



**ACS College of Engineering**  
Approved by AICTE New Delhi, Affiliated to VTU, Belagavi  
(A Unit of RajaRajeswari Group of Institutions)  
CET Code : E186 COMED-K : E003 PG CET : T918



## Department of Electronics and Communication Engineering

### Student Development Program

**Topic: Embedded Systems and IoT**

**Date: 08.10.2025(Wednesday) to 11.10.2025(Saturday)**

**Time: 9.00 A.M. to 4.00 P.M.**

**Resource Person: Mr. Kotresh Mundrugi**

**Director, Indian Tech-Keys**

**Bengaluru-38**

### Program Objective

The Student Development Program on IoT and Embedded Systems aims to equip students with the skills and knowledge required to design, develop, and implement IoT and embedded systems solutions. Upon completion of the program, students will understand IoT fundamentals, design and develop embedded systems using popular microcontrollers, program and interface sensors and actuators, implement IoT solutions using cloud platforms, and develop real-world projects. They will also collaborate and communicate effectively, stay updated with industry trends, and apply their knowledge and skills to develop innovative solutions. The main objective of this course is to give a Hands-On exposure about IoT for Smart Home and interface of IoT enabled communication devices and driver circuits with embedded system programming and Microcontroller/Microprocessor. It covers the development of Internet of Things (IoT) prototypes including devices for sensing, actuation, processing, and communication to help you develop skills and experiences. Able to design Smart home system starting from getting client requirements, devices selection till making wiring plan and start Installation.

### Program Outcome

- 1. Design IoT-based Smart Home Systems:** Design and develop IoT-based Smart Home systems, integrating sensors, actuators, and communication devices.
- 2. Interface IoT Devices with Microcontrollers:** Interface IoT-enabled communication devices and driver circuits with microcontrollers/microprocessors using embedded system programming.

3. **Implement Smart Home Automation:** Implement Smart Home automation, enabling users to control devices remotely and automate tasks.
4. **Implement Speech-Controlled Applications:** Students will be able to implement text-to-speech conversion and speech processing for speech-controlled applications.
5. **Develop IoT Prototypes:** Develop IoT prototypes, including devices for sensing, actuation, processing, and communication, to solve real-world problems.
6. **Program Microcontrollers:** Program microcontrollers/microprocessors to control and communicate with IoT devices.
7. **Integrate Sensors and Actuators:** Integrate sensors and actuators with IoT devices to collect and process data.
8. **Develop User Interfaces:** Develop user interfaces for Smart Home systems, enabling users to monitor and control devices.
9. **Develop Mobile Apps:** Students will be exposed to mobile app development using a modular-based approach, enabling them to create user interfaces for IoT applications.
10. **Develop Concept to Product:** Students will be able to develop concepts into products, applying IoT technologies and principles.
11. **Understand IoT Kit and Architecture:** Students will understand IoT kits, architecture, and protocols, enabling them to design and develop IoT solutions.
12. **Implement CRUD Operations:** Students will be able to implement CRUD (Create, Read, Update, Delete) operations using Google Firebase, enabling data management and analysis.

**Participants:** 5<sup>th</sup> semester students of Department of ECE

**Event Convener:**

Dr S M Vijaya, Prof & HoD – ECE

**Event Co-Ordinator:**

Mrs. Chandrakala G S , Assistant Professor – ECE

<b>Event outcomes</b>	
<b>POs</b>	<b>PO1,PO3,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12</b>
<b>PSOs</b>	<b>PS01,PS02</b>

## Event Poster



# ACS COLLEGE OF ENGINEERING

Affiliated to VTU, Belagavi Approved by AICTE, New Delhi & GoK  
No. 207 Kambipura, Mysore Road, Bangalore – 560 074



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

*Cordially invites all for the Inaugural Function of*  
**4 Days - Student Development Program on**  
**'Embedded Systems and IOT'**



