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 PGCET : T918

Department of Biomedical Engineering

"Technical talk – August_2025"

Topic: **Applications of IoT and Embedded Systems in Healthcare and Embedded systems**

Date: 12/08/2025

Time: 2 P.M. to 3.30 P.M.

Chief Guest : Mr. Abhilash P.H., &
Mr. Pramod Shashikant kasbekar
Specialists (IoT & Embedded systems) Vector India, Bengaluru

Sponsorship : ACS College of Engineering

1. Programme Objective

To enhance students' knowledge and practical skills in the applications of Internet of Things (IoT) and embedded systems, with a focus on their integration in healthcare and communication systems, thereby fostering innovation, problem-solving abilities, and industry readiness in emerging technology domains.

2. Program Outcome

1. **Innovation and Creativity Boost**
   Students were encouraged to think beyond conventional solutions, exploring innovative ways in which IoT and embedded systems can address modern challenges in patient care and communication networks.

2. **Enhanced Technical Competency**
   The sessions deepened students' understanding of system architectures, integration methods, and emerging trends, strengthening their theoretical foundation in these rapidly evolving domains.

3. **Industry Exposure and Inspiration**
   Expert talks provided valuable insights into real-world implementations and industry advancements, inspiring students to pursue cutting-edge applications in their future careers.

4. **Critical Thinking and Decision-Making**
   The programme stimulated analytical thinking by presenting case scenarios and conceptual challenges, enabling students to evaluate solutions from multiple perspectives.

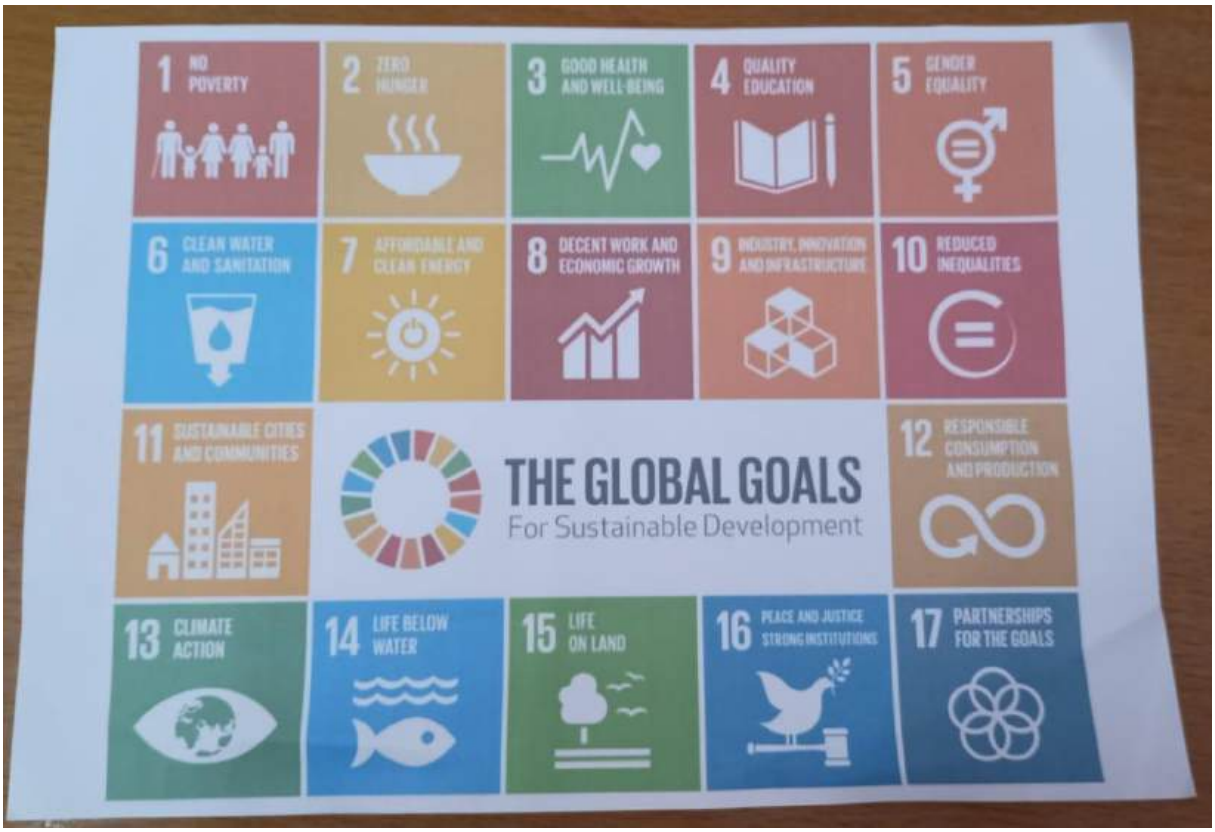
5. **Recognition and Motivation**
   Participation in the programme offered students an opportunity to be acknowledged for their interest in advanced technologies, motivating them to continue learning and innovating in the field.

