



Tirumala Tirupati Devasthanams

శ్రీ వేంకటేశ్వర కళాశాల

**Sri Venkateswara College**

(University of Delhi)

NAAC Grade A+

**SRI VENKATESWARA COLLEGE  
(UNIVERSITY OF DELHI)**

**EVENT REPORT**

<b>NAME OF THE EVENT:</b> <b>Just IoTThings - Training Program on IoT</b>			
<b>DATE</b>	<b>DEPARTMENT</b>	<b>COMMITTEE/SOCIETY</b>	<b>COORDINATORS' NAME</b>
20/10/2023 & 21/10/2023	ELECTRONICS	ELECTRONICS	Dr Rakhi Narang
<b>TIME</b>	<b>VENUE</b>	<b>NUMBER OF PARTICIPANTS</b>	<b>NATURE:</b>
01:00-04:00 PM	ICT Lab	Day 1: 44 Students, 9 Faculty Members Day 2: 25 Students, 9 Faculty Members	Indoor, Offline
<b>FINANCIAL SUPPORT/ASSISTANCE (if any):</b>	IEEE EDS Delhi Chapter		

**BRIEF INFORMATION ABOUT THE ACTIVITY**

<b>TOPIC/SUBJECT OF THE ACTIVITY</b>	<b>Workshop on Internet of Things (IoT) Just IoTThings - Training Program on IoT</b>
<b>OBJECTIVES</b>	<ol style="list-style-type: none"><li>1. Introducing participants to the Internet of Things (IoT) technology.</li><li>2. To provide a comprehensive understanding of Arduino, from basic to advanced levels.</li><li>3. To provide practical experience by conducting hands-on experiments using Arduino kits.</li><li>4. To inspire participants to explore the field of IoT and create their own solutions.</li></ol>
<b>METHODOLOGY</b>	<ol style="list-style-type: none"><li>1. The workshop was spread over two days and was divided into several sessions.</li><li>2. Presentations were used to introduce participants to the fundamentals of IoT.</li><li>3. Participants were provided with Arduino kits and allotted into groups of 3 to promote collaboration while building projects.</li><li>4. Volunteers were active to constantly guide the participants in case of any doubts or difficulties.</li><li>5. Advance level projects made by the volunteers were displayed and explained to help the participants visualise the scope of IoT.</li></ol>

<b>INVITED SPEAKERS WITH AFFLIATION DETAILS (IF ANY)</b>	None
<b>OUTCOMES</b>	<ol style="list-style-type: none"> <li>1. Participants gained a solid understanding of IoT fundamentals and Arduino programming.</li> <li>2. Participants gained confidence in programming Arduino boards and learned how to integrate sensors effectively.</li> <li>3. Group projects encouraged teamwork and problem-solving skills.</li> <li>4. The exhibition demonstrated real-world applications of IoT, providing participants with insights into the potential applications of IoT and Arduino. It inspired the participants to explore the field further.</li> </ol>

**PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):**

1 Notice & Letters	2 Number of Participants & Name of participants ✓	3 Video clip	4 Photos ✓	5 Feedback Form & analysis ✓
6 News clip with details	7 Sample Copy of the Certificate	8 Posters/ Invites ✓	9 Event report Attested by Event Coordinator & IQAC Coordinator	10 Any other document

IQAC Document No: IQAC/SVC/2023-2024/ELECTR/02	Criterion No: II, III, V
Departmental file no: ELECTRONICS/2023-2024/ELECTR.SOC/02	IQAC file No: SVC/2023-24

<b>NAME OF TEACHER &amp; SIGNATURE</b>	<b>NAME OF HEAD/ COMMITTEE INCHARGE &amp; SIGNATURE</b>	<b>IQAC COORDINATOR (SEAL &amp; SIGNATURE)</b>
Dr. Rakhi Narang 	Dr Neeru Kumar 	

## For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

## SUMMARY

### Day 1

The first day focused on introducing the fundamentals of IoT, explaining its importance, applications, and potential impact on various industries. It was followed by a basic introduction of Arduino, the popular open-source platform used for the development of IoT sensors and devices. Its components, software, and programming language were also explained. The participants were taken through the difference between analogue and digital, taught about the meaning and application of microprocessors, and about the pins, sensors, actuators and various protocols related to Arduino.

Then the experiments were conducted, beginning with ‘Blinking of LED’. First, the participants were taken through the circuit and code of the particular experiment. Then they were asked to form teams and try the building the project on their own in hands-on session. The student volunteers guided the participants through the entire process and helped them troubleshoot any issues. Similarly, the second experiment ‘Passive Infrared (PIR) Motion Sensor’ was conducted.

