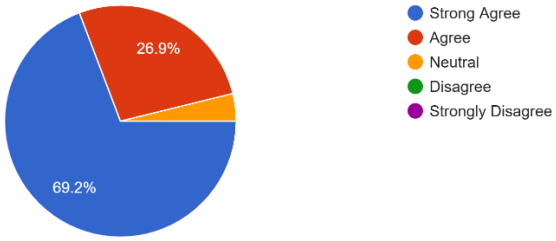
A one-weekstudent workshop on "Unlocking the power of IoT" came to an end on 11thOctober, 2024, with a Valedictory function. There were many participants during the event alongside the experts Mr. Akash Kumar Kirori and Mr. Harsh Tenguriya. The experts shared their views on the relevance and execution of this Workshop, also the students shared their experience during the complete workshop.

Dr.Mehul Mahrishi distributed certificates to the students with experts. Ms. Priyanka Sharma, Assistant Professor, Dept of CSE, SKIT gave vote of thanks at the end.

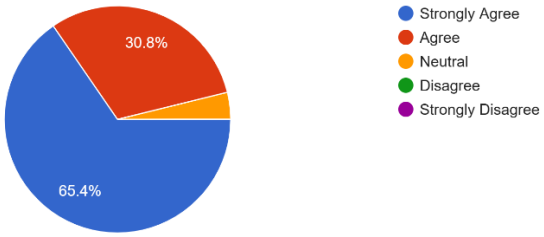
Feedback Analysis

Day1

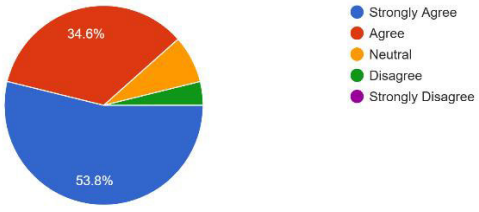
The objectives of the session were clearly defined:
26 responses



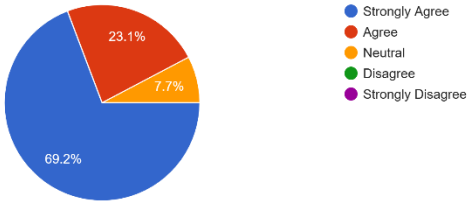
The topics covered were relevant to the workshop:
26 responses



The time allotted for the session was sufficient:
26 responses

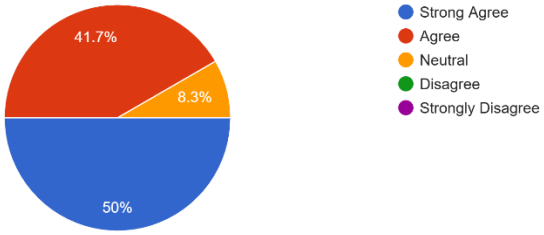


Experts were well prepared:
26 responses

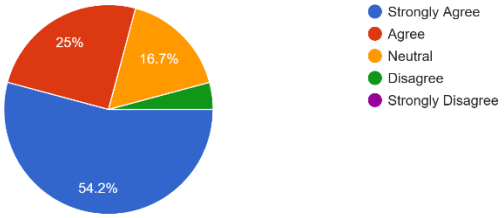


Day 2

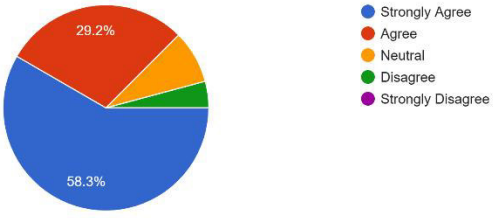
The objectives of the session were clearly defined:
24 responses



