माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE

IETE BHOPAL CENTER

Event Report

ESP32 Core – Hands-On Embedded IoT Workshop

1. Introduction

The **IEI Students' Chapter (Electronics), MITS Gwalior**, in collaboration with the **Department of Electronics Engineering, Madhav Institute of Technology and Science, Deemed University, Gwalior**, and **IETE Bhopal Centre**, successfully organized a 3-Day Hands-On Workshop titled **"ESP32 Core – Hands-On Embedded IoT Workshop"** from **11 March to 13 March 2026**.

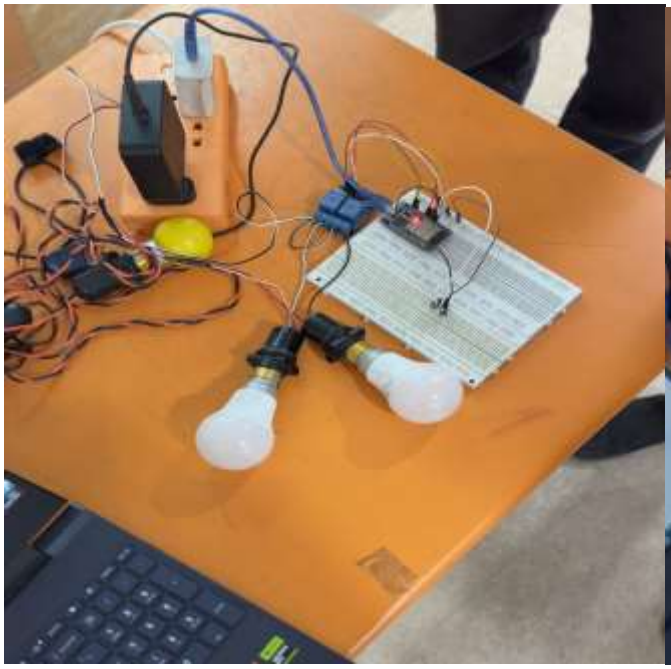
The objective of the workshop was to provide students with practical exposure to **Embedded Systems and Internet of Things (IoT)** using **ESP32**. The workshop mainly targeted first and second year students, focusing on hands-on learning and real-world applications.

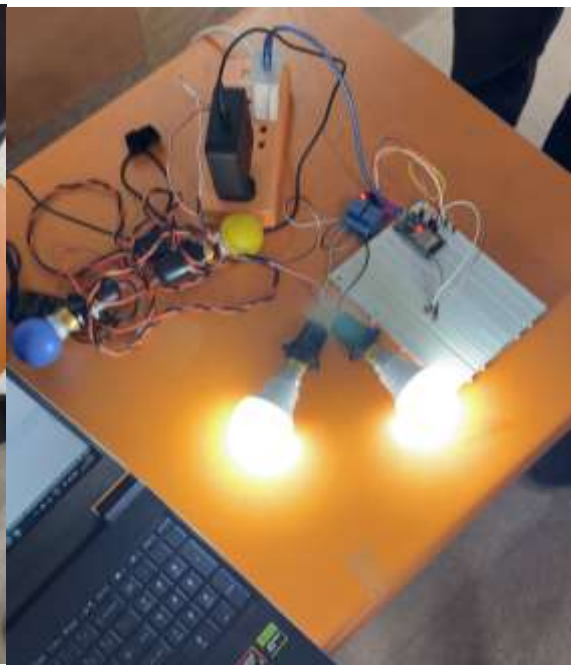
2. Workshop Sessions and Activities

The workshop began with an online expert session by **Dr. Gaurav Verma**, Founder and Director of Marvinno Technologies, Delhi, who shared insights on IoT technologies and industry applications.

The hands-on sessions were conducted under the guidance of **Dr. Varun Mishra, Dr. Kumar Gaurav**, and **Dr. Rahul Dubey**, who supported the participants throughout the workshop.

Participants learned **ESP32 programming, Arduino IDE setup, hardware interfacing,** and **IoT project development**. Students worked in teams and successfully developed practical projects using ESP32 and electronic components.





3. Participation and Outcome

The workshop received an overwhelming response with over **100 participants**, actively engaging in all sessions and activities.

The event concluded with a **certificate distribution ceremony** held on **16 March 2026** in Seminar Hall 6, where participants, volunteers, and faculty members were appreciated for their contributions.

Overall, the workshop proved to be a valuable learning experience, enhancing students' practical knowledge in **Embedded Systems and IoT**.

4. Conclusion

The ESP32 Core Workshop successfully equipped participants with hands-on knowledge of embedded systems design and IoT project implementation. Students gained practical skills in programming, hardware interfacing, and building real-world IoT solutions using ESP32. The sessions strengthened foundational understanding and boosted confidence in applying these technologies.