Participants: 5th& 7th semester students of BME Department

Event Co-ordinator:

Dr HariharaSudhan V. G., Associate Professor – BME

3. Sustainable development goals



From the above sustainable goals, this student interaction programme encourages quality education (Goal - 4) through innovations and recent trends in industry (Goal - 9).

4. Event Poster



5. Resource person details

Name: Pramod Shashikant Kasbekar (Resource person - 1).
Designation: Senior Embedded Trainer
Professional Experience:

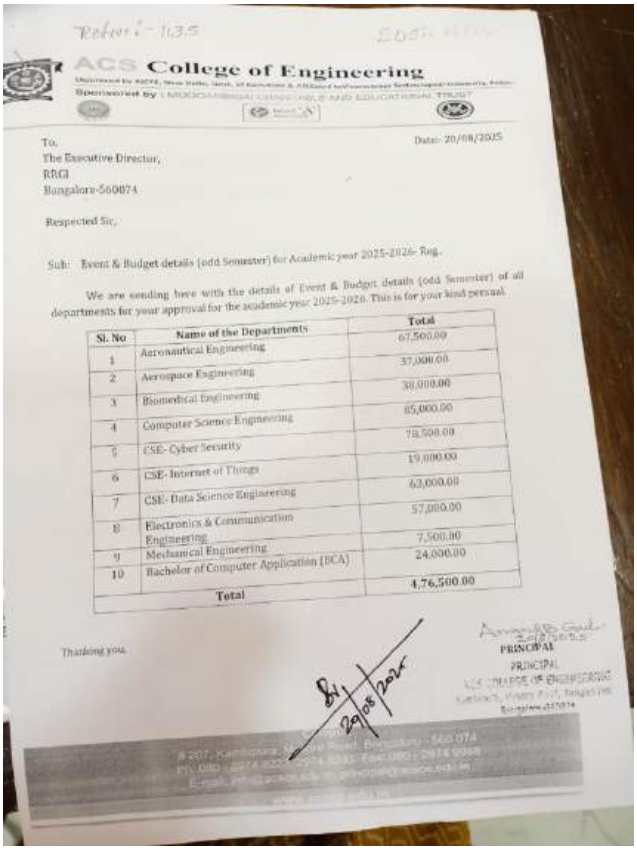
- Vector India Pvt Ltd, Bangalore Karnataka
    - Embedded System Engineer cum Embedded Senior Trainer May 2012—present.
    - Expertise in ARM and 8bit firmware development with capabilities to connect Embedded studies with project requirements in real-time scenario.

Core Competencies
Programming: Linux device drivers (User space & kernel space), C-language, Embedded C language, 8bits & 32bits SoC Assembly language, Data structure, Python.

Protocols: CAN, I2C, SPI, UART, RC5&6, JTAG Debugger.
Softwares: Keil MDK, STM32 Cube IDE, MPLAB IDE, CVAVR IDE, Putty, Code block, CANoe & CAN Analyser, Proteus, Buildroot, Yocto, GNU Make, GNU GDB, Pubnub cloud SDK for IoT applications.
Microcontrollers: NXPs 32bit ARM7 based SoC LPC2148, LPC2129, LPC1768, STM32, Arduino, Node MCU, Link it one, Atmel's 8bits 8051, AVR & PIC.
Linux porting experience: Building customized Linux OS using Build root & Linux porting on RPi, phytech RANA board & BBB, Kernel Compilation & customization (Native & Cross), RT-Linux Patching.