8th -11th October 2025

TIME - FROM 8:30 AM TO 04:00 PM



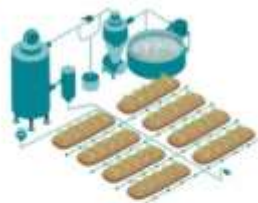
No 305, 3rd Floor  
ACSCE



Resource Person

**Mr. Kotresh Mundrugi**

Director  
M/s. Indian Tech-Keys  
Bengaluru



**Coordinators:**

Mrs. Chandrakala G S  
Asst. Professor - ECE

**Convener:**

Dr. S M Vijaya  
Professor & HOD - ECE

Dr. A. K. Mariappan, Rector, RRG  
Dr. Meenakshi Sundaram, Registrar, RRG  
Dr. Anandthirtha B Gudi, Principal, ACSCE



9008545678  
9900500028



[www.acsce.edu.in](http://www.acsce.edu.in)

**CONTACT US**

## Event Photos





Bengaluru, Karnataka, India  
SH 84, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891266, Long: 77.466275  
10/09/2025 09:27 AM GMT+05:30  
Note: Captured by GPS Map Camera



Bengaluru, Karnataka, India  
SH 84, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891244, Long: 77.466043  
10/10/2025 02:44 PM GMT+05:30  
Note: Captured by GPS Map Camera



Bengaluru, Karnataka, India  
SH 84, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891204, Long: 77.462042  
12/09/2025 09:29 AM GMT+05:30  
Note: Captured by GPS Map Camera



Bengaluru, Karnataka, India  
SH 84, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891173, Long: 77.466146  
18/10/2025 02:45 PM GMT+05:30  
Note: Captured by GPS Map Camera



Bengaluru, Karnataka, India  
KH Layout, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891247, Long: 77.466024  
10/11/2025 04:39 PM GMT+05:30  
Note: Captured by GPS Map Camera



Bengaluru, Karnataka, India  
KH Layout, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891239, Long: 77.466074  
10/11/2025 12:27 PM GMT+05:30  
Note: Captured by GPS Map Camera



Bengaluru, Karnataka, India  
KH Layout, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891310, Long: 77.465949  
10/11/2025 03:54 PM GMT+05:30  
Note: Captured by GPS Map Camera



Bengaluru, Karnataka, India  
KH Layout, Kambipura, Bengaluru, Karnataka  
560074, India  
Lat: 12.891163, Long: 77.465949  
10/11/2025 04:01 PM GMT+05:30  
Note: Captured by GPS Map Camera

Student Attendance



ACS College of Engineering



NAAC 'A'



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

V SEM STUDENT LIST FOR SDP

SLNO	USN	STUDENT NAME	08-10-2025	09-10-2025	10-10-2025	11-10-2025
1	1AH23EC001	ABHISHEK C	Present	Present	Present	Present
2	1AH23EC002	AKASH P	Present	Present	Present	Present
3	1AH23EC004	ASHWATH BIRADAR	Present	Present	Present	Present
4	1AH23EC005	B DARSHAN	Present	Present	Present	Present
5	1AH23EC006	B S SUPRIYA	Present	Present	Present	Present
6	1AH23EC007	BHUMIKA Y	Present	Present	Present	Present
7	1AH23EC008	CHAITHRA SANJANA K S	Present	Present	Present	Present
8	1AH23EC010	CHITRA S	Present	Present	Present	Present
9	1AH23EC011	DARSHAN U B	Present	Present	Present	Present
10	1AH23EC012	DHYAN K	Present	Present	Present	Present
11	1AH23EC013	DIVYA V	Present	Present	Present	Present
12	1AH23EC014	G MOULYA	Present	Present	Present	Present
13	1AH23EC016	HARSHITHA N	Present	Present	Present	Present
14	1AH23EC017	HARSHITHA P V	Present	Present	Present	Present
15	1AH23EC018	HARSHITHA S	Present	Present	Present	Present
16	1AH23EC020	LAVANYA K S	Present	Present	Present	Present
17	1AH23EC021	LITHIN M	Present	Present	Present	Present
18	1AH23EC026	MONISHA K K	Present	Present	Present	Present
19	1AH23EC028	P ARPITHA	Present	Present	Present	Present
20	1AH23EC029	PALLAVI S	Present	Present	Present	Present
21	1AH23EC033	PRAKRUTHI O	Present	Present	Present	Present
22	1AH23EC034	PRAVEEN GOWDA G M	Present	Present	Present	Present
23	1AH23EC036	PRERANA S U	Present	Present	Present	Present
24	1AH23EC037	PRIYANKA P HOONALLI	Present	Present	Present	Present
25	1AH23EC039	R ARVIND SIDDHARTH	Present	Present	Present	Present
26	1AH23EC040	RAKSHITHA H	Present	Present	Present	Present
27	1AH23EC041	RAMYA S	Present	Present	Present	Present
28	1AH23EC042	ROHIT B V	Present	Present	Present	Present
29	1AH23EC044	RUTHVIKA R MURTHY	Present	Present	Present	Present
30	1AH23EC046	SAKSHI B S	Present	Present	Present	Present
31	1AH23EC047	SANGEETHA S	Present	Present	Present	Present
32	1AH23EC048	SHALINI K R	Present	Present	Present	Present
33	1AH23EC051	SHRINIDHI T N	Present	Present	Present	Present
34	1AH23EC052	SNEHA K	Present	Present	Present	Present
35	1AH23EC053	SPANDANA L GANIGER	Present	Present	Present	Present
36	1AH23EC054	SUJAN R S	Replaced			
37	1AH23EC056	VAISHNAVI	Present	Present	Present	Present
38	1AH23EC057	VAISHNAVI G KADAKOL	Present	Present	Present	Present

