



SRHU/HSST/Int./2024 -144

Dated: 12<sup>th</sup> September 2024

## Circular

Dear Students,

Himalayan School of Science & Technology is planning to celebrate Engineers' Day on 16th September 2024. Although Engineers' Day is typically celebrated on 15th September, this year the date falls on a Sunday, so we are planning to celebrate it on the following day 16th September 2024 Monday.

We are planning to organize the following events for the students on this day:

1. **Technical Poster Presentation** - Coordinator: Mr. Gaurav Aggarwal
2. **Prompt Coding Competition** - Coordinator: Mr. Gaurav Sharma
3. **Drone Installation and Display** - Expert from outside
4. **Workshop on Internet of Things (IoT)** - Coordinator: Dr. Vibhor Sharma
5. **Technical Presentation** - Coordinator: Dr. Anupama Mishra
6. **Innovative Ideas Pitching** - Coordinator: Dr. Deepak Srivastava

**Mr. Gaurav Sharma** will be the overall coordinator for Engineers' Day. If you have any questions or need further information, please feel free to reach out to him.

We encourage all students to participate actively and take this opportunity to showcase your skills, learn from experts, and explore the latest in engineering and technology.

*Pramod Kumar*  
*12/09/2024*  
**Dr. Pramod Kumar**  
Principal  
Himalayan School of Science & Technology

Principal  
Himalayan School of Science & Technology  
Swami Rama Himalayan University  
Dehradun



## Report

**Department:** Computer Science and Engineering

**Activity Name:** Workshop on Internet of Things

**Date & Time:** 16<sup>th</sup> Sep. 2024 (11:00 AM to 4:30 PM)

**No. of Participants:** 23

**Venue:** Computer Lab-3

On the occasion of **Engineer's Day**, 16th September 2024, the **Himalayan School of Science and Technology (HSST)** organized a workshop on the **Internet of Things (IoT)**. The workshop was conducted by **Dr. Vibhor Sharma**, Assistant Professor in the **CSE Department**, and was aimed at providing students with both theoretical and practical knowledge on IoT, starting from the basics to more advanced applications.

### Event Overview:

- **Introduction and Opening Session:**

The event began with an introduction to the concept of IoT, explaining its relevance in today's interconnected world. Dr. Vibhor Sharma emphasized how IoT is becoming integral to various industries, enhancing automation, and enabling real-time monitoring and data collection.

- **Hands-on Learning with IoT Kits:**

Students were provided with IoT kits to gain practical experience. The kits contained microcontrollers, sensors, and other necessary components. Participants began with foundational exercises such as **LED Blinking** to understand how devices could be controlled using basic IoT programming.

- **Working with Sensors:**

As the workshop progressed, students worked with a variety of sensors to explore more advanced IoT concepts:

- **DHT11 Sensor:** Used for measuring temperature and humidity.
- **Ultrasonic Sensor:** Implemented to detect distance and monitor surroundings.



- **Soil Moisture Sensor:** Used for measuring soil moisture levels, which is highly applicable in agricultural IoT systems.

The participants learned how to collect and monitor sensor data both locally (on devices) and globally (by sending data to the cloud).

