ATME College of Engineering

Department of Electronics & Communication Engineering

To,

08/03/2025

The Principal,
ATME College of Engineering
Mysuru-28

Dear Sir,

Sub: Request to conduct Technical Talk on "**The future of embedded systems: trends, challenges and opportunities**"

The Department of Electronics & Communication Engineering in association with IETE Student forum is planning to organize a Technical Talk titled "**The future of embedded systems: trends, challenges and opportunities**" on 14th March 2025, starting at 11:15 AM. The estimated budget for the event is Rs.4, 800.00. In this regard, we request you to kindly grant permission to conduct the event and also requesting you to grant the requested budget and oblige.

Objective of the Technical Talk:

1. Scope to future directions of embedded technologies in real-world
2. Importance of Embedded system in view of industry standards.
3. How can we incorporate theory / skills of Embedded System to industry level.
4. Tools that currently being used at Industry level
5. Current trends in R & D
6. Pre requisites for a student to enter into embedded system/ core domain

About the Technical Talk:
The session will feature proficient speakers on solid understanding of embedded systems, their relevance in today's world, and the opportunities and challenges in designing and developing them.

Outcome of the Technical Talk:
Students will gain insights on importance of embedded systems at industry level. Also, they will be able to inter-connect theory and tool- handling skills to today's demand. Further, they will get exposed to the current research and development in the field of Embedded Systems.

Target Audience:
This event is specifically aimed at 6th semester students of Electronics & Communication Engineering.

Resource Person:

1. Pradeep N G
   Hardware & System Practice - Head
   Logycent, Mysore
2. Sudheendra S
   Embedded software –Head
   Logycent, Mysore

Please do needful and oblige.

Thanking you,

ISF Coordinators- Ms. Anupama Shetter

Event Coordinator-
Ms. Mythri R
Mrs. Spoorthi P N

State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs

Provide the details of the additional course/ learning material/ content/ laboratory/ experiments/ projects etc., arising from the gaps identified in -

Sl. No.	Action taken	Date-Month-Year	Relevance to POs, PSOs
1	Technical Talk	14-03-2025	P01,PO2,PO5,PO12,PSO1

8/3/25
Principal

Forwarded to the Honble Chairman for kind approval to sanction Honorarium & other expenditure towards Technical talk on Embedded system for 6th ECE students

Estimated Budget Request

Sl.No.	Particulars	Amount in Rs./-
1	Honorarium for the Guest	4,000.00
2	Miscellaneous (Hospitality, Bouquet)	800.00
	Total	**4,800.00**

The Budget detailed for the Academic Year 2024-25

Department Budget	**ECE (ISF Acc.).**	**Remarks from the accounts**
Budget Year	**2024-25**	✓
Budget Code	**304.03.00**	✓
Budget Header	**IV. Teaching, Research & Extension Activities.**	✓
	Professional Bodies like societies/chapters (ISF)	✓
Budget Approved Amount	**₹ 97, 375/-**	
Spent so far	**₹ 42, 275/-**	1,09,036 ✓
Balance Amount	**₹ 55, 100/-**	− 11,661 ✓
Amount Requested	**₹ 4,800/-**	

HOD

HOD
Department of Electronics & Communication Engineering
ATME College of Engineering
Mysuru-570028

for 08/03/2025
Accounts Officer
(S.A.A)

08/3/25
Principal

Ref no :- The future of Embedded Systems :- (Technical talk)

Ref. No.: ATME/ ECE/ AY 2024-25/009 Date: 11-03-2025

To,

Pradeep N G
Hardware and System practice – Head
Logycent Mysuru

Dear Pradeep N G,

I hope this letter finds you well. On behalf of the Department of Electronics and Communication at ATME College of Engineering, Mysuru, in association with ISF, I am delighted to extend an invitation to you to be the distinguished resource person for our upcoming technical talk on "**The Future of Embedded Systems: Trends, Challenges and Opportunities** "

Event Details:
Date: on 14th March 2025,
Time: 10:00 AM.
Venue: Room No. 401(Admin Block)

We believe that our students will gain insights on importance of Embedded Systems at industry level also they will be able to interconnect theory and tool handling skills to today's demand. Further, they will get introduced to the current research and developments in the field of Embedded Systems. These fields can enhance their academic and professional journeys. We highly value your contribution and look forward to the prospect of your involvement in making this technical talk a success.