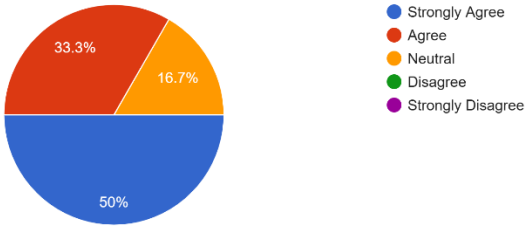
The topics covered were relevant to the workshop:
24 responses



Experts were well prepared:
24 responses

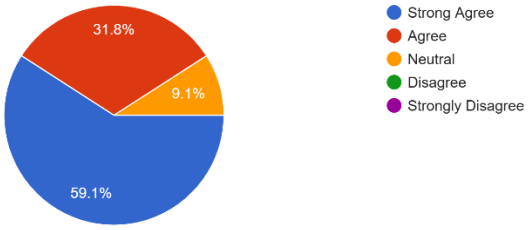


The time allotted for the session was sufficient:
24 responses

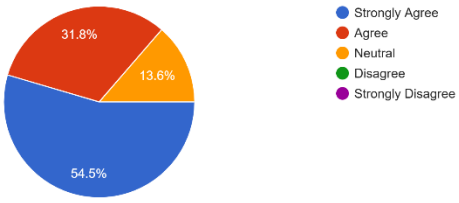


Day 3

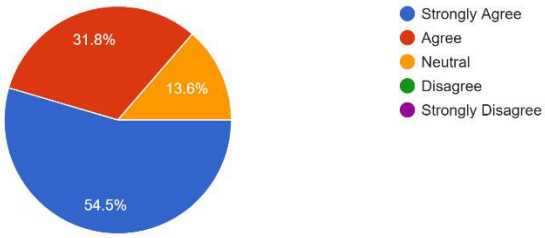
The objectives of the session were clearly defined:
22 responses



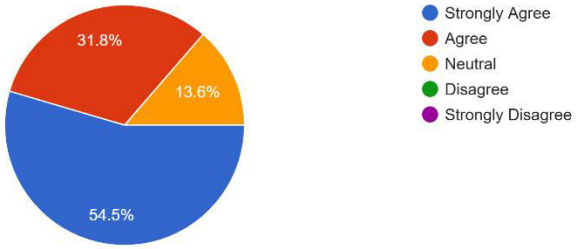
The topics covered were relevant to the workshop:
22 responses



Experts were well prepared:
22 responses

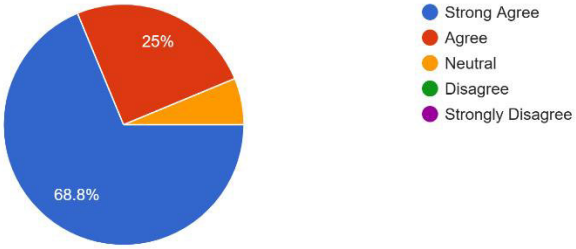


The time allotted for the session was sufficient:
22 responses

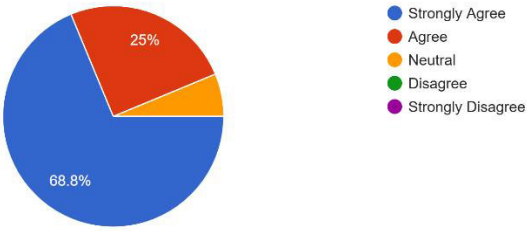


Day 4

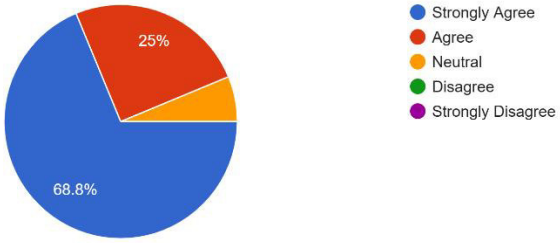
The objectives of the session were clearly defined:
16 responses