- **Cloud Integration:**

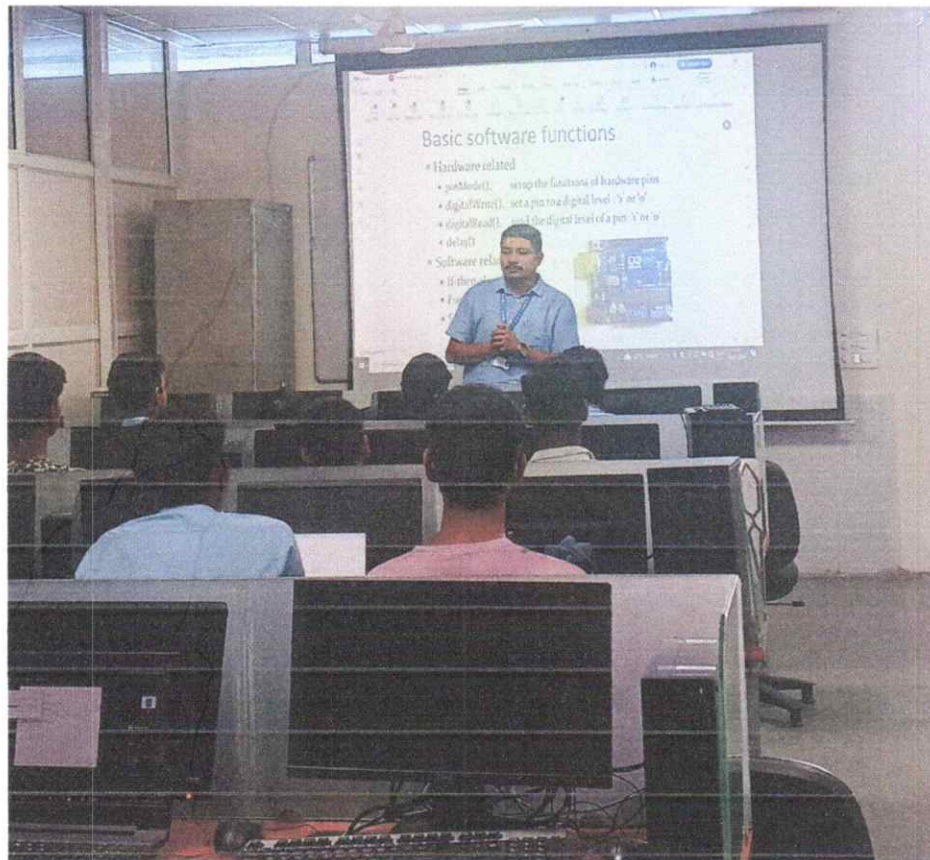
An important part of the workshop involved sending real-time data from sensors to cloud platforms. Students were guided on how to set up cloud-based systems to monitor the readings received from the various sensors. This exercise demonstrated how IoT can be used to remotely control devices and monitor environments, which is critical for smart cities, smart agriculture, and other IoT-driven applications.

### **Conclusion:**

The workshop was a comprehensive introduction to the Internet of Things, covering both theoretical aspects and practical applications. By the end of the session, students had a clear understanding of IoT fundamentals and hands-on experience with various sensors and cloud-based data monitoring. The event successfully enhanced the technical skills of the participants and prepared them for further exploration in the rapidly expanding field of IoT.