Thank you for considering our invitation. We are eager to have you with us and share your expertise with our students.

Kind regards,

Dr. Prathibha M K
HOD & Associate Professor,
Dept. of ECE,
ATMECE, Mysuru

Ref. No.: ATME/ ECE/ AY 2024-25/010 Date: 11-03-2025

To,

Sudheendra S
Embedded Software – Head
Logycent Mysuru

Dear Sudheendra S,

I hope this letter finds you well. On behalf of the Department of Electronics and Communication at ATME College of Engineering, Mysuru, in association with ISF, I am delighted to extend an invitation to you to be the distinguished resource person for our upcoming technical talk on "**The Future of Embedded Systems: Trends, Challenges and Opportunities** "

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Thank you for considering our invitation. We are eager to have you with us and share your expertise with our students.

Kind regards,

Dr. Prathibha M K
HOD & Associate Professor,
Dept. of ECE,
ATMECE, Mysuru

From: Pradeep N G <Pradeep.NG@Logycent.com>
Sent: Wednesday, March 12, 2025 2:44:57 PM
To: Dr. PRATHIBA M K <Dr.PRATHIBAMK_EC@atme.edu.in>
Subject: Re: Invitation to technical talk

Hi Dr. Prathibha,
Thanks for the invite. Surely will be present for the technical talk on 14-Mar-25.

Thanks
Pradeep NG

Hide message history

From: Sudheendra M S <Sudheendra.MS@Logycent.com>
Sent: Thursday, March 13, 2025 11:42:21 AM
To: Dr. PRATHIBA M K <Dr.PRATHIBAMK_EC@atme.edu.in>
Subject: Re: Invitation for Technical talk

Hi Prathibha

Thank you for reaching out and for the kind invitation. I am honored to be considered for delivering a technical talk. Looking forward to interacting with the students.

Regards
- Sudhee

Hide message history

ATME College of Engineering

Department of Electronics & Communication Engineering

6th Sem student Attendance list for Technical talk AY-2024-2025 on 14/03/2025 at 10:00 AM 106

Sl. No.	USN	Student Names	Signature	Sl. No.	USN	Student Names	Signature
1	4AD22EC001	ABHISHEK S	Abhishek.	19	4AD22EC020	DUSHYANTH P	
2	4AD22EC002	AISWARYA K N		20	4AD22EC021	GAGAN C	
3	4AD22EC003	AKASH L		21	4AD22EC022	GAGANA S L	
4	4AD22EC004	ANANYA A		22	4AD22EC023	GAGANASHREE M	
5	4AD22EC005	ANKITHA K C	Ankithake	23	4AD22EC024	GANAVI B N	
6	4AD22EC006	ANUSHA H R		24	4AD22EC025	GANESH N	
7	4AD22EC007	ANUSHREE	Anushree	25	4AD22EC026	GEETHA BAI	
8	4AD22EC008	ANUSHREE G K		26	4AD22EC027	GURU DARSHAN M B	
9	4AD22EC009	APOORVA M S	Apoorva	27	4AD22EC028	HARSHA M K	
10	4AD22EC010	ASHWINI N		28	4AD22EC029	HARSHA M S	
11	4AD22EC011	B N HARSHITH	Harshith. B. N	29	4AD22EC030	HARSHA VASAPPA SHATAVAJI	
12	4AD22EC012	BALAJI A V	Balaji AV	30	4AD22EC031	HARSHITHA S	
13	4AD22EC013	BHANU A P	Bhanu ap.	31	4AD22EC032	HEMANTH KUMAR M S	
14	4AD22EC014	BHARATH K		32	4AD22EC033	HEMASHREE G M	
15	4AD22EC015	BHOOMIKA V	Bhoomika. V	33	4AD22EC034	HIMADRUTHI Y D	
16	4AD22EC017	CHETHAN C		34	4AD22EC035	INCHARA H M	
17	4AD22EC018	DHANUSH C		35	4AD22EC036	JAYANTH S	
18	4AD22EC019	DHARANYA R		36	4AD22EC037	JEEVAN L S	