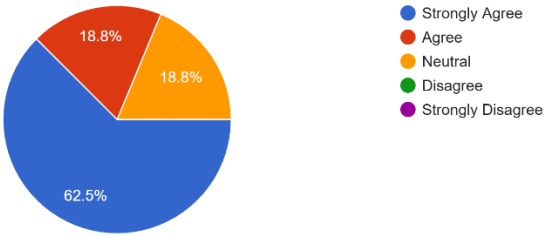
The topics covered were relevant to the workshop:
16 responses



Experts were well prepared:
16 responses

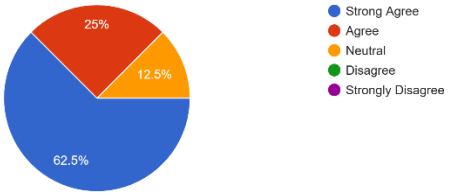


The time allotted for the session was sufficient:
16 responses

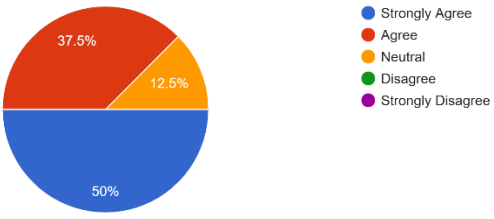


Day 5

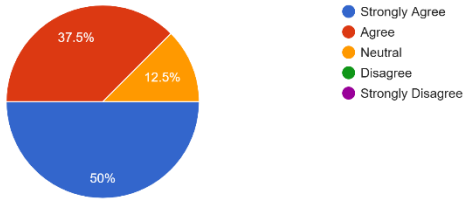
The objectives of the session were clearly defined:
8 responses



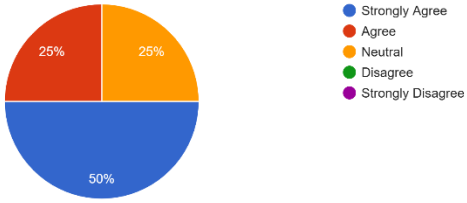
The topics covered were relevant to the workshop:
8 responses