### Day 2

A quick revision of Day 1 was held. ‘Light Dependent Resistor (LDR) Sensor’ and ‘Water Level Sensor’, the third and fourth experiments respectively were performed. It was done in a similar fashion starting with an explanation by the volunteers and the participants trying it on their own in groups.

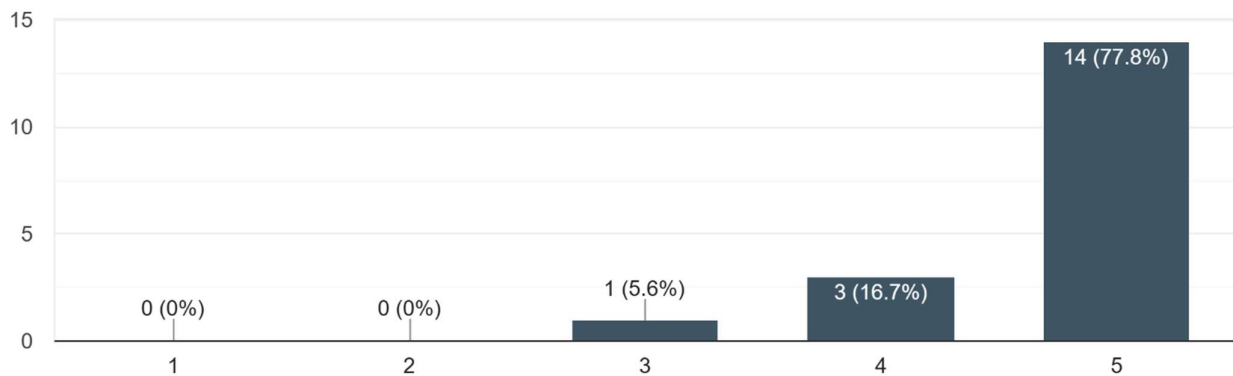
After completing the last 2 experiments, the exhibition was started. The student volunteers displayed 3 of their pre-made advance-level projects and explained them in great detail. The projects were- Rechargeable Digital Voltmeter, High Frequency Function Generator, and Automatic Plant Watering System. These projects served as a source of inspiration for the participants by demonstrating some real-world application of IoT.

The workshop concluded with a vote of thanks. Overall, it was a great success. It provided participants with a comprehensive understanding of IoT fundamentals and Arduino programming, supplemented by practical experience through hands-on sessions. It was an excellent opportunity for the participants to learn about one of the most emerging and exciting fields of technology and inspired them to explore their creativity and innovation using IoT and Arduino.

## FEEDBACK

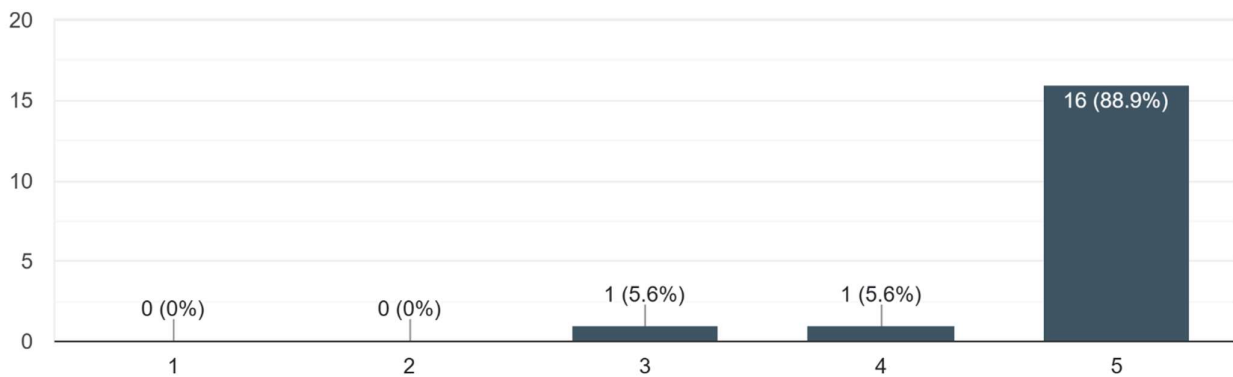
How would you like to rate your experience of Day 1?

18 responses



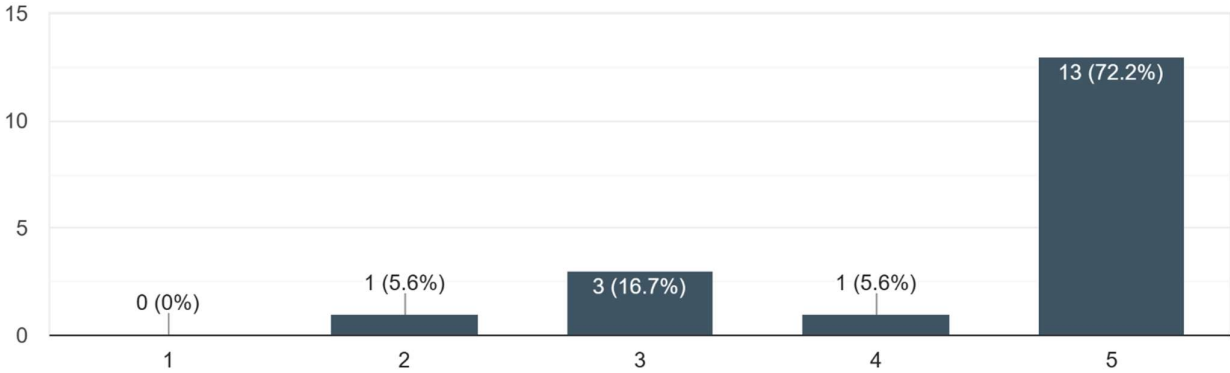
How would you rate your Hand On experience of Day 1?

18 responses



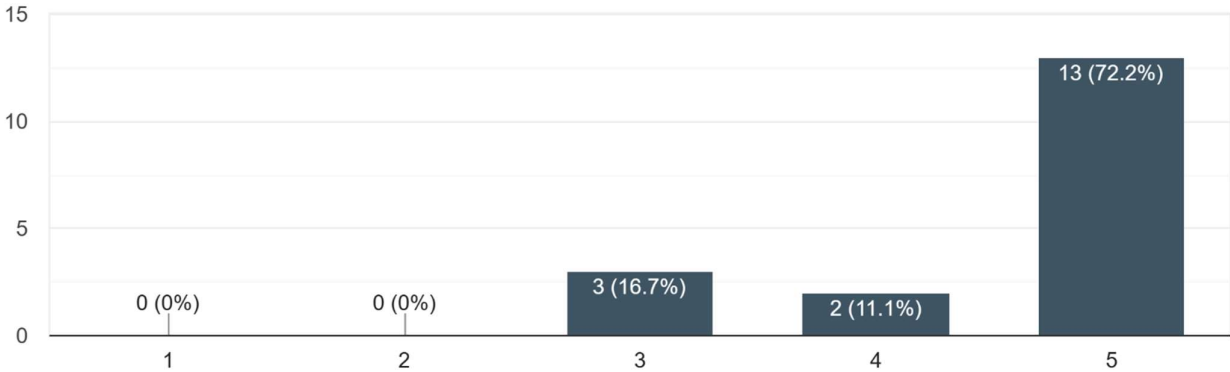
### How would you like to rate your experience on Day 2?

18 responses



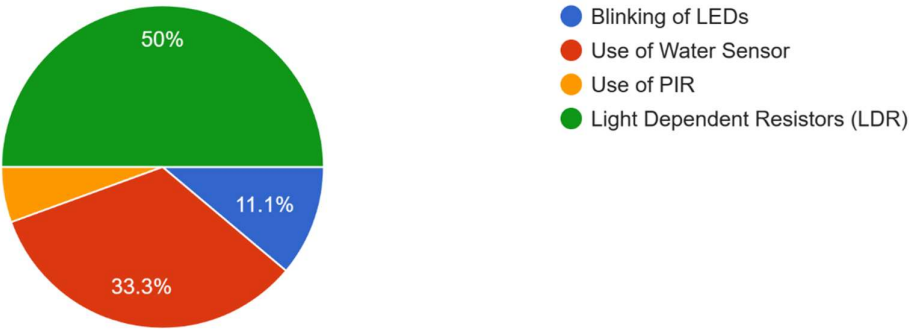
### How would you rate your Hands On experience of Day 2?