13 14

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College of Engineering

Department of Electronics & Communication Engineering

Sl. No.	USN	Student Names	Signature	Sl. No.	USN	Student Names	Signature
37	4AD22EC038	K SOUMYA		56	4AD22EC058	NANDAN A K	
38	4AD22EC039	KARTHIK M		57	4AD22EC059	NANDAN G	
39	4AD22EC040	KOUSTUBH N		58	4AD22EC060	NAVYA SHREE B R	
40	4AD22EC041	KRUTHI		59	4AD22EC061	NAYANA	
41	4AD22EC042	KUSUM C		60	4AD22EC062	NAYANA M B	
42	4AD22EC043	KUSUMA D R		61	4AD22EC063	NIDHI ARS I J	
43	4AD22EC044	LAKSHMI A		62	4AD22EC064	NISARGA D	
44	4AD22EC045	LIKHITHA B		63	4AD22EC065	NISARGA S	
45	4AD22EC047	M UDAY		64	4AD22EC066	NISARGA S GOWDA	
46	4AD22EC048	MANASA G		65	4AD22EC068	NITHYAANDA C	
47	4AD22EC049	MANASA N		66	4AD22EC069	P D DRUTHI	
48	4AD22EC050	MANJU PRASAD H S		67	4AD22EC070	PAVANI N	
49	4AD22EC051	MANOJ KUMAR T R		68	4AD22EC071	POORVITHA S	
50	4AD22EC052	MEGHANA T		69	4AD22EC072	PRAGNA M S	
51	4AD22EC053	MOHAN BABU C		70	4AD22EC073	PRAJNA D P	
52	4AD22EC054	MOHAN C		71	4AD22EC074	PRAJWAL	
53	4AD22EC055	MOULYA B N		72	4AD22EC075	PRAJWAL G T	
54	4AD22EC056	MRUDULA M GOWDA		73	4AD22EC076	PRIYA M	
55	4AD22EC057	MUZAMMIL AHMED		74	4AD22EC077	PUNITH K	

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Department of Electronics & Communication Engineering

Sl. No.	USN	Student Names	Signature	Sl. No.	USN	Student Names	Signature
75	4AD22EC078	PUNYA K B		94	4AD22EC098	SHASHANK R P	
76	4AD22EC079	PUNYASHREE B		95	4AD22EC100	SHEETAL TIWARI	
77	4AD22EC080	RACHANA S		96	4AD22EC101	SHREYAS SHRIDHAR KULKARNI	
78	4AD22EC082	RAKSHITHA C		97	4AD22EC102	SIDDARAJU K	
79	4AD22EC083	RAKSHITHA R		98	4AD22EC103	SINDHU T C	
80	4AD22EC084	RAKSHITHA V M		99	4AD22EC104	SNEHA G	
81	4AD22EC085	RAMYA M S		100	4AD22EC105	SONIKA T P	
82	4AD22EC086	RANJITHA H B		101	4AD22EC106	SONU C	
83	4AD22EC087	RAVISHANKAR B M		102	4AD22EC107	SPANDANA K G	
84	4AD22EC088	REETHU V		103	4AD22EC108	SREEDHAR R	
85	4AD22EC089	RIMSHA ARA		104	4AD22EC109	SUHAS BHARADWAJ K H	
86	4AD22EC090	RISHITHA M J		105	4AD22EC110	SUKESH KUMAR U	
87	4AD22EC091	ROHITH K		106	4AD22EC111	SUYOG GOWDA A U	
88	4AD22EC092	RUCHITHA H U		107	4AD22EC113	SYED NIHAAL HADI	
89	4AD22EC093	S MANJUNATH		108	4AD22EC114	TEJASWINI D	
90	4AD22EC094	SACHIN B K		109	4AD22EC115	TEJASWINI G J	
91	4AD22EC095	SANCHITHA S		110	4AD22EC116	TOUHEED ALMA K	
92	4AD22EC096	SANJAY D P		111	4AD22EC117	UMME KULSOOM RIYAZ	
93	4AD22EC097	SHAIKH SAQIB		112	4AD22EC118	UTTAM JAIN P	