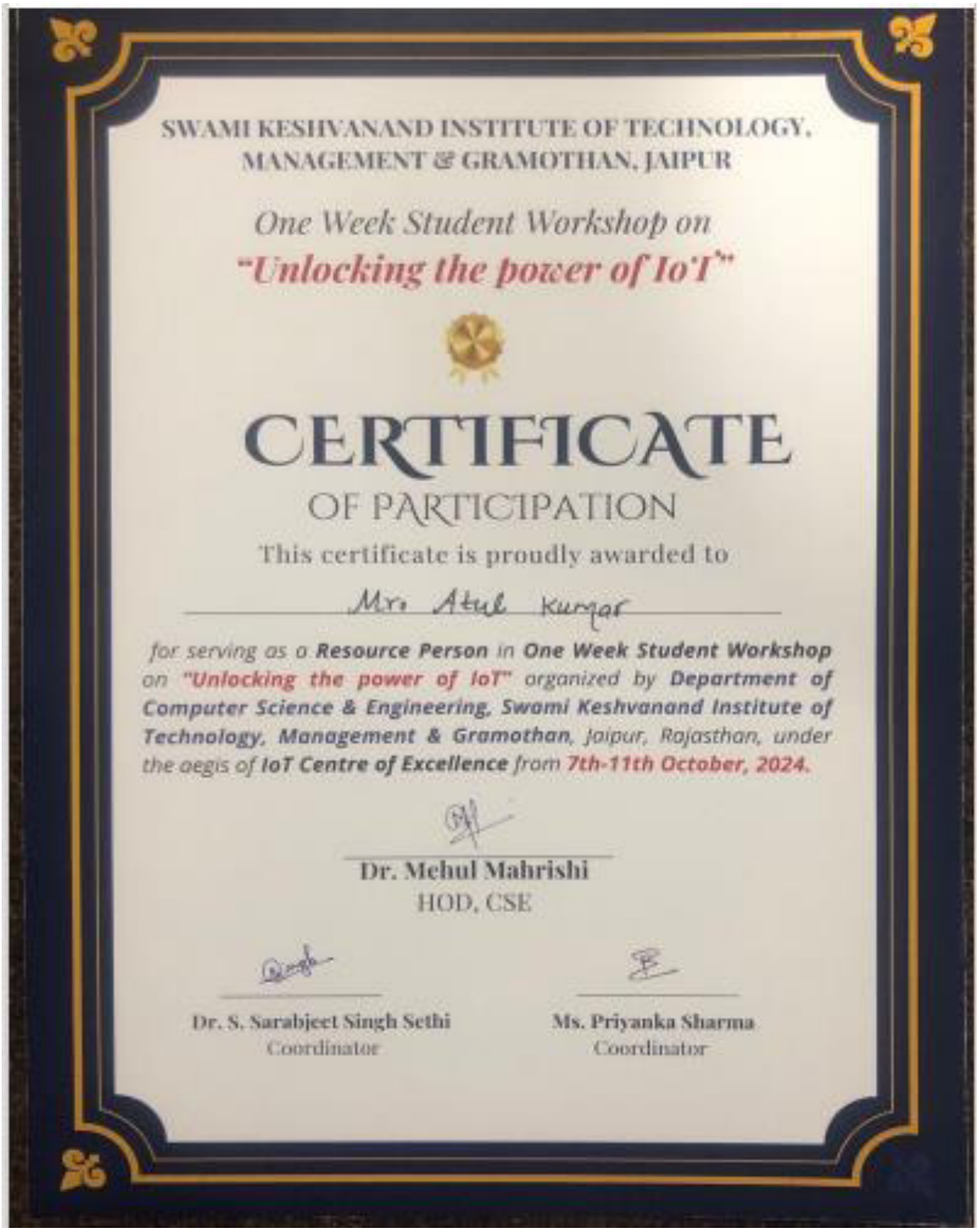
Experts were well prepared:
8 responses



The time allotted for the session was sufficient:
8 responses



Sample Copy of Expert's Certificate



SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,
MANAGEMENT & GRAMOTHAN, JAIPUR

One Week Student Workshop on

"Unlocking the power of IoT"

CERTIFICATE

OF PARTICIPATION

This certificate is proudly awarded to

Mr. Atul Kumar

for serving as a **Resource Person** in **One Week Student Workshop** on **"Unlocking the power of IoT"** organized by **Department of Computer Science & Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan**, Jaipur, Rajasthan, under the aegis of **IoT Centre of Excellence** from **7th-11th October, 2024.**

Dr. Mehul Mahrishi
HOD, CSE

Dr. S. Sarabjeet Singh Sethi
Coordinator

Ms. Priyanka Sharma
Coordinator

Attendance record of Students

Day1

Attendance Sheet for One Week Student Workshop on "Unlocking the power of IoT"

