

Department of Electronics and Telecommunication Engineering

Event Report

Introduction to Arduino, R-Pi and IoT

January 01 to February 5, 2026

Event Information

Event Type: Value added course

Event title: Introduction to Arduino, R-Pi and IoT

Resource Person:

1. Prof. Pratibha Joshi
2. Prof. Prachi Shahane

Event date: 01/01/26 to 31/01/26

Organized for: FE Students

Organized by: Department of Electronics and Telecommunication and Computer Engineering

Attachments: 1. Photographs (in JPEG/PNG)

2. Attendance report

3. Feedback

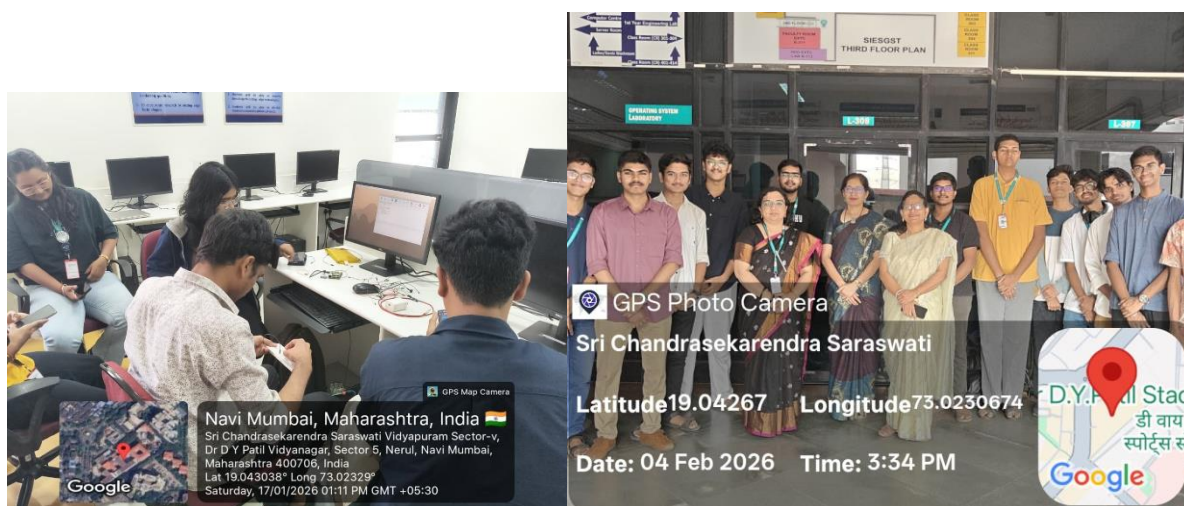
4. Impact Analysis

Event Description

The Department of EXTC and Computer organized a Value Added Course titled **“Hands–On: IoT Using Arduino, Raspberry Pi & ESP32 Boards.”** The course was conducted by Prof. Pratibha Joshi and Prof. Prachi Shahane with the objective of enhancing students’ practical knowledge in emerging IoT and embedded system technologies. The program focused on bridging the gap between theoretical concepts and real-world industrial applications. The main objectives of the course were:

- To introduce students to the fundamentals of Internet of Things (IoT) systems.
- To provide hands-on experience with Arduino Uno, Raspberry Pi (RPI), and ESP32 boards.
- To enable students to understand sensor interfacing and hardware–software integration.
- To develop practical skills required for embedded system design and IoT-based applications.
- To encourage innovation, problem-solving, and project-based learning.
- To prepare students for industry requirements in IoT, automation, and smart system development.

1. Photographs (in JPEG/PNG)





2. Attendance report

SIES GRADUATE SCHOOL OF TECHNOLOGY Value Added Course on IoT Using Arduino,R-pi, ESP32 and Node MCU

Sr NO.		Date	02/01	02/01	17/01	24/01	4/2	5/2
1	125A8106 Namit Nagesh Shetty ✓	AIDS	Namit	Namit	Namit	Namit	Namit	Namit
2	125AX009 Bhavya mangilal chouhan	AIDS	Bhavya	Bhavya	Bhavya	Bhavya	Bhavya	Bhavya
3	125A9024 Kumar Kashinath Mhatre ✓	AIML	Kumar	Kumar	Kumar	Kumar	Kumar	Kumar
4	125A3045 Krunal Kalpesh Kilje ✓	IT	Krunal	Krunal	Krunal	Krunal	Krunal	Krunal
5	125A3105 Akriti Singh	IT	Akriti	Akriti	Akriti	Akriti	Akriti	Akriti
6	125A8104 Parash Santosh Sharma ✓	AIDS	Parash	Parash	Parash	Parash	Parash	Parash
7	125A3028 Shreyash Gangadhare ✓	IT	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash
8	125AX038 Sandesh Kailash Panda	CSE-IOT	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh
9	125AX038 Sandesh kailash Panda	CSE-IOT	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh
10	125A9038 Bibek Anupkumar Padhy •	AIML	Bibek	Bibek	Bibek	Bibek	Bibek	Bibek
11	125A3031 Sahil Giri	IT	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
12	125AX050 Prathik Sundar ✓	CSE-IOT	Prathik	Prathik	Prathik	Prathik	Prathik	Prathik
13	125A8098 Sheikh aqib shafi	AIDS	Sheikh	Sheikh	Sheikh	Sheikh	Sheikh	Sheikh
14	125A1175 shivam manoj kumar trivedi •	Computer	shivam	shivam	shivam	shivam	shivam	shivam
15	125A1117 Atharva Bholenath Patil •	Computer	Atharva	Atharva	Atharva	Atharva	Atharva	Atharva
16	125A7006 Bansil Swamireddy ✓	ECS	Bansil	Bansil	Bansil	Bansil	Bansil	Bansil
17	125AX032 Nadar Shreenee Ganesan	CSE-IOT	Nadar	Nadar	Nadar	Nadar	Nadar	Nadar
18	125AX037 Saismruti Panda	CSE-IOT	Saismruti	Saismruti	Saismruti	Saismruti	Saismruti	Saismruti
22	125A3046 Pranav kokande ✓	IT	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav
23	125A2009 Pranav Chint	EXTC	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav
24	125A1139 Saiamod Sreekrishnan ✓	Computer	Saiamod	Saiamod	Saiamod	Saiamod	Saiamod	Saiamod
25	124A055 Sampada Siganmalli ✓	Ex TC	Sampada	Sampada	Sampada	Sampada	Sampada	Sampada
26	Amrita Pandey		Amrita	Amrita	Amrita	Amrita	Amrita	Amrita
27	Shikha Pandey		Shikha	Shikha	Shikha	Shikha	Shikha	Shikha
28	Aarya Pomendkar		Aarya	Aarya	Aarya	Aarya	Aarya	Aarya