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Department of Electronics & Communication Engineering

Sl. No.	USN	Student Names	Signature	Sl. No.	USN	Student Names	Signature
113	4AD22EC119	VARSHA H S		124	4AD23EC403	JEEVAN G M	
114	4AD22EC120	VARSHINI K		125	4AD23EC404	JEEVAN H V	
115	4AD22EC121	VARSHITHA N R		126	4AD23EC405	MADAN H B	
116	4AD22EC122	VINEETH S SHASTRY		127	4AD23EC407	ROHITH A M	
117	4AD22EC123	VISHNUURS K V		128	4AD23EC408	SANJAY S	
118	4AD22EC124	YASHWANTH R		129	4AD23EC409	SHRINATH D POL	
119	4AD22EC125	SURYA KUMAR P		130	4AD23EC410	SPOORTHI C S	
120	4AD22EC126	CHANDRASHEKAR B		131	4AD23EC411	SUCHITRA J	
121	4AD23EC400	ARUN N		132	4AD23EC412	SUJITH KUMAR K C	
122	4AD23EC401	DARSHAN T R		133	4AD23EC413	VINAY K	
123	4AD23EC402	IZHARUDDIN SHARIFF					

ATME
College of Engineering

ISO 9001:2015

VOUCHER

No. 1326

Date : 14/03/2025

Name of Work : Technical Talk

Head of Account :

Name of the Party : Mr. Sudheendra S.

Received with thanks a sum of Rs. .....(Rupees.....

.....) as advance / part / full payment towards TT - The future of Embedded Systems : trends, challenges & opportunities

By Cash / Cheque no.

For, ATME

Receiver's Signature

Authorised Signature

ATME
College of Engineering

ISO 9001:2015

VOUCHER

No. 1327

Date : 14/03/2025

Name of Work : Technical Talk

Head of Account :

Name of the Party : Mr. Pradeep N G

Received with thanks a sum of Rs. .....(Rupees.....

.....) as advance / part / full payment towards TT - The future of Embedded Systems : trends, challenges and opportunities

By Cash / Cheque no.

For, ATME

Receiver's Signature

Authorised Signature

Bank details

NAME : Sudheendra MS

ACC. NO: 056001502512

IFSC : ICIC0000560

BANK : ICICI Bank

BRANCH: Kukrempunagara Branch

Bank details

NAME : PRADEEP. N. G

ACC NO : 625501508919

IFSC : ICIC0006255

BANK : ICICI Main Branch

BRANCH : —"—

LOYAL WORLD CLASSIC

#1, T.K.LAYOUT,
MARUTHI TEMPLE F
MYSORE - 570 0
Phone No.2543729/ 38
GSTIN :29AEVPM6037L1ZM

Tax Invoice

Bill No : 217585 Bill Time : 16:06
Date : 13/03/2025

No	Description	Qty	Rate	Value
1	CORNITOS CASH EWS ROST PH 25G HSN Code : 20081910	1.000	49.00	49.

Total : **49.00**

GST %	Taxable Value	SGST Amount	CGST Amount	CESS
12%	43.75	2.63	2.63	0.00
Total:	43.75	2.63	2.63	0.00

Total Quantity : 1.000
Total Items : 1

Cash Received with Thanks

UY YOUR WORLD, AT LOYAL WORLD
Goods Once Sold Shalln't Be Taken Back.