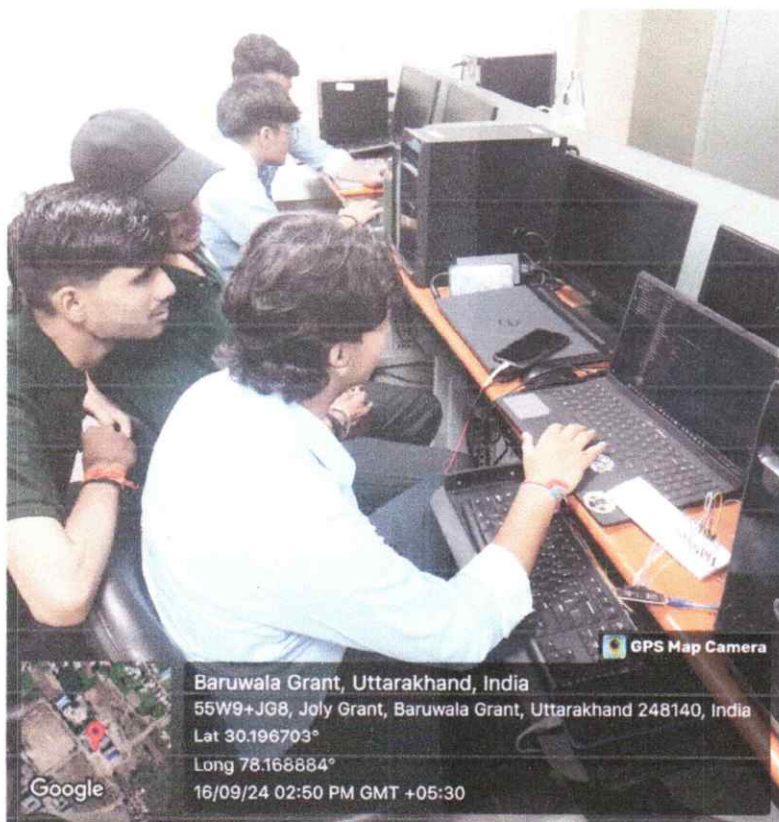
## Some Glimpse of Activity



**Presentation about Theoretical Concepts**



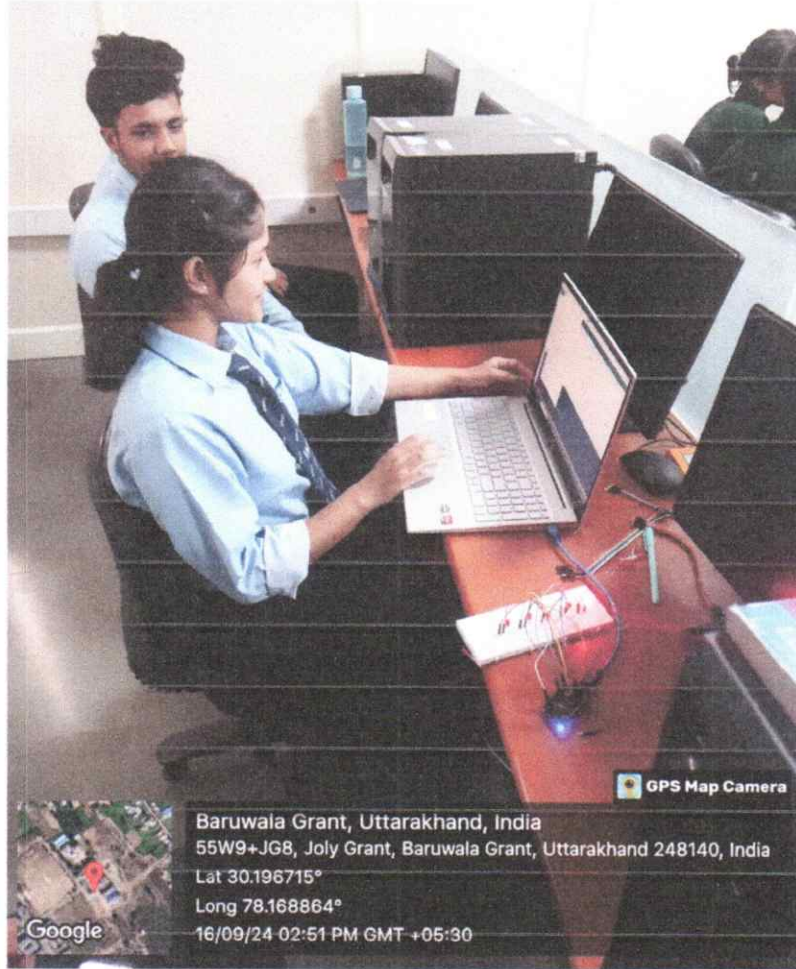
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स्वामी राम हिमालयन विश्वविद्यालय की एक शैक्षणिक इकाई  
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**Practical Implementation-1**



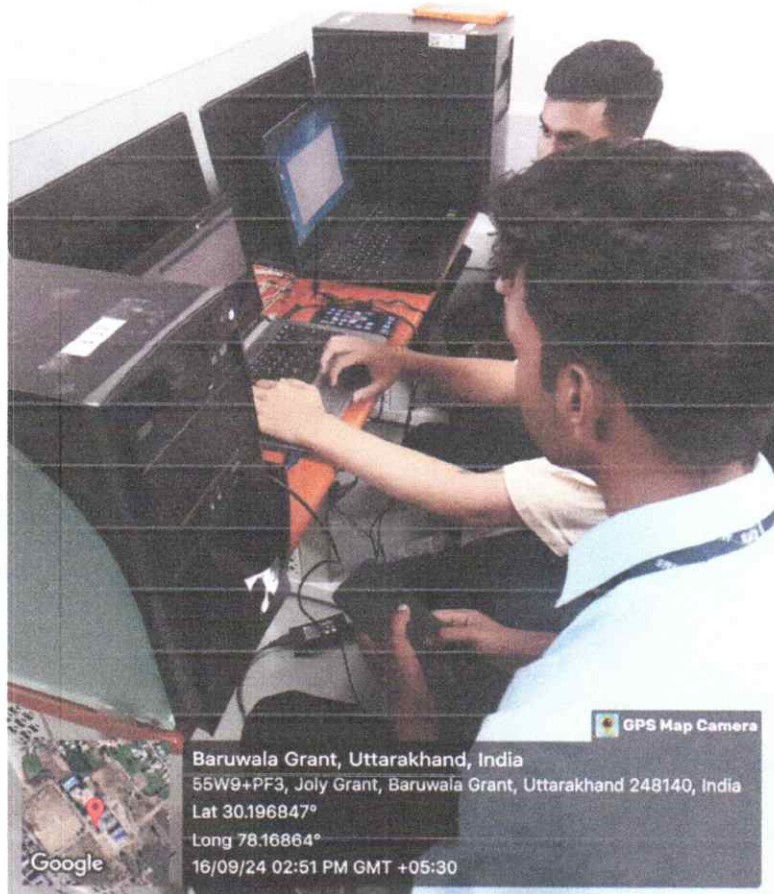
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### Practical Implementation-2