Abhilash (Resource person - 2) is a highly experienced instructor at an embedded training institute, boasting over six years of expertise in the field. He plays a crucial role in the institute, primarily focusing on hardware-related training and providing supportive classes to students. His extensive background allows him to effectively guide learners through complex embedded systems concepts, particularly those involving hands-on hardware components. He's known for his practical approach and ability to bridge the gap between theoretical knowledge and real-world application.

6. Budget Approval



ACS College of Engineering

Sponsored by

To,
The Executive Director,
RRCI
Bangalore-560074

Date: 20/08/2025

Respected Sir,

Sub: Event & Budget details (odd Semester) for Academic year 2025-2026- Reg.

We are sending here with the details of Event & Budget details (odd Semester) of all departments for your approval for the academic year 2025-2026. This is for your kind perusal.

Sl. No	Name of the Departments	Total
1	Aeronautical Engineering	67,500.00
2	Aerospace Engineering	37,000.00
3	Biomedical Engineering	38,000.00
4	Computer Science Engineering	85,000.00
5	CSE- Cyber Security	78,500.00
6	CSE- Internet of Things	19,000.00
7	CSE- Data Science Engineering	63,000.00
8	Electronics & Communication Engineering	57,000.00
9	Mechanical Engineering	7,500.00
10	Bachelor of Computer Application (BCA)	24,000.00
	Total	4,76,500.00

Thanking you,

PRINCIPAL

7. Geotagged photos









8. Student Attendance:

ACS College of Engineering

Department Of Biomedical Engineering
V Semester Student Attendance
Technical talk – Vector India 12/08/25

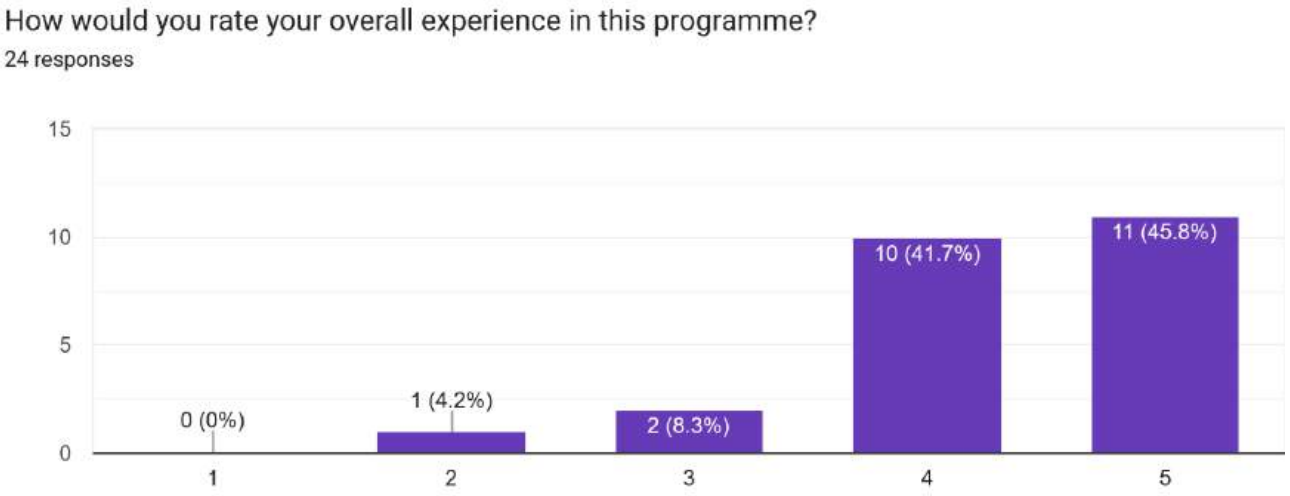
SL NO	USN	NAME	Signature
1.	1AH23BM001	ALWIN RAJU	
2.	1AH23BM002	ANILET ENITA	Anilet
3.	1AH23BM003	ANUSHA	Anusha. N
4.	1AH20BM004	BHOOMIKA	
5.	1AH23BM005	CHAITRA GUBBI	
6.	1AH23BM006	CHANDANA P	Chandana P
7.	1AH23BM007	CHANDANA R	Chandana R
8.	1AH23BM009	JEEVAN R	
9.	1AH23BM010	KEVIN	
10.	1AH23BM011	KUSUMA	
11.	1AH23BM012	LISHA S	Lisha
12.	1AH23BM013	TARUN	
13.	1AH23BM014	MEGHNA	
14.	1AH23BM015	MIDHUN	
15.	1AH23BM016	MOHAMMAD ABDUL HASEEB	
16.	1AH23BM017	NAIOMI	Naiomi
17.	1AH23BM018	NANDIKA	Nandika
18.	1AH23BM019	PRANATHI	Pranathi
19.	1AH23BM020	SANJANA	
20.	1AH23BM023	TANUSHA	Tanusha
21.	1AH23BM024	VADDI MEGHANA	
22.	1AH23BM025	VAISENAVI	Vaisenavi.A
23.	1AH23BM027	VIDYA HEGDE	Vidya