39	1AH23EC058	VAISHNAVI V	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
40	1AH23EC059	VANI	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
41	1AH23EC061	VINYA G	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
42	1AH23EC062	YASHAS N NAIK	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
43	1AH23EC063	YOGRAJ R	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
44	1AH24EC403	KEERTHANA C	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
45	1AH23EC030	PARIKANKSHA.V	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA

  
COORDINATOR

91  
HOD, ECE

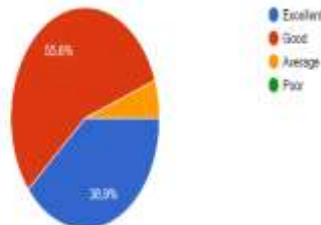
HOD  
Dept. of ECE  
ACS College of Engineering  
Bangalore - 560 074

0

## Feedback

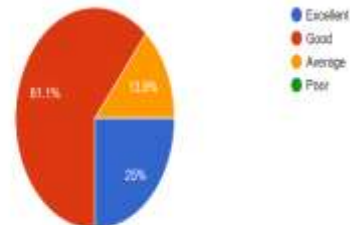
The program helped to apply the knowledge of mathematics, science, engineering fundamentals, and computer science and business systems to the solution of complex engineering and societal problems

36 responses



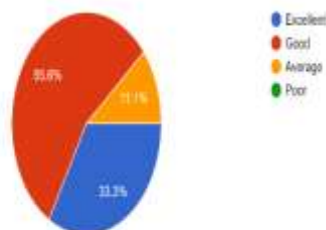
The program helped to identify, formulate, review research literature, and analyze complex engineering and business problems reaching substantialities, natural sciences, and engineering sciences

36 responses



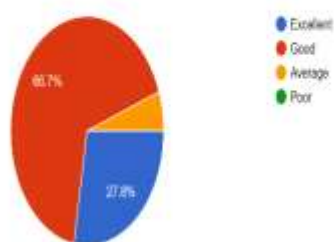
The program helped to design solutions for complex engineering problems and design system components or processes that meet the specified natural, societal and environmental considerations.

36 responses



The program helped to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, analysis of the information to provide valid conclusions

36 responses



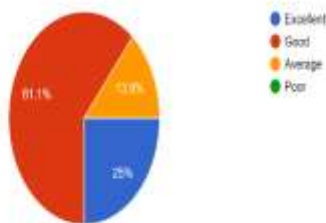
The program helped to create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling with an understanding of the limitations

36 responses



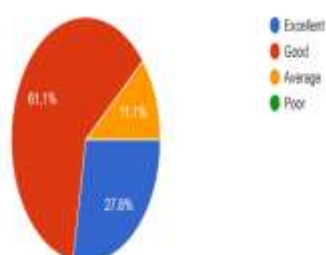
The program helped to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequences professional engineering and business practices.