18 responses



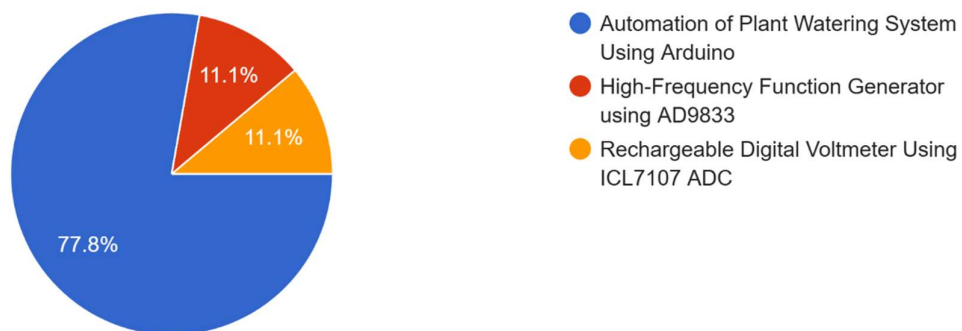
### Which experiment did you like the most?

18 responses



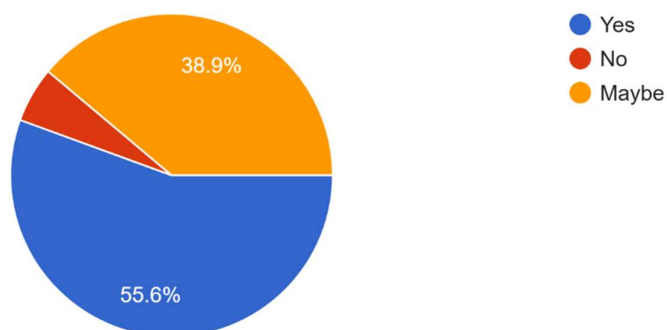
### Which project experience did you like the most?

18 responses



### Would you like to participate in the Competition of the same? (Tentative Theme: Diwali Decoration Using IoT)

18 responses



The workshop received extremely favourable reviews from the participants. They appreciated the interactive sessions, clear explanations, and patient guidance from volunteers. Many participants were even interested in a competition for IoT based on the teachings from this workshop! Most participants requested additional sessions on specific topics related to electronics and technology.

The positive feedback is a testament to the effectiveness of the workshop.



# PROOFS

**DEPARTMENT OF ELECTRONICS**  
SRI VENKATESWARA COLLEGE  
(UNIVERSITY OF DELHI)  
Event is sponsored by  
IEEE EDS Delhi Chapter



# JUST 10 THINGS

## DAY 1

- Introduction TO ARDUINO
- Hands-on Experience
- Working through Sensors and Devices