Date: 7/10/24 Venue: CL-2 Lab

S. No.	Name		Branch	Semester	Section	Contact No.	Signature (Session 1)	Signatur (Session
1	23ESKCY001	Aayush Sankhla	IoT	III	A	8441004482		
2	23ESKCY008	Aryan Singh	IoT	III	A	9799323913		
3	23ESKCY010	Atishay Jain	IoT	III	A	7733997636		
4	23ESKCY012	Chirag Sharma	IoT	III	A	9818417110		
5	23ESKCY016	Garvit Agarwal	IoT	III	A	8824505838		
6	23ESKCY019	Gautam Rajpurohit	IoT	III	A	6377242753		
7	23ESKCY026	Kushal Kumar	IoT	III	A	9462491955		
8	23ESKCY027	Lakshya jain	IoT	III	A	7597244224		
9	23ESKCY030	Mayank Rathore	IoT	III	A	7737104041		
10	23ESKCY031	Mohd Nasir Ahmad	IoT	III	A	9351783387		
11	23ESKCY033	Naval	IoT	III	A	8290488044		
12	23ESKCY035	Nemi Chand Sharma	IoT	III	A	9257690770		
13	23ESKCY036	Nishant Kumawat	IoT	III	A	9929291687		
14	23ESKCY038	Palak Soni	IoT	III	A	7597646465		
15	23ESKCY039	Prachi Bhardwaj	IoT	III	A	9024120097		
16	23ESKCY042	Priyanshu Joshi	IoT	III	A	8949091708		
17	23ESKCY045	Saloni Jain	IoT	III	A	8690845316		
18	23ESKCY046	Sanskriti Raj	IoT	III	A	6201381837		
19	23ESKCY047	Shaurya Pratap Singh Shekhawat	IoT	III	A	9521579010		
20	23ESKCY048	Shobhan Bhagwati	IoT	III	A	8000630842		
21	23ESKCY049	Somya roy	IoT	III	A	9829571129		
22	23ESKCY051	Tanay Sharma	IoT	III	A	8824437092		
23	23ESKCY052	Tanuj Gupta	IoT	III	A	9586250793		
24	23ESKCY053	Unnati Mangal	IoT	III	A	8949779884		
25	23ESKCY055	Vaibhav Dadhich	IoT	III	A	8764100991		
26	23ESKCY056	Vaibhav Gupta	IoT	III	A	9001312300		
27	23ESKCY057	Vijay Kumar Soni	IoT	III	A	8769476924		
28	23ESKCY060	Vishnu Chaudhary	IoT	III	A	9024589971		
29	23ESKCY061	Vivek vyas	IoT	III	A	6378485880		
30	23ESKCY062	Yash Bansal	IoT	III	A	9784511533		
31	23ESKCY063	yogendra singh shekhawat	IoT	III	A	8058459387		
32	23ESKCY301	Shaurya shah	IoT	III	A	6375880946		
33	23ESKCY023	Kripendra Singh	IoT	III	A	7878042824		
34	23ESKCY032	Nancy Jain	IoT	III	A	9024756521		
35	23ESKCY302	Mahansh Gaur	IoT	III	A	7073320270		

26) 23 ESKCS039 Manu Sharma CSE III
27) 23ESKCS187 Rishita Agrawal CSE II D
28) 23ESKCS828 Tanmay Uyan CSE III D
29) 23ESKEC085 Sumit kr. Dixit ECE III B
40) 23 ESKCS046 Bhuvneshwari CSE III A
41) 23ESKECO88 Utkarsh Jindal ECE III B

Day2

Attendance Sheet for One Week Student Workshop on "Unlocking the power of IoT"