36 responses



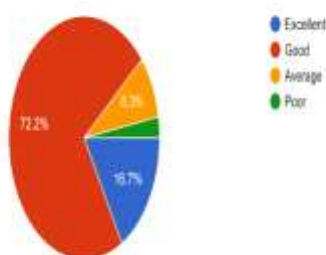
The program helped to understand the impact of the professional engineering solutions in business societal and environmental contexts, and demonstrate knowledge of, and need for sustainable development.

36 responses



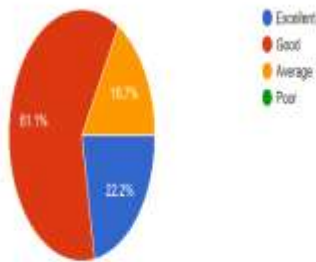
The program helped to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering and business practices

36 responses



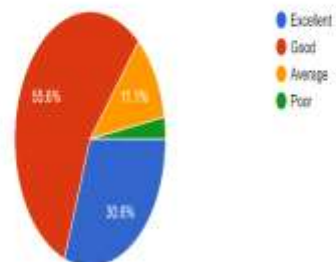
The program teaches to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

36 responses



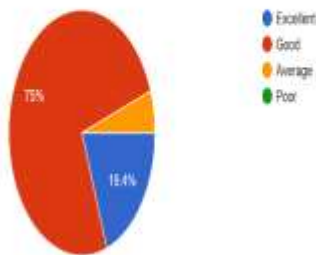
The program helped to communicate effectively on complex engineering activities with the engineering community and with society at large, su...entations, and give and receive clear instructions

36 responses



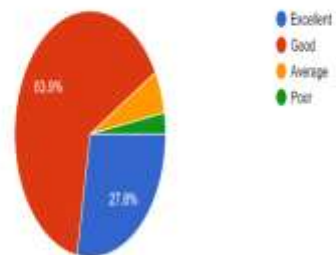
The program helped to demonstrate knowledge and understanding of the engineering, business and management principles and apply these to one's own... projects and in multidisciplinary environments.

36 responses

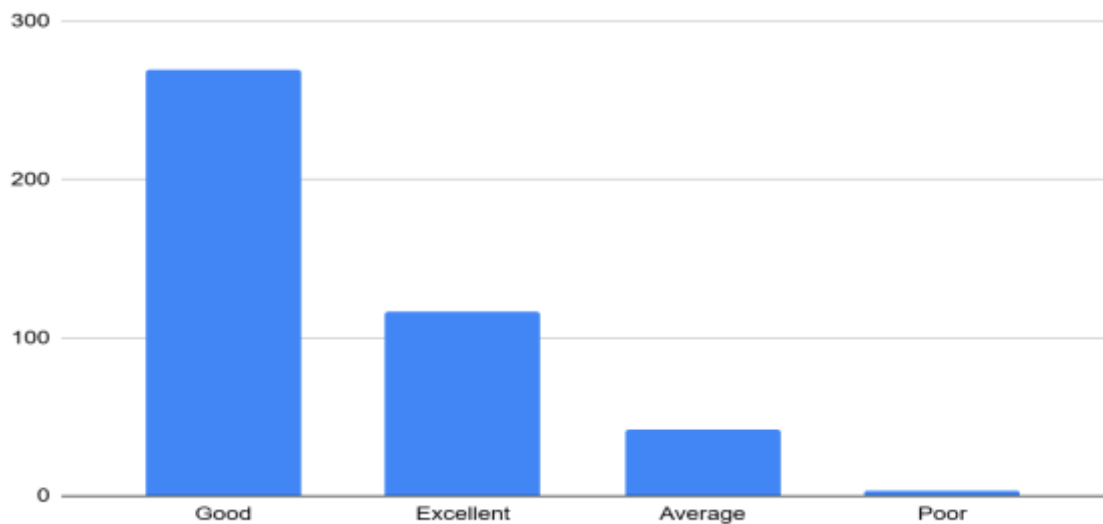


The program helped to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

36 responses



### Overall Response



*[Signature]*  
COORDINATOR

*[Signature]*  
HOD  
HOD  
Dept. of ECE  
ACS College of Engineering  
Bangalore - 560 074

*[Signature]*  
Principal  
PRINCIPAL  
ACS COLLEGE OF ENGINEERING  
Ambipura, Mysore Road, Kengeri Hobli  
Bangalore-560074