Overall, the workshop served as a strong entry point into the field of Embedded Systems and IoT, preparing participants for advanced studies, internships, and future technology-based projects.


CERTIFICATE
OF PARTICIPATION
THIS IS TO CERTIFY THAT
Anoop Singh Rajawat
has successfully participated in the 3-Day Hands-On Workshop
"ESP32 Core – Hands-On Embedded IoT Workshop" organized by the Department of Electronics Engineering, Madhav Institute of Technology and Science, Deemed University, Gwalior, in collaboration with IETE Bhopal Centre and IEI Students' Chapter (Electronics), held from 11–13 March 2026. During the workshop, the participant gained practical exposure to Embedded Systems and IoT development using ESP32.
Dr. Varun Mishra (Event Coordinator)
Prof. Laxmi Shrivastava (HOD, Electronics Department)
Dr. Rahul Dubey (Coordinator, IEI)
Prof. P. K. Singhal (Dean, Quality Assurance)


CERTIFICATE
OF PARTICIPATION
THIS IS TO CERTIFY THAT
Kaushal Sharma
has successfully participated in the 3-Day Hands-On Workshop
"ESP32 Core – Hands-On Embedded IoT Workshop" organized by the Department of Electronics Engineering, Madhav Institute of Technology and Science, Deemed University, Gwalior, in collaboration with IETE Bhopal Centre and IEI Students' Chapter (Electronics), held from 11–13 March 2026. During the workshop, the participant gained practical exposure to Embedded Systems and IoT development using ESP32.
Dr. Varun Mishra (Event Coordinator)
Prof. Laxmi Shrivastava (HOD, Electronics Department)
Dr. Rahul Dubey (Coordinator, IEI)
Prof. P. K. Singhal (Dean, Quality Assurance)

Attendance ESP32 workshop

Team No	Participant Name	Certificate Ref No	Day 1	Day 2	Day 3
10	Aahana Sengar	EC/ESP/01	P	P	P
10	Shaili Kumari	EC/ESP/02	P	P	P
10	Bhavya Tiwari	EC/ESP/03	P	P	P
10	Vasu Dixit	EC/ESP/04	P	P	P
11	Alok Pratap Singh Jadon	EC/ESP/05	P	P	P
11	Arnav Sharma	EC/ESP/06	P	P	P
11	Ashwin Kumar	EC/ESP/07	P	P	P
11	Aryavardhan Singh Dhakre	EC/ESP/08	P	P	P
11	Divyansh Sharma	EC/ESP/09	P	P	P
14	Palak Shivhare	EC/ESP/10	P	P	P
14	Satyam Agarwal	EC/ESP/11	P	P	P
14	Suraj Singh Narwariya	EC/ESP/12	P	P	P
14	Saumya Pal	EC/ESP/13	P	P	P
18	Rajveer Gurjar	EC/ESP/14	P	P	P
18	Rohit Singh Bhadouriya	EC/ESP/15	P	P	P
18	Sarvesh Tiwari	EC/ESP/16	P	P	P
18	Rahul Ahirwar	EC/ESP/17	P	P	P
18	Pravesh Kumar	EC/ESP/18	P	P	P
18	Mridul Mishra	EC/ESP/19	P	P	P
22	Nirmal Kumar Sawner	EC/ESP/20	P	P	P
22	Ankur Singh Yadav	EC/ESP/21	P	P	P
22	Navneet Rathore	EC/ESP/22	P	P	P
22	Ayush Jain	EC/ESP/23	P	P	P
22	Vayam Choudhry	EC/ESP/24	P	P	P
23	Yogita Sharma	EC/ESP/25	P	P	P
23	Manya Sirothiya	EC/ESP/26	P	P	P
23	Shivam Rajoriya	EC/ESP/27	P	P	P
23	Shaurya Bandil	EC/ESP/28	P	P	P
23	Shiva Gupta	EC/ESP/29	P	P	P
24	Shreyansh Singh	EC/ESP/30	P	P	P
24	Jay Tiwari	EC/ESP/31	P	P	P
24	Jayshree Pathak	EC/ESP/32	P	P	P
24	Vishnu Agrawal	EC/ESP/33	P	P	P
24	Shivam Singh Narwaria	EC/ESP/34	P	P	P
24	Shridhar Sharma	EC/ESP/35	P	P	P
24	Udit Amoda	EC/ESP/36	P	P	P
24	Prashant Kumar	EC/ESP/37	P	P	P
25	Arya Tomar	EC/ESP/38	P	P	P
25	Kajal Chauhan	EC/ESP/39	P	P	P
25	Akansha Rathaur	EC/ESP/40	P	P	P