## DAY 2

- Advanced Arduino
- Hands-on Experience
- Exhibition of Projects

20-21 October 2023

Time 01:00 PM to 04:00 PM

Venue ICT Lab



Register Now

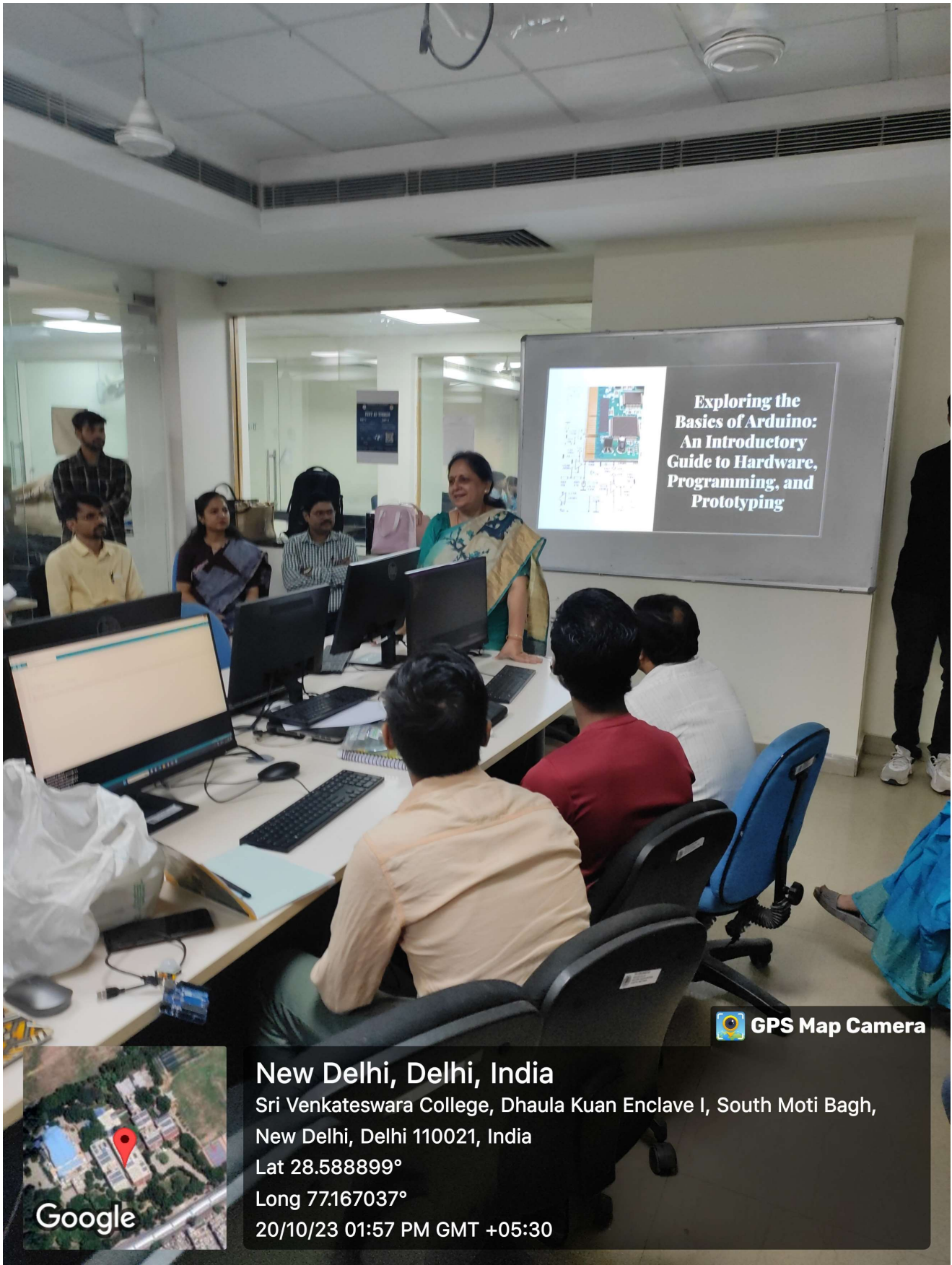
For Further Queries Contact:  
Manish Pathak - 76782 93549  
Virender Sagar - 8851580289

Organising Committee

Prof Lalita Josyula  
Dr Sunita Jain  
Dr Hina Yadav  
Dr Rahul

Dr Nutan Joshi  
Dr Hari Singh  
Dr T.R Kaviti

Principal - Prof. K. Chandramani Singh  
Teacher-in-Charge - Dr Neeru Kumar  
Coordinator - Dr Rakhi Narang



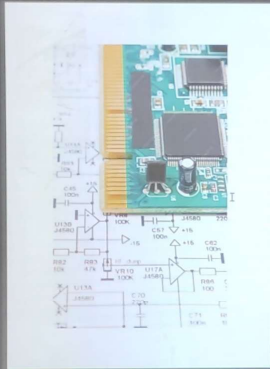
**Exploring the Basics of Arduino: An Introductory Guide to Hardware, Programming, and Prototyping**

GPS Map Camera

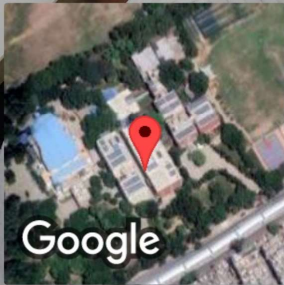


**New Delhi, Delhi, India**  
Sri Venkateswara College, Dhaula Kuan Enclave I, South Moti Bagh,  
New Delhi, Delhi 110021, India  
Lat 28.588899°  
Long 77.167037°  
20/10/23 01:57 PM GMT +05:30