Dr. Hariharasudhan
Event Coordinator

12/8/25
Head of the department

9. Student Feedback

1.



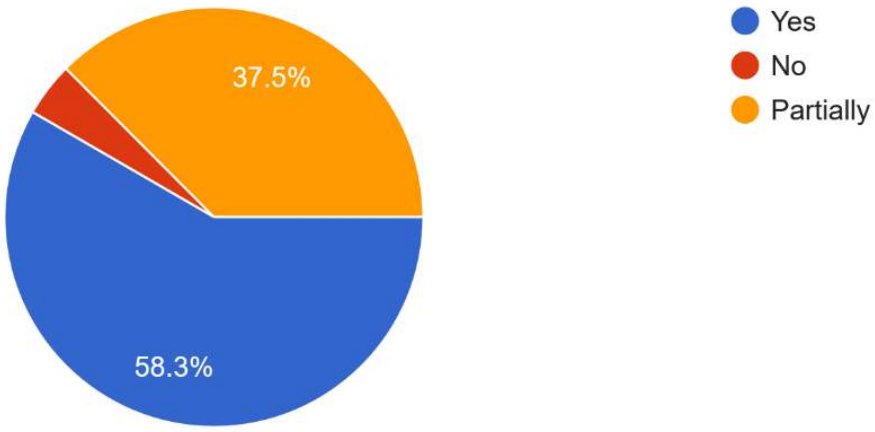
2. What did you find most interesting or valuable in this programme?

1. Everything
2. Understood about the inportance of embedded systems in healthcare Liked their training programs
3. Good
4. Good explanation about embedded system
5. The information regarding embedded systems
6. Embedded systems use
7. Insights about the embedded systems
8. Information about embedded systems and Iot
9. Applications of Iot and Embedded system.
10. About embedded systems
11. About helath care
12. To improve the embedded system
13. It was very interesting
14. focus on practical application and hands-on learning
15. About the course
16. Information about embedded system
17. About embedded systems
18. The understanding about how to face interview and knowledge about AI and embedded.
19. About embedded system and their applications
20. The session was informative I got to know many things
21. Embedded system explanation part
22. To know about ai

3.

Were your expectations met?