E-Payment 49.00
User Name : AISHU
Node Name : COUNTER1

ಶ್ರೀ ಮಹದೇಶ್ವರ ಹೋಂ ನೀಡ್ಸ್

#45/1 ಮಹದೇಶ್ವರ ಕಾಂಪ್ಲೆಕ್ಸ್ ಡಾ.ರಾಜ್ ಕುಮಾರ್ ರೋಡ್, ನಿಯರ್ ಟೆರೇಸಿಯನ್ ಕಾಲೇಜ್ ಸರ್ಕಲ್ ಯರಗನಹಳ್ಳಿ ಮೈಸೂರ್-29
Mobile No:8660506970,8660508443
GSTIN:29BPLPA6328C1Z1

Cash

Bill No : 022/23153490 Date : 13-03-2025
Counter : CLIENT-2 Time: 5:53PM

S.N	PRODUCT	QTY	MRP	RATE	AMT	HSN
1	Unibic pista badam biscuit 30Rs	1.000	30.00	29.00	29.00	1905

TOTAL ITEMS : 1.00

TOTAL : 29.00

NET AMOUNT : 29.00

GST SUMMARY - DETAILS :

TAX %	Taxable Val	SGST	CGST	Total Amt
18	24.58	2.21	2.21	29.00

Given Amount : 29.00
Balance Amount : 0.00
TODAY SAVINGS : RS. 1.00

***Goods once sold cannot be taken back or exchanged.**
"ಧನ್ಯವಾದಗಳು"

Responses Overview

Active

Responses	Average Time	Duration
84	02:31	5 Days

1. Name

84
Responses

Latest Responses
"Sindhu tc"
"Spandana K G"
"S MANJUNATH"
...

10 respondents (12%) answered S for this question.

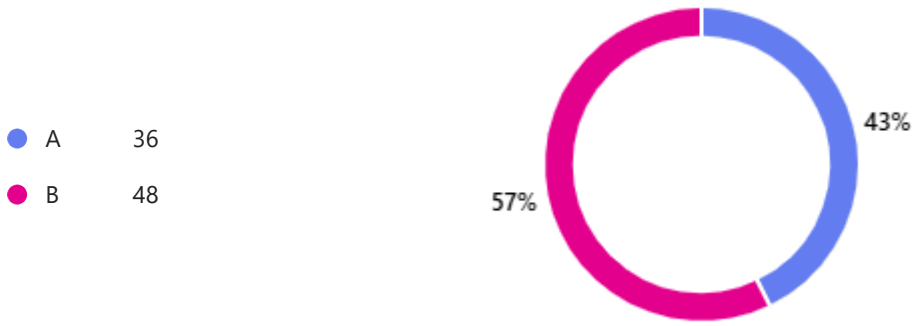
2. USN

84
Responses

Latest Responses
"4AD22EC103"
"4AD22EC107"
"4AD22EC093"
• • •

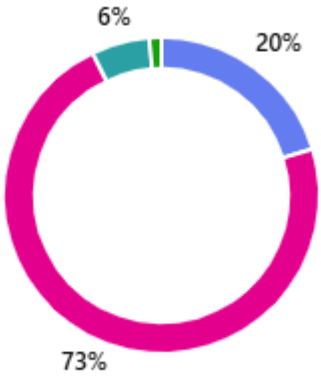
1 respondents (1%) answered 4AD22EC072 for this question.