## Exploring the Basics of Arduino: An Introductory Guide to Hardware, Programming, and Prototyping



**New Delhi, Delhi, India**

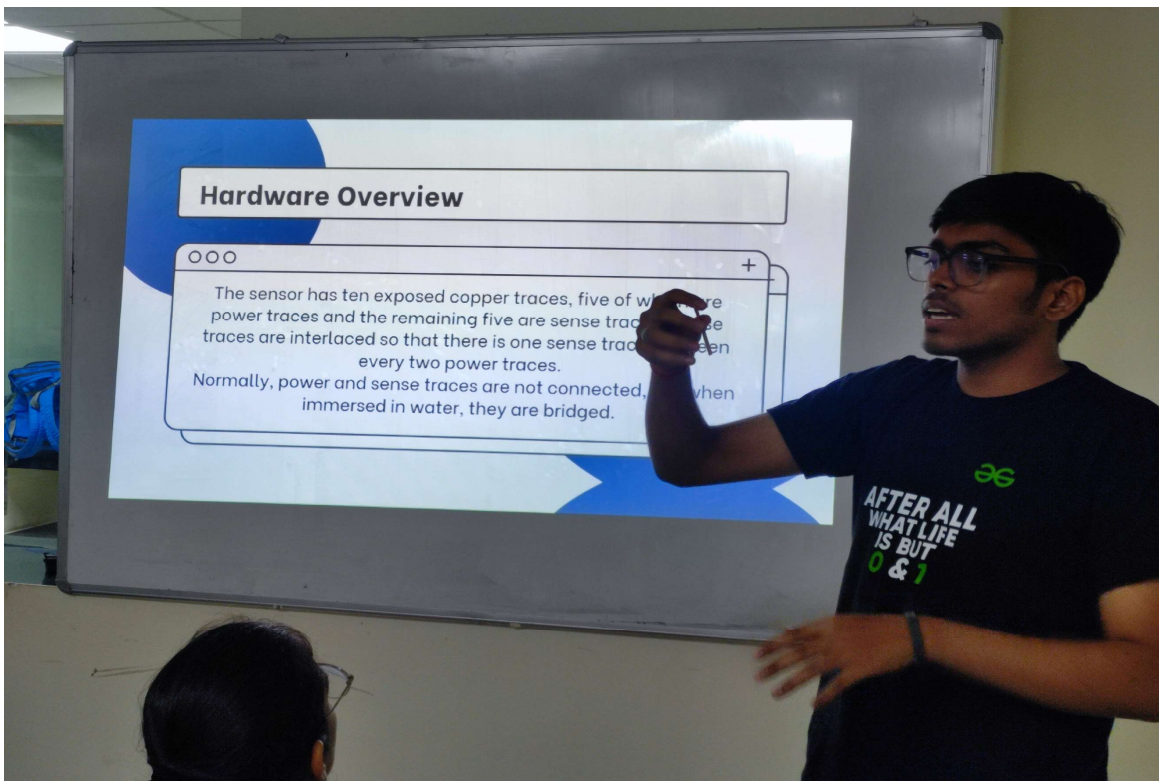
Sri Venkateswara College, Dhaula Kuan Enclave I, South Moti Bagh,  
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Lat 28.588899°