24 responses

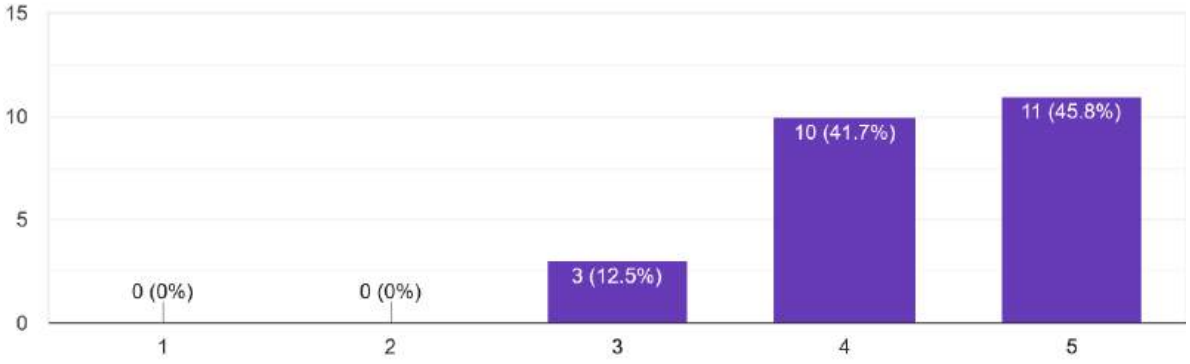


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4.

How would you rate the quality and relevance of the topics covered on IoT and Embedded Systems in health care and communication systems?

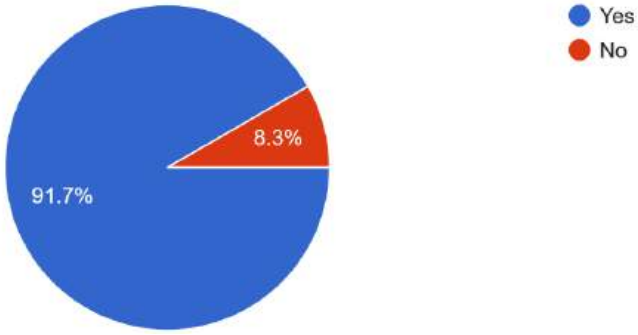
24 responses



5.

Were the learning objectives and session structure clearly communicated? (Multiple choice: Yes / No)

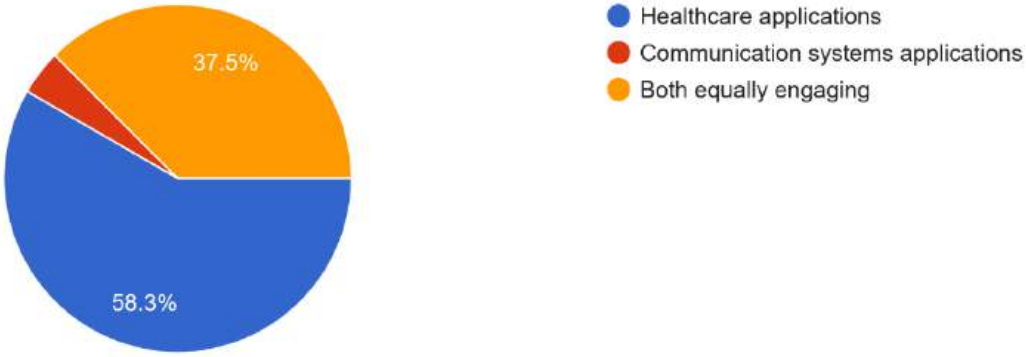
24 responses



6.

Which sub-topic did you find most engaging? (Checkboxes: Health care applications / Communication systems applications / Both equally engaging)

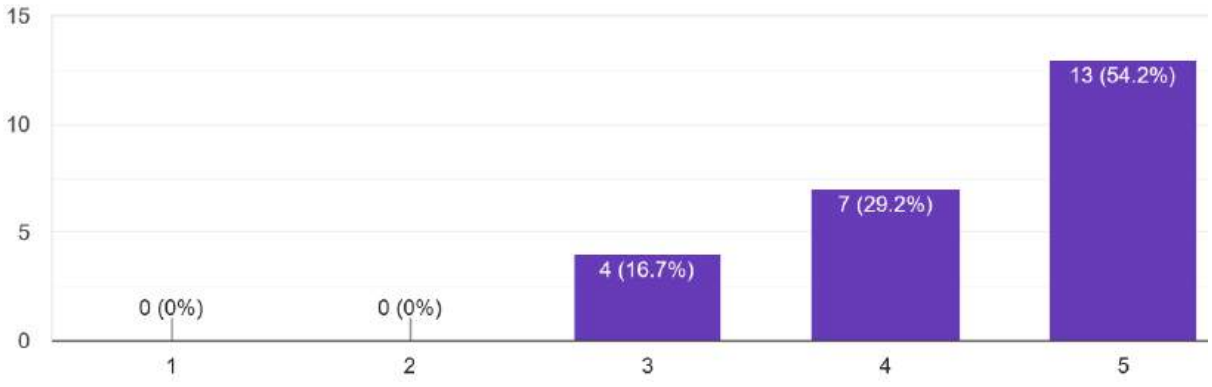
24 responses



7.