3. Sec

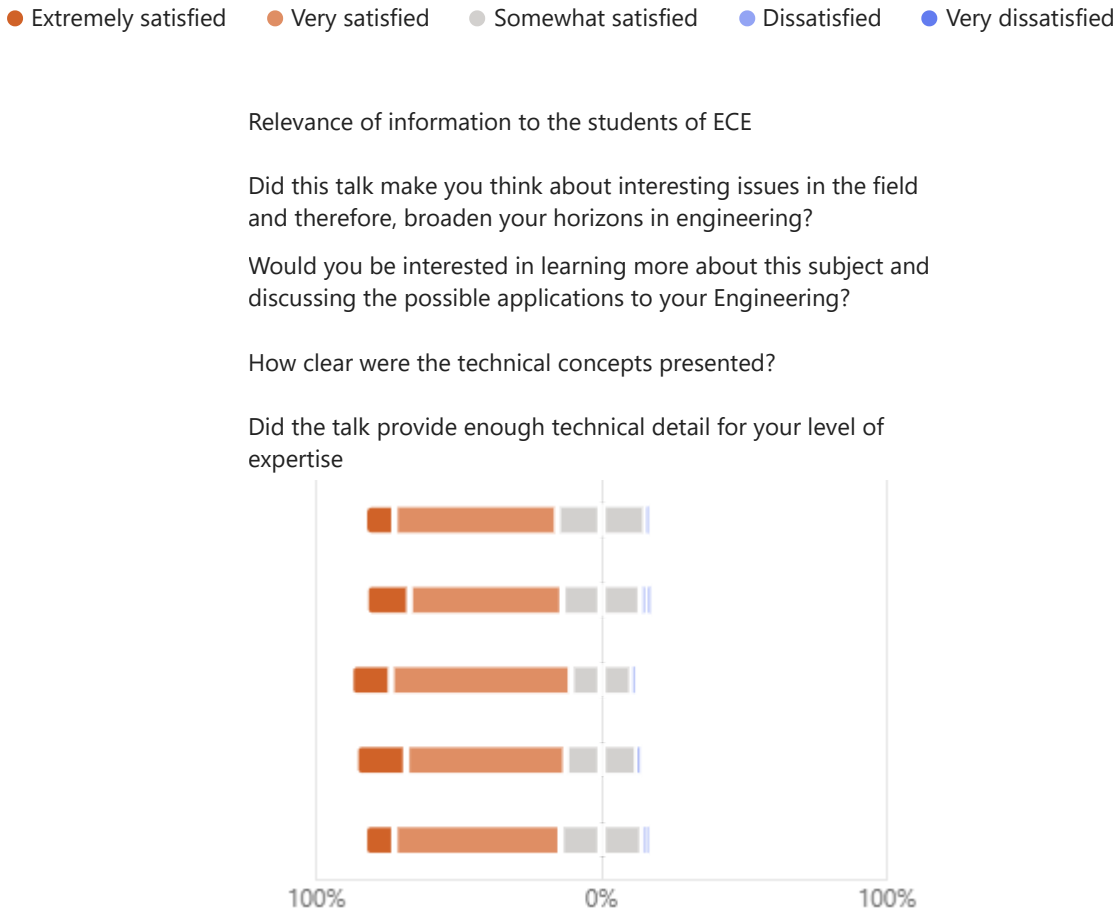


4. Overall, how satisfied were you with the event?

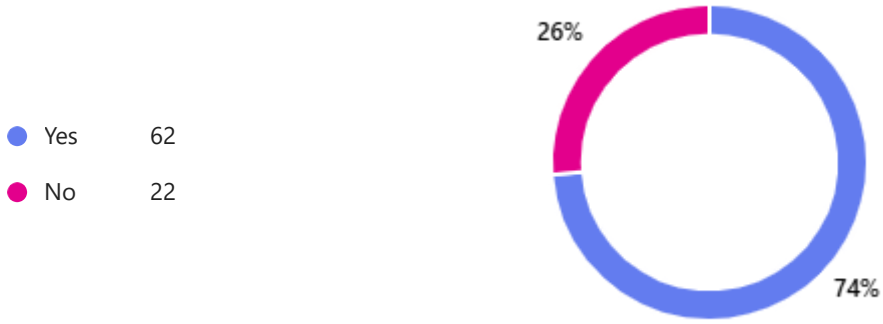
Very satisfied	17
Satisfied	61
Neither satisfied nor dissatisfied	5
Dissatisfied	0
Very dissatisfied	1



5. Please rate your satisfaction level with the following aspects of our event.



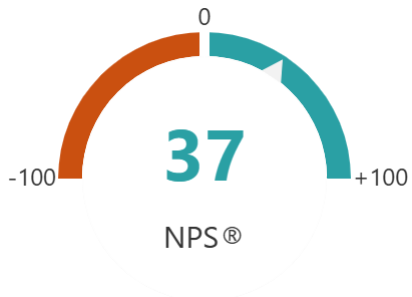
6. What aspects of the presentation could be improved for better technical clarity?