Date: 8/10/24 Venue: CL-2 Lab

S. No.	Name		Branch	Semester	Section	Contact No.	Signature (Session 1)	Signatur (Session
1	23ESKCY001	Aayush Sankhla	IoT	III	A	8441004482		
2	23ESKCY008	Aryan Singh	IoT	III	A	9799323913		
3	23ESKCY010	Atishay Jain	IoT	III	A	7733997636		
4	23ESKCY012	Chirag Sharma	IoT	III	A	9818417110		
5	23ESKCY016	Garvit Agarwal	IoT	III	A	8824506838		
6	23ESKCY019	Gautam Rajpurohit	IoT	III	A	6377242753		
7	23ESKCY026	Kushal Kumar	IoT	III	A	9462491955		
8	23ESKCY027	Lakshya jain	IoT	III	A	7597244224		
9	23ESKCY030	Mayank Rathore	IoT	III	A	7737104041		
10	23ESKCY031	Mohd Nasir Ahmed	IoT	III	A	9351783387		
11	23ESKCY033	Naval	IoT	III	A	6350488044		
12	23ESKCY035	Nemi Chand Sharma	IoT	III	A	9257690770		
13	23ESKCY036	Nishant Kumawat	IoT	III	A	9929291687		
14	23ESKCY038	Palak Soni	IoT	III	A	7597646465		
15	23ESKCY039	Prachi Bhardwaj	IoT	III	A	9024120097		
16	23ESKCY042	Priyanshu Joshi	IoT	III	A	8949091708		
17	23ESKCY045	Saloni Jain	IoT	III	A	8690846316		
18	23ESKCY046	Sanskriti Raj	IoT	III	A	6201381837		
19	23ESKCY047	Shaurya Pratap Singh Shekhawat	IoT	III	A	9521579010		
20	23ESKCY048	Shobhan Bhagwati	IoT	III	A	8000630842		
21	23ESKCY049	Somya roy	IoT	III	A	9829571129		
22	23ESKCY051	Tanay Sharma	IoT	III	A	8824437092		
23	23ESKCY052	Tanuj Gupta	IoT	III	A	9588250793		
24	23ESKCY053	Unnati Mangal	IoT	III	A	8949779884		
25	23ESKCY055	Vaibhav Dadhich	IoT	III	A	8764100391		
26	23ESKCY056	Vaibhav Gupta	IoT	III	A	9001312300		
27	23ESKCY057	Vijay Kumar Soni	IoT	III	A	8769476924		
28	23ESKCY060	Vishnu Chaudhary	IoT	III	A	9024589971		
29	23ESKCY061	Vivek vyas	IoT	III	A	6376485880		
30	23ESKCY062	Yash Bansal	IoT	III	A	9784511533		
31	23ESKCY063	yogendra singh shekhawat	IoT	III	A	8058456087		
32	23ESKCY301	Shaurya shah	IoT	III	A	6375880946		
33	23ESKCY023	Kripendra Singh	IoT	III	A	7878042824		
34	23ESKCY032	Nancy Jain	IoT	III	A	9024756521		
35	23ESKCY302	Mahansh Gaur	IoT	III	A	7073320270		

Day3

Attendance Sheet for One Week Student Workshop on "Unlocking the power of IoT"

Date: 9/10/24 Venue: CL-2 Lab

S. No.	Name		Branch	Semester	Section	Contact No.	Signature (Session 1)	Signatur (Session
1	23ESKCY001	Aayush Sankhla	IoT	III	A	8441004482		
2	23ESKCY008	Aryan Singh	IoT	III	A	9799323913		
3	23ESKCY010	Atishay Jain	IoT	III	A	7733997636		
4	23ESKCY012	Chirag Sharma	IoT	III	A	9818417110		
5	23ESKCY016	Garvit Agarwal	IoT	III	A	8824505838		
6	23ESKCY019	Gautam Rajpurohit	IoT	III	A	6377242753		
7	23ESKCY026	Kushal Kumar	IoT	III	A	9462491955		
8	23ESKCY027	Lakshya jain	IoT	III	A	7597244224		
9	23ESKCY030	Mayank Rathore	IoT	III	A	7737104041		
10	23ESKCY031	Mohd Nasir Ahmed	IoT	III	A	9351783387		
11	23ESKCY033	Naval	IoT	III	A	6350488044		
12	23ESKCY035	Nemi Chand Sharma	IoT	III	A	9257690770		
13	23ESKCY036	Nishant Kumawat	IoT	III	A	9929291687		
14	23ESKCY038	Palak Soni	IoT	III	A	7597646465		
15	23ESKCY039	Prachi Bhardwaj	IoT	III	A	9024120097		
16	23ESKCY042	Priyanshu Joshi	IoT	III	A	8949091708		
17	23ESKCY045	Saloni Jain	IoT	III	A	8690846316		
18	23ESKCY046	Sanskriti Raj	IoT	III	A	6201381837		
19	23ESKCY047	Shaurya Pratap Singh Shekhawat	IoT	III	A	9521579010		
20	23ESKCY048	Shobhan Bhagwati	IoT	III	A	8000630842		
21	23ESKCY049	Somya roy	IoT	III	A	9829571129		
22	23ESKCY051	Tanay Sharma	IoT	III	A	8824437092		
23	23ESKCY052	Tanuj Gupta	IoT	III	A	9588250793		
24	23ESKCY053	Unnati Mangal	IoT	III	A	8949779884		
25	23ESKCY055	Vaibhav Dadhich	IoT	III	A	8764100391		
26	23ESKCY056	Vaibhav Gupta	IoT	III	A	9001312300		
27	23ESKCY057	Vijay Kumar Soni	IoT	III	A	8769476924		
28	23ESKCY060	Vishnu Chaudhary	IoT	III	A	9024589971		
29	23ESKCY061	Vivek vyas	IoT	III	A	6376485680		
30	23ESKCY062	Yash Bansal	IoT	III	A	9784511533		
31	23ESKCY063	yogendra singh shekhawat	IoT	III	A	8058456087		
32	23ESKCY301	Shaurya shah	IoT	III	A	6375880946		
33	23ESKCY023	Kripendra Singh	IoT	III	A	7878042624		
34	23ESKCY032	Nancy Jain	IoT	III	A	9024756521		
35	23ESKCY302	Mahansh Gaur	IoT	III	A	7073320270		