How would you rate the coordination and management of the programme?

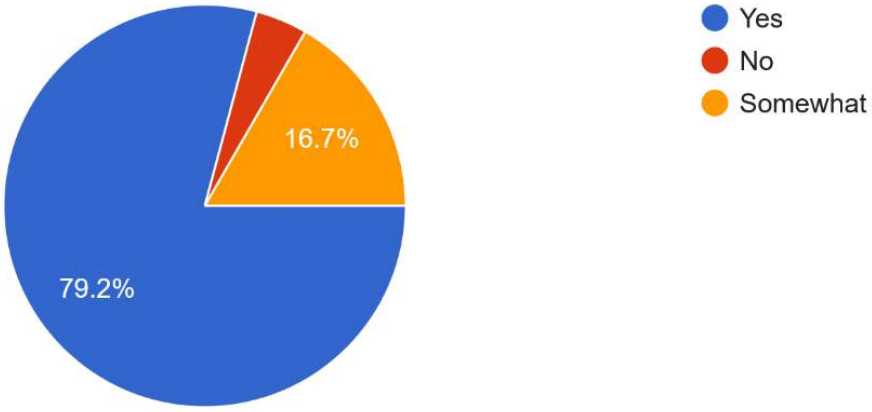
24 responses



8.

Were the resource person's lecture was insightful?

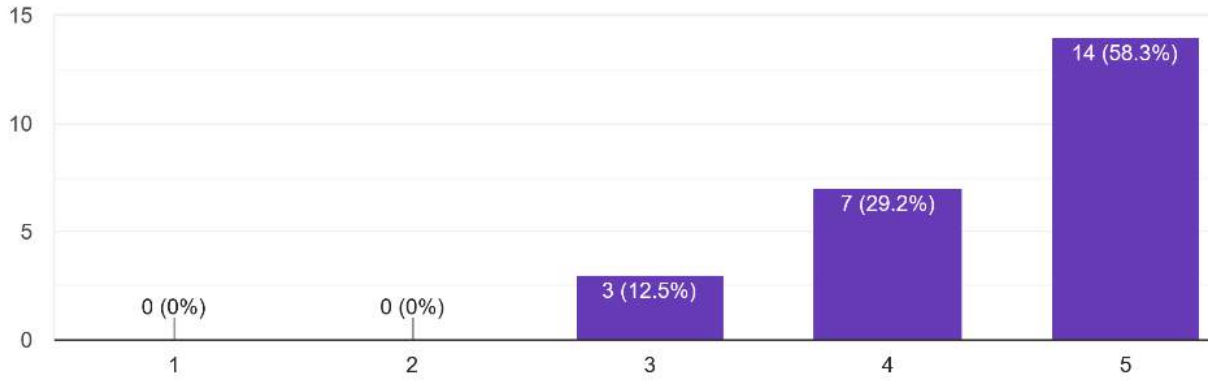
24 responses



9.

How would you rate the presentation skills and clarity of the resource persons?

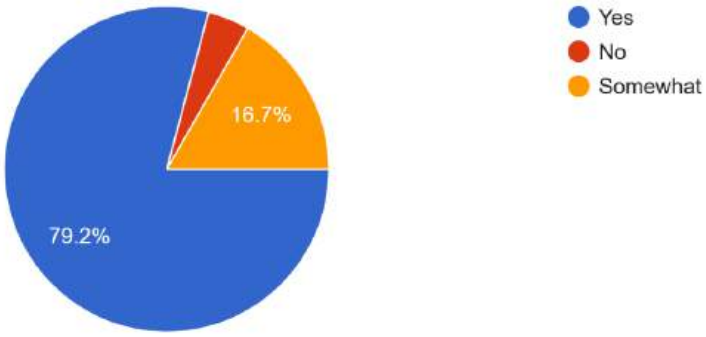
24 responses



10.