7. Did the speaker address your technical questions adequately?

8. How likely are you to recommend this event to your juniors?

Promoters	40
Passives	35
Detractors	9

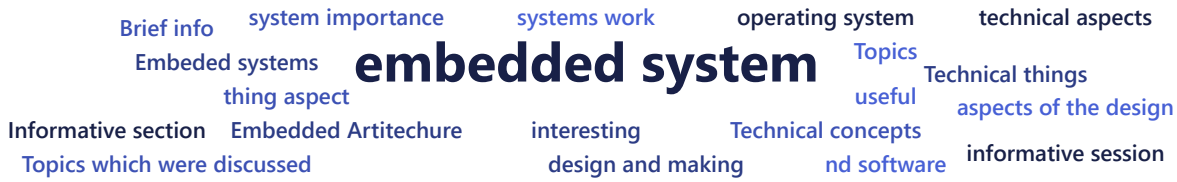


9. Please briefly describe what was interesting, important or relevant to your studies

74
Responses

Latest Responses
"Coding"
".."
""
• • •

14 respondents (17%) answered embedded system for this question. Update



10. What other topics would you like to learn about, in the area covered by the Technical Talk?

74
Responses

Latest Responses
"I like to learn the Software technics"
"About Cores"
""
• • •

13 respondents (15%) answered Embedded system for this question. ⟳ Update

11. Do you have any suggestions for us to improve future events?

73
Responses

Latest Responses
"Nothing"
"No"
""
• • •

5 respondents (6%) answered Nil for this question. ⟳ Update

Report on
Technical talk "The Future of Embedded System: Trends, Challenges & Opportunities"

Date: 14th March 2025

Organized by

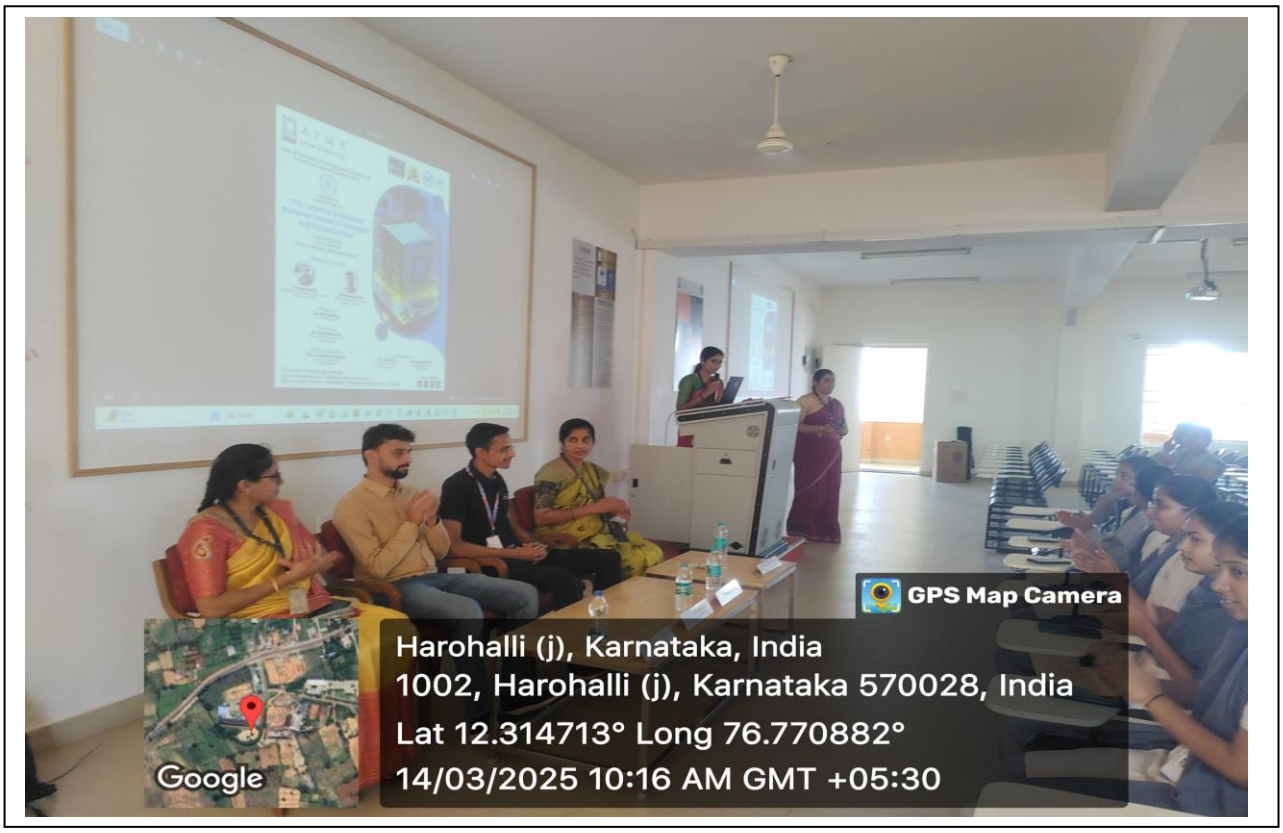
Department of Electronics & Communication Engineering