Day4

Attendance Sheet for One Week Student Workshop on "Unlocking the power of IoT"

Date: 10/10/24 Venue: CL-2 Lab

S. No.	Name		Branch	Semester	Section	Contact No.	Signature (Session 1)	Signatur (Session
1	23ESKCY001	Aayush Sankhla	IoT	III	A	8441004482		
2	23ESKCY008	Aryan Singh	IoT	III	A	9799323913		
3	23ESKCY010	Akshay Jain	IoT	III	A	7733997636		
4	23ESKCY012	Chirag Sharma	IoT	III	A	9818417110		
5	23ESKCY016	Garvit Agarwal	IoT	III	A	8824505838		
6	23ESKCY019	Gautam Rajpurohit	IoT	III	A	6377242753		
7	23ESKCY026	Kushal Kumar	IoT	III	A	9462491955		
8	23ESKCY027	Lakshya jain	IoT	III	A	7597244224		
9	23ESKCY030	Mayank Rathore	IoT	III	A	7737104041		
10	23ESKCY031	Mohd Nasir Ahmed	IoT	III	A	9351783387		
11	23ESKCY033	Naval	IoT	III	A	6350488044		
12	23ESKCY035	Nemi Chand Sharma	IoT	III	A	9257690770		
13	23ESKCY036	Nishant Kumawat	IoT	III	A	9929291687		
14	23ESKCY038	Palak Soni	IoT	III	A	7597646465		
15	23ESKCY039	Prachi Bhardwaj	IoT	III	A	9024120097		
16	23ESKCY042	Priyanshu Joshi	IoT	III	A	8949081708		
17	23ESKCY045	Saloni Jain	IoT	III	A	8690846316		
18	23ESKCY046	Sanskriti Raj	IoT	III	A	6201381837		
19	23ESKCY047	Shaurya Pratap Singh Shekhawat	IoT	III	A	9521579010		
20	23ESKCY048	Shobhan Bhagwati	IoT	III	A	8000630842		
21	23ESKCY049	Somya roy	IoT	III	A	9829571129		
22	23ESKCY051	Tanay Sharma	IoT	III	A	8824437092		
23	23ESKCY052	Tanuj Gupta	IoT	III	A	9588250793		
24	23ESKCY053	Unnati Mangal	IoT	III	A	8949779884		
25	23ESKCY055	Vaibhav Dadhich	IoT	III	A	8764100391		
26	23ESKCY056	Vaibhav Gupta	IoT	III	A	9001312300		
27	23ESKCY057	Vijay Kumar Soni	IoT	III	A	8769476924		
28	23ESKCY060	Vishnu Chaudhary	IoT	III	A	9024589971		
29	23ESKCY061	Vivek vyas	IoT	III	A	6376485880		
30	23ESKCY062	Yash Bansal	IoT	III	A	9784511533		
31	23ESKCY063	yogendra singh shekhawat	IoT	III	A	8058456087		
32	23ESKCY301	Shaurya shah	IoT	III	A	6375880946		
33	23ESKCY023	Kripendra Singh	IoT	III	A	7878042824		
34	23ESKCY032	Nancy Jain	IoT	III	A	9024756521		
35	23ESKCY302	Mahansh Gaur	IoT	III	A	7073320270		