Did the sessions provide practical insights /applications into IoT and Embedded systems applications?

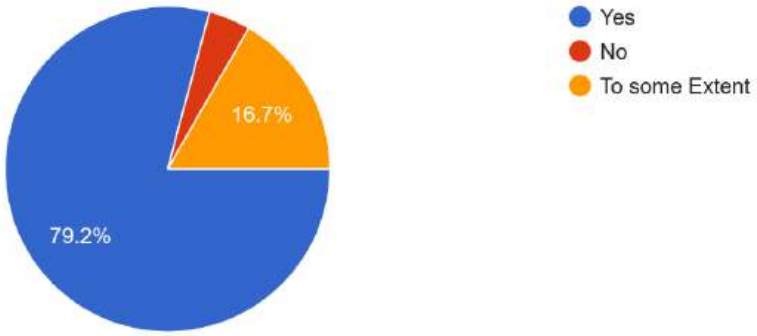
24 responses



11.

Did this programme enhance your understanding of IoT and Embedded Systems?

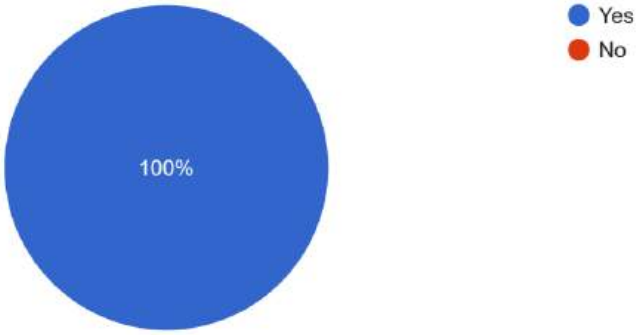
24 responses



12.

Did the programme encourage your interest in exploring IoT and Embedded Systems further?

24 responses



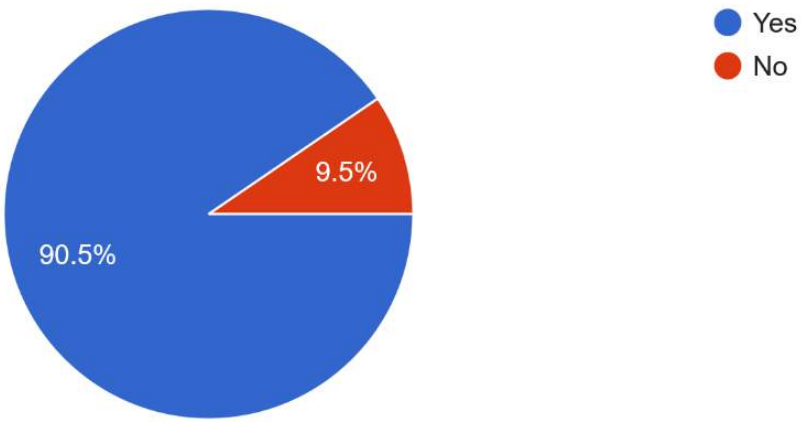
13. What additional topics or activities would you like to see in future programmes?
(14 responses)

1. More about sensors and processors,and maybe abit of codings
2. Complete information regarding healthcare technology
3. More about biomedical relate
4. More details about embedded system
5. About intership
6. Helath care industry
7. Extra knowledge
8. No
9. creative expression, mental well-being, and community engagement
10. About Nanotechnology
11. More about health care
12. More about healthcare and skills
13. About the skill set in presentation slide
14. Give more hands on experience which will help us to develop our skills, more amount of biomedical related so what we can do in the future.give more details about the future education also which will help us.

14.

Would you recommend this resource person again?

21 responses



15. Anyother comments or feed back (10 responses)

1. No
2. None
3. It's very useful, thanks for your guidance.
4. It could be more productive
5. Nothing

Event Coordinator

HOD

27/4/26

Head of Department
Bio Medical Engineering
ACS College of Engineering
Bangalore - 560 074.

Principal

PRINCIPAL
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Kambipura, Mysore Road,
Kengeri Hobli, Bangalore-560074