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**Practical Implementation-3**



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## Attendance

### Swami Rama Himalayan University Himalayan School of Science and Technology Workshop on Internet of Things Attendance Sheet

Date:

List of Participants					
S.No.	Student Name	Registration Number	Program	Year	Signature
1	Anurag Kothiyal	DD241104301035	BCA	1st	AB
2	Priyanshi rawat	DD241104301125	BCA	1st	AB
3	Raisha Gusain	DD241104301135	BCA	1st	AB
4	Ambika	DD241104301141	BCA	1st	AB
5	Shivansh Lakhera	DD241104301180	BCA	1st	AB
6	Shubham Panwar	DD241104301183	BCA	1st	AB
7	Manu Pathak	DD231104301066	BCA	2nd	Manu
8	Ayush Silswal	DD231104301087	BCA	2nd	Ayush
9	Arpit kandari	DD231104301090	BCA	2nd	AB
10	Abhishek payal	DD231104301095	BCA	2nd	AB
11	Abhishek payal	DD231104301095	BCA	2nd	AB
12	Reena	DD231104301096	BCA	2nd	AB
13	Prerna negi	DD231104301097	BCA	2nd	Prerna
14	Rupesh yadav	DD231104301104	BCA	2nd	Rupesh
15	Anuj bisht	DD231104301106	BCA	2nd	Anuj
16	Arpit Rawat	DD231104301107	BCA	2nd	Arpit Rawat
17	Aryan rawat	DD231104301108	BCA	2nd	Aryan
18	Lokesh Jaggi	DD231104301110	BCA	2nd	Lokesh
19	Vishal Kumar Singh	DD231104301111	BCA	2nd	Vishal
20	Sunanda	DD231104301112	BCA	2nd	AB
21	Vaibhavi pal	DD231104301117	BCA	2nd	Vaibhavi
22	Abhay Singh	DD231104301119	BCA	2nd	Abhay
23	Adiba Khurshid	DD231104301159	BCA	2nd	Adiba
24	Sanjay singh chauhan	DD22111301039	BCA	3rd	Sanjay

स्वामी राम नगर, जौली ग्रांट, देहरादून (उत्तराखंड) 248016

Swami Ram Nagar, Jolly Grant, Dehradun (Uttarakhand) 248016

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25	Pragya mishra	DD22111301056	BCA	3rd	Pragya
26	Sumanyu Bhatt	DD241104308010	B.Tech.	1st	Sumanyu
27	Ashish gond	DD241104303009	B.Tech.	1st	Ashish
28	Priyanshu Dimri	DD241104303020	B.Tech.	1st	Priyanshu
29	Payal	DD241104307013	B.Tech.	1st	Payal
30	Payal saini	DD241104307014	B.Tech.	1st	AB
31	Pratham Sharma	DD241104307015	B.Tech.	1st	Pratham
32	Lavish Upadhyay	DD241104308004	B.Tech.	1st	Lavish
33	Shubham Gangari	DD231104303021	B.Tech.	2nd	AB
34	Vanshika Mahant	DD231104307001	B.Tech.	2nd	AB
35	Gaurav Singh	DD231104307014	B.Tech.	2nd	Gaurav
36	Shivansh Nautiyal	DD22111308003	B.Tech.	3rd	AB
37	Naval Bhatt	DD241104310007	B.Sc (Hons) in Data Science	1st	Naval
38	Abhinay prajapati	DD231104310008	B.Sc (Hons) in Data Science	2nd	Abhinay

  
Dr. Vibhor Sharma

Activity Coordinator

Himalayan School of Science and Technology

  
Dr. Pramod Kumar

Principal

Himalayan School of Science and Technology

Principal  
Himalayan School of Science & Technology  
Swami Rama Himalayan University  
Dehradun