Day5

Attendance Sheet for One Week Student Workshop on "Unlocking the power of IoT"

Date: 11/10/24 Venue: CL-2 Lab

S. No.	Name		Branch	Semester	Section	Contact No.	Signature (Session 1)	Signatur (Session
1	23ESKCY001	Aayush Sankhla	IoT	III	A	8441004482		
2	23ESKCY008	Aryan Singh	IoT	III	A	9799323913		
3	23ESKCY010	Atishay Jain	IoT	III	A	7733997636		
4	23ESKCY012	Chirag Sharma	IoT	III	A	9018417110		
5	23ESKCY016	Garvit Agarwal	IoT	III	A	8824505838		
6	23ESKCY019	Gautam Rajpurohit	IoT	III	A	6377242753		
7	23ESKCY026	Kushal Kumar	IoT	III	A	9462491955	Kushal	
8	23ESKCY027	Lakshya jain	IoT	III	A	7597244224		
9	23ESKCY030	Mayank Rathore	IoT	III	A	7737104041		
10	23ESKCY031	Mohd Nasir Ahmed	IoT	III	A	9351783387		
11	23ESKCY033	Naval	IoT	III	A	6350488044		
12	23ESKCY035	Nemi Chand Sharma	IoT	III	A	9257690770		
13	23ESKCY036	Nishant Kumawat	IoT	III	A	9929291687		
14	23ESKCY038	Palak Soni	IoT	III	A	7597646465		
15	23ESKCY039	Prachi Bhardwaj	IoT	III	A	9024120097		
16	23ESKCY042	Priyanshu Joshi	IoT	III	A	8949091706		
17	23ESKCY045	Saloni Jain	IoT	III	A	8690846316		
18	23ESKCY046	Sanskriti Raj	IoT	III	A	6201381637		
19	23ESKCY047	Shaurya Pratap Singh Shekhawat	IoT	III	A	9521579010		
20	23ESKCY048	Shobhan Bhagwati	IoT	III	A	8optional30842		
21	23ESKCY049	Somya roy	IoT	III	A	9829571129		
22	23ESKCY051	Tanay Sharma	IoT	III	A	8824437092		
23	23ESKCY052	Tanuj Gupta	IoT	III	A	9588250793		
24	23ESKCY053	Unnati Mangal	IoT	III	A	8949779884		
25	23ESKCY055	Vaibhav Dadhich	IoT	III	A	8764100391		
26	23ESKCY056	Vaibhav Gupta	IoT	III	A	9001312300		
27	23ESKCY057	Vijay Kumar Soni	IoT	III	A	8769476924		
28	23ESKCY060	Vishnu Chaudhary	IoT	III	A	9024589971		
29	23ESKCY061	Vivek vyas	IoT	III	A	6376485880		
30	23ESKCY062	Yash Bansal	IoT	III	A	9784511533		
31	23ESKCY063	yogendra singh shekhawat	IoT	III	A	8058456087		
32	23ESKCY301	Shaurya shah	IoT	III	A	6375880946		
33	23ESKCY023	Kripendra Singh	IoT	III	A	7878042824		
34	23ESKCY032	Nancy Jain	IoT	III	A	9024756521		
35	23ESKCY302	Mahansh Gaur	IoT	III	A	7073320270		