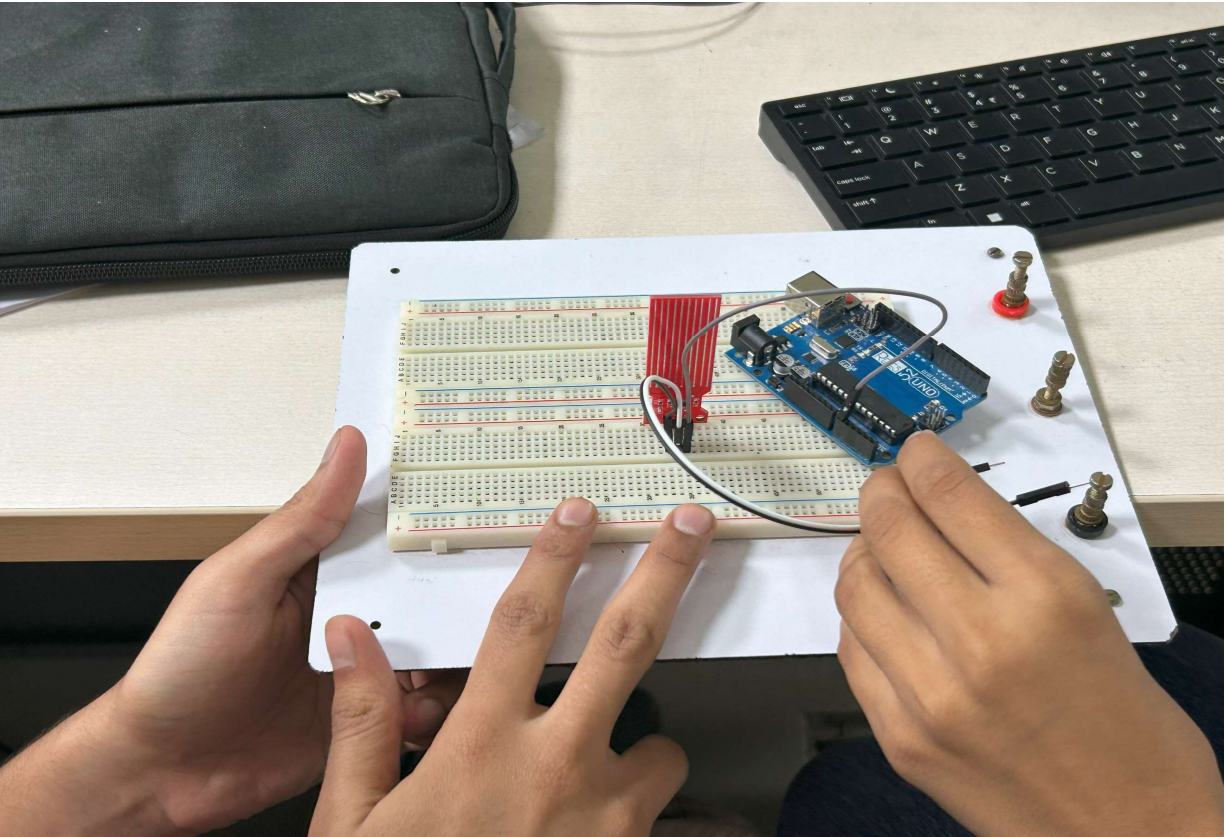
Long 77.167037°

20/10/23 01:58 PM GMT +05:30

 **GPS Map Camera**

















## Attendance:

Date :- 20/10/23

Time :- 01:00 PM

Venue :- Internet Resource LAB

NAME	COURSES / YEAR	Roll No	Sign.
1) Nitesh	1 <sup>st</sup> Electronics	1623062	<u>Nitesh</u>
2) Kislay	BSc (H) Electronics III yr.	1621021	<u>Kislay</u>
3) Rohit	BSc (H) Electronics III yr.	1621033	<u>Rohit</u>
4) Srijan	B.Sc (H) Electronics II yr	1622026	<u>Srijan</u>
5) Abhishek	BSc (H) electronics I year	1623043	<u>Abhishek</u>
6) Vartika	BSC(H) Electronics I year	1623020	<u>Vartika</u>
7) Sana	BSc (H) Electronics I year	1623016	<u>Sana</u>
8) Kuldeep	B.Sc (H) Electronics I year	1623038	<u>Kuldeep</u>
9) Kunal Gupta	BSC (H) electronics I year	1623001	<u>Kunal Gupta</u>
10) Kanali Kumari	BA (H) Economics	0523048	<u>Kanali</u>
11) Aman Mishra	B.Sc Electronics	1623035	<u>Aman Mishra</u>
12) Aman Chaudhary	B.Sc Electronics	1623015	<u>Aman Chaudhary</u>
13) Samuel	BSc Electronics	1623010	<u>Samuel</u>
14) Himanshu	B.Sc. Electronics II <sup>nd</sup> year	1622036	<u>Himanshu</u>
15) Piyush Jha	B.Sc Electronics I <sup>st</sup> year	1623048	<u>Piyush Jha</u>
16. Fatima Ansari	BSc(H) Biological Science I <sup>st</sup> year	1323027	<u>Fatima Ansari</u>
17. Pradeep Kumar Sharma	BSc(H) Electronics. I <sup>st</sup> year.	1623032	<u>Pradeep Kumar Sharma</u>
18. Uttam Prakash	BA(H) ECONOMICS 2nd year	0522038	<u>Uttam Prakash</u>
19. Jayant Issar	BSc (H) Electronics I <sup>st</sup> year	1623072	<u>Jayant Issar</u>
20. Amit	BSc (H) Electronics I <sup>st</sup> year	1623005	<u>Amit</u>
21. Aman Prasad	BSC (H) Electronics I <sup>st</sup> year	1623025	<u>Aman</u>