Attendance ESP32 workshop

25	Anuj Gupta	EC/ESP/41	P	P	P
25	Aryan Jain	EC/ESP/42	P	P	P
25	Bhuvi Singhal	EC/ESP/43	P	P	P
25	Anshika Sharma	EC/ESP/44	P	P	P
25	Aarohi Gupta	EC/ESP/45	P	P	P
1	Anoop Singh Rajawat	EC/ESP/46	P	P	P
1	Ajeet Gurjar	EC/ESP/47	P	P	P
1	Kaushal Sharma	EC/ESP/48	P	P	P
1	Ankesh Rathor	EC/ESP/49	P	P	P
1	Aditya Mishra	EC/ESP/50	P	P	P
2	Dhanendra Vishwakarma	EC/ESP/51	P	P	P
2	Hariom Vishwakarma	EC/ESP/52	P	P	P
2	Mayank Sahu	EC/ESP/53	P	P	P
2	Nishant Kumar Vishwakarma	EC/ESP/54	P	P	P
3	Rohit Ahirwar	EC/ESP/55	P	P	P
5	Satwik Dubey	EC/ESP/56	P	P	P
5	Prajwal Dashore	EC/ESP/57	P	P	P
5	Pawni Gour	EC/ESP/58	P	P	P
5	Payal Rajput	EC/ESP/59	P	P	P
5	Palak Sharma	EC/ESP/60	P	P	P
6	Varish Shukla	EC/ESP/61	P	P	P
6	Yash Baghel	EC/ESP/62	P	P	P
6	Virat Jaat	EC/ESP/63	P	P	P
6	Nakul kushwah	EC/ESP/64	P	P	P
6	Lalit Puriya	EC/ESP/65	P	P	P
6	Tanishk Pal	EC/ESP/66	P	P	P
7	Sachin Gupta	EC/ESP/67	P	P	P
7	Priyanshi Jain	EC/ESP/68	P	P	P
7	Anil Rathor	EC/ESP/69	P	P	P
7	Omesh Nigam	EC/ESP/70	P	P	P
1	Harshal Gandhi	EC/ESP/71	P	P	P
1	Arun Mishra	EC/ESP/72	P	P	P
5	Rohit Sharma	EC/ESP/73	P	P	P
26	Satyam Dubey	EC/ESP/74	P	P	P
26	Pramod Kushwaha	EC/ESP/75	P	P	P
26	Krishna Dubey	EC/ESP/76	P	P	P
26	Aryaveer Shandilya	EC/ESP/77	P	P	P
26	Kush Bagora	EC/ESP/78	P	P	P
3	Aman Goyal	EC/ESP/	P	P	P
3	Aman Patel	EC/ESP/	P	P	P
3	Anuj Sharma	EC/ESP/	P	P	P

Attendance ESP32 workshop

3	Anuj Garg	EC/ESP/	P	P	
4	Dev Sahu	EC/ESP/	P	P	P
4	Kshitiz Singh	EC/ESP/		P	P

Dr. Varun Mishra
Event Coordinator

Prof. (Dr.) Laxmi Shrivastava
HoD, Electronics Engineering

FEEDBACK FORM

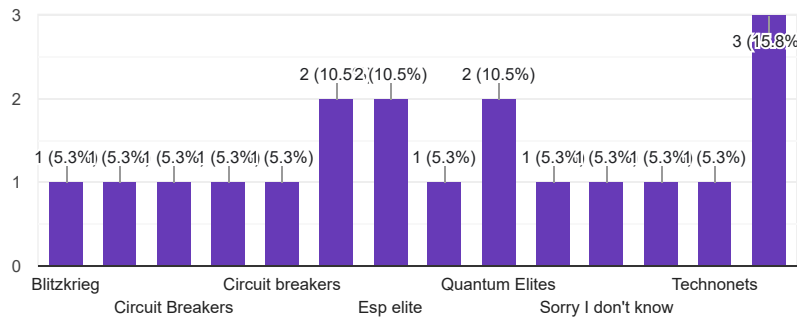
19 responses

Publish analytics

TEAM NAME

Copy

19 responses



PARTICIPANT NAME

19 responses

Anoop Singh Rajawat

Anil Rathor

Adil Qureshi

Navneet Rathor

VARISH SHUKLA

Anuj Gupta

Arnav Sharma

manya sirothiya

Sachin Gupta

Aryavardhan Singh Dhakre

Alok Pratap Singh Jadon

Aditya mishra

Rohit Sharma

Omesh Nigam

Harshal Gandhi

Dhanendra Vishwakarma

Hariom Vishwakarma

Rohit singh bhadouriya

Priyanshi Jain

ENROLLEMENT NO:

19 responses

BTEL24O1023

BTET25O1016

0901EC231006

BTIR25O1031

BTIO25O1141

BTET25O1022

BTIO25O1029

BTIO25O1078

BTEL24O1111

BTIO25O1032

BTIO25O1016

BTEL24O1009

BTET24O1107

0901IT231051

BTEL24O1053

BTET24O1044

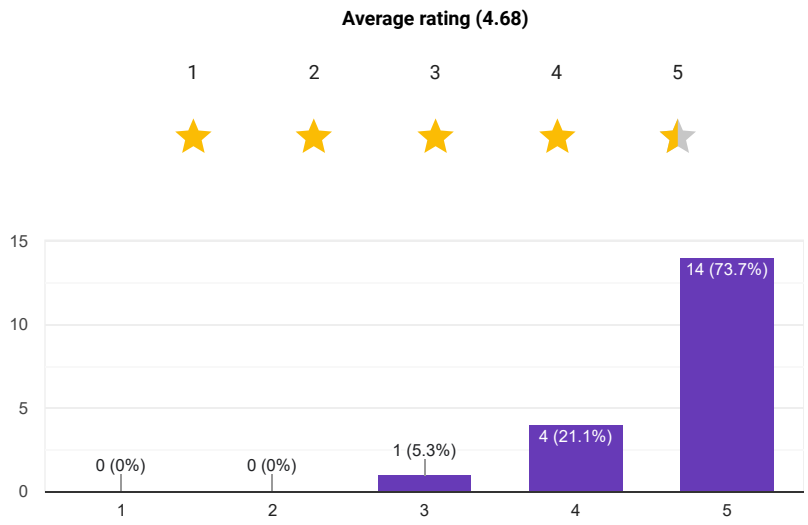
BTET24O1051

BTIO25O1102

BTEL24O1096

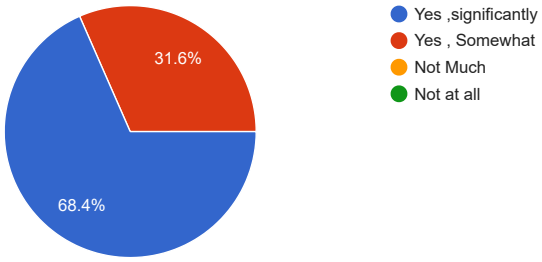
How would you rate the overall workshop? Copy

19 responses



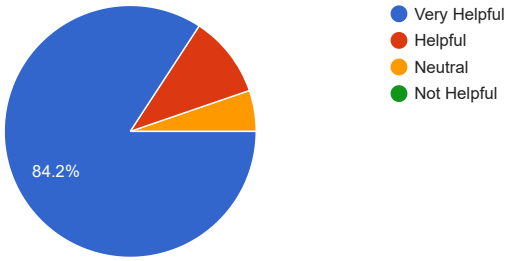
Did this workshop help you understand Embedded Systems and IoT using ESP Copy

19 responses



How helpful was the hands-on project session during the workshop Copy

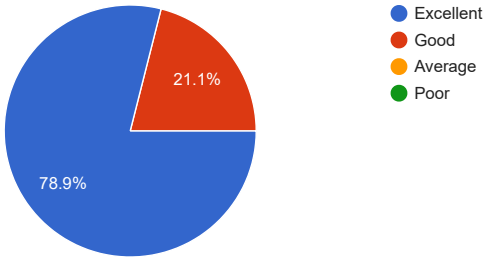
19 responses



How would you rate the organization and management of the workshop?

Copy

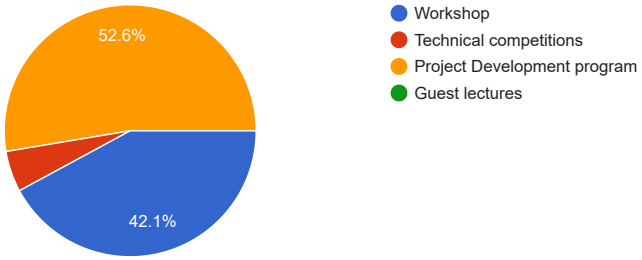
19 responses



What type of events would you like to see organized in the future?

Copy

19 responses



Do you have any suggestions for improving future workshops?

9 responses

No

Pcb design workshop

No everything was good

If possible, next time please choose a classroom with more electricity boards and sockets :)

No, workshop is very good

The orgnise the workshop in this topic, PCB Design, process of making antenna and also make simple Chip/IC using VARILOG. We also organise the workshop microprocessor assembly language and working etc.

Best