In association with IETE Student Forum

ATME College of Engineering, Mysuru

The Department of Electronics and Communication Engineering in association with IETE Student forum had organized a technical talk on "The Future of Embedded System: Trends, Challenges & Opportunities" on 14th March 2025 to the students of 6th Sem in Seminar Hall of the Department.

Mr. Pradeep N G and Mr. Sudheendra S, Logycent Musuru was the Guest Speaker.



About the Technnical Talk.

Embedded systems have become an integral part of modern technology, and their importance is increasing day by day. These systems are designed to perform specific tasks and are embedded in everyday devices, making them intelligent and interactive.

From smartphones to medical devices, embedded systems have revolutionized the way we interact with technology. The history of embedded systems dates back to the 1960s, and over time, they have evolved and become more sophisticated, smaller, and more efficient.

As technology advances, it's important to understand future trends and predictions in the field of embedded systems to stay ahead of the curve and take advantage of the future scope of embedded systems.

Students will explore what embedded systems are, their importance, their evolution over time, and why understanding their future trends and predictions is crucial for anyone interested in the field. Talk also covered how to address these future trends and enable engineers to build a long term career.

Outcome.

Students were able to understand future scope of embedded systems is vast and promising, with numerous trends and predictions likely to shape the industry. Key points discussed in the talk includes increased demand for low-power, high-performance devices, advancements in connectivity and communication technology,

Further, challenges to be addressed in the industry, such as balancing performance with energy efficiency and ensuring security and privacy, there are also significant opportunities for innovation and growth was conversed. Having said all these opportunities, it will be futile if students don't clearly understand the need to skill engineers and make them employable. Hence the idea of embedded engineers comes into picture. By learning this long term gap can be resolved. The upcoming of embedded engineers is that they assist in the design, development, and maintenance of embedded systems in products. Software/Hardware development is broadly a part of the job. Nevertheless, students were able to understand that there is a need of thorough understanding of complete embedded systems.

Glimpses of Event

Event Report Prepared by

Ms. Mythri R and Mrs. Spoorthi PN

Assistant Professor

Event Coordinator.

To **Date: 18-03-2025**

The Principal

ATMECE, Mysuru

Through

The HOD

Dept. of ECE

ATMECE, Mysuru

Subject: Regarding the submission of balance sheet for technical talk on "The Future of Embedded System: Trends, Challenges & Opportunities"

With respect to above subject, the Department of Electronics and Communication Engineering in association with IETE Student forum had organized a technical talk on "The Future of Embedded System: Trends, Challenges & Opportunities" on 14th March 2025 from 10:00 AM to 11:30 AM , to the students of 6th Sem in college Seminar Hall. The total amount spent for the event is Rs. . the balance sheet is enclosed for your kind reference.

Thanking you

Event Coordinators

Encl: Detailed balanced sheet

Balance Sheet of Technical Talk on "The Future of Embedded System: Trends, Challenges & Opportunities"

Sl. NO	Particulars	Bill No./ Acc No.	Amount spent in Rs.
1	Snacks	01	78.00
2	Honorarium	02	4000.00
	Total		**4078.00**

NEFT Details:

4. Account Details of Resource Person:

Mr. Pradeep N G

Bank Name : ICICI Bank

Acc no.:625501508919

IFSC: ICIC0006255

Mr. Sudheendra S

Bank Name : ICICI Bank

Acc no. : 056001502512

IFSC: ICIC0000560