Name	Course & YEAR	Roll No	Signature
22. Mihul Tulsare	Electronics - II	1622003	Mihul
23. Ansh	Electronics - II	1622056	Ansh
24. Ajay Kumbhari	Electronics - II	1622001	Ajay
25. Kantik	Electronics - II	1622021	Kantik
26. Rishabh	Electronics - I	1623008	Rishabh
27. Md Asfak	BSc Life Science - I	1123083	Md Asfak
28. Azeem	BSc (H) Electronics - I	1623041	Azeem
29. Akshay	BSc (H) Statistics	1923043	Akshay
30. Saurabh Kumar Pandey	BSc (H) Life Science	1123094	Saurabh
31. Sumit Kumar Sinha	BSc (H) Electronics	1622049	Sumit
32. Mohit Bagadi	B.Sc (H) Electronics	1621025	Mohit
33. Utkarsh Singh	B.Sc (H) Electronics	1622027	Utkarsh
34. Vijender Sagar	B.Sc (H) Electronics	1621095	Vijender Sagar
35. Ancha	B.Sc (H) Physics	1822022	Ancha
36. Manish Sancha	BSc (H) Physics	1822004	Manish
37. Deepshikha Singh	BSc (H) Physics	1822010	Deepshikha
38. Ansh Negi	BSc (H) Physics	1822015	Ansh
39. Yogesh	BSc (H) Physics	1822013	Yogesh
40. Rishi Yadav	BSc (H) Physics	1822029	Rishi
41. Kishu Jariyal	BSc (H) Physics	1822003	Kishu
42. Jasleen Walia	BSc (H) Physics	1822002	Jasleen
43. Deepanshi	BSc (H) Electronics	1621012	Deepanshi
44. Amber Jain	B.A. (H) Political Science	0721050	Amber



Day-2

S.No	Name	Roll No.	Course	Signature
1.	Piyush Tha	1623048	B.Sc (H) Electronics	<u>Piyush Tha</u>
2.	Fatima Ansari	1323027	B.Sc (H) Biological Science	<u>Fatima Ansari</u>
3.	Saustabh Kumar Pandey	1123094	B.Sc (P) Life Sciences	<u>Saustabh Pandey</u>
4.	Akshay Tiwari	1923043	B.Sc (H) Statistics	<u>Akshay Tiwari</u>
5.	Md Asfak	1123083	B.Sc (P) Life sciences	<u>Md Asfak</u>
6.	Aarav Majumdar	1623041	B.Sc (H) Electronics	<u>Aarav</u>
7.	Jitendra sinha	1623009	B.Sc (H) Electronics	<u>Jitendra</u>
8.	Vartika	1623020	B.Sc (H) electronics	<u>Vartika</u>
9.	Sana Singh	1623016	B.Sc (H) electronics	<u>Sana Singh</u>
10.	Kuldeep Bhadewriya	1623038	B.Sc (H) electronics	<u>Kuldeep</u>
11.	Himanshu	1622036	)	<u>Himanshu</u>
12.	Kartik	1622021	)	<u>Kartik</u>
13.	Aman Chaudhary	1623015	B.Sc electronic (hons)	<u>Aman Chaudhary</u>
14.	Samuel Matthews	1623010	B.Sc Electronics (H)	<u>Samuel</u>
15.	Amber Jain	0721050	B.A. (Pol-Sci-en-e) (H)	<u>Amber Jain</u>
16.	Nitesh	1623062	B.Sc (H) Electronics	<u>Nitesh</u>
17.	Abhishek	1623043	B.Sc (H) electronics	<u>Abhishek</u>
18.	Pradeep Kumar Sharma	1623092	B.Sc (H) electronics	<u>Pradeep</u>
19.	Dumit Kumar Sinha	1622049	B.Sc (H) electronics	<u>Dumit</u>
20.	Ayush Kukreti	1622001	B.Sc (H) electronics	<u>Ayush</u>
21.	Utkarsh Singh	1622022	B.Sc (H) Electronics	<u>Utkarsh</u>
22.	Mohit Bagadi	1621025	B.Sc (H) Electronics	<u>Mohit</u>
23.	Kislay Kumar	1621021	B.Sc (H) elec.	<u>Kislay</u>
24.	Aman-Prasad	1623025	B.Sc (H) Electrons (1st year)	<u>Aman</u>
25.	Manish Saroha	1822004	B.Sc (H) Physics	<u>Manish</u>



Tirumala Tirupati Devasthanams

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**Sri Venkateswara College**

(University of Delhi)


NAAC Grade A+

## CERTIFICATE

This is to certify that the Seminar on “**Just IoThings - Training Program on IoT**” was successfully conducted on 20/10/2023 & 21/10/2023 from (01:00-04:00 PM) by Department/society of ELECTRONICS in the OFFLINE mode and its event report has been submitted to IQAC for records.

  
Event In-Charge

  
IQAC Coordinator  
Coordinator, IQAC  
Sri Venkateswara College  
(University of Delhi)  
Dhaura Kuan, New Delhi-110021

  
Principal  
PRINCIPAL (Acting)  
Sri Venkateswara College  
(University of Delhi)  
Dhaura Kuan, New Delhi-110021