3. Feedback (Analysis)

Responses Overview Active

Responses

12

Average Time

00:50

Duration

14 Days

1. Name

12

Responses

Latest Responses

"Nimit Nagesh Shetty"

"Pranav Kokande"

"SHREYASH SACHIN GANGADHARE"

...

2 respondents (17%) answered Pranav kokande for this question.

Bansi Swamireddy

Nagesh

BIBEK

ANUPKUMAR

SACHIN GANGADHARE

Pranav kokande

Namit Shetty

PADHY

Sampada Singanmalli

Bhavya chouhan

Saiamod

Sreekrishnan

Kumar

2. Roll Number

12

Responses

Latest Responses

"125A8106"

"125A3046"

"125A3028"

...

2 respondents (17%) answered 125A3046 for this question.

124A2055

125A1139

125A7006

125AX009

125A3046

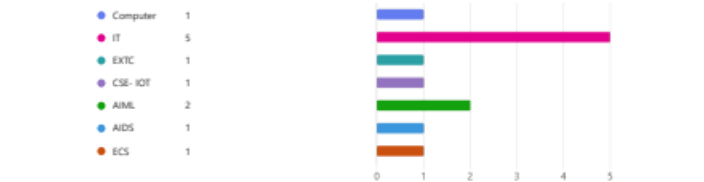
125A9024

125A8106

125A9038

125A3045

3. Branch : FE



2/24/26, 10:07 AM

Feedback for SDP : Hands -On: IoT Using Arduino, R-pi, & ESP32 Boards -01/01/26 to 31/01/26

4. CO1: Understand the fundamentals of IoT architecture and communication protocols used in real-time embedded and robotic systems.



5. CO2: Identify, select, and integrate hardware components such as sensors, actuators, and microcontrollers (e.g., Arduino, Raspberry Pi) for IoT-based robotic applications.



6. CO3: Interface IoT-enabled devices with cloud platforms or mobile applications to achieve real-time monitoring and control.



7. CO4: Collaborate in teams to design, develop, test, and present a mini project demonstrating practical integration of IoT and robotics concepts for real-world applications.



8. Any Suggestion



Impact Analysis:

After completing the course, students were able to:

- Understand the fundamentals of IoT and embedded systems
- Interface sensors and actuators with Arduino, Raspberry Pi, and ESP32
- Develop basic IoT-based applications
- Apply programming concepts to real-time hardware systems
- observe data on serial monitor and Pushing Data to Things Speak.
- Design and implement innovative embedded system projects
- Gain confidence in handling industrial-level IoT hardware

Outcome:

The Value-Added Course successfully enhanced students' practical knowledge and

technical skills in IoT and embedded systems. The hands-on approach enabled students to gain real-time experience and understand industrial applications. The course contributed significantly to improving students' employability skills, technical competence, and readiness for industry requirements.

Hands –On: IoT Using Arduino, R-pi, & ESP32 Boards -01/01/26 to 31/01/26

SR no	student Group Name	Title of project	Link
G1	Pranav Madukar Kokande	Arduino-based automatic toll gate system	https://docs.google.com/document/d/10rX8rxac6llgSnmSiHtrHhjBc93PRmHB/edit?usp=sharing&ouid=107731015817282007817&rtpof=true&sd=true
	Shreyash Sachin Gangadhare		
	Krunal Kalpesh Kilje		
	Bansi Swamireddy		
G2	Parash Santosh Sharma	Theft Protection System	https://drive.google.com/drive/folders/1W8Rzvtf3lwvxLmV4C6j68arqAyLLHqT7
	Namit Shetty		
	Sandesh Kailash Panda		
	Bibek Anupkumar Padhy		
G3	Shivam Manojkumar Trivedi	SMART PARKING MANAGEMENT SYSTEM	https://siescms-my.sharepoint.com/:b:/g/personal/bhavyamciot125_gst_sies_edu_in/IQCDLZVBh6otT4rPRSK9Zn6eAXO9MSx4rkDrIkba7MCP8IQ?e=uZgd6t
	Prathik Sundar		
G4	Bhavya Chouhan	Pushbutton-Based Counter with Countdown Timer Using Arduino Uno R3	https://drive.google.com/drive/folders/1W8Rzvtf3lwvxLmV4C6j68arqAyLLHqT7
	Saiaomod Sreekrishnan		
G5	Sampada Singanmalli	AI Study Assistant using ESP 8266	https://drive.google.com/drive/folders/1W8Rzvtf3lwvxLmV4C6j68arqAyLLHqT7

Sample Certificate:

