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## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

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### **Vision**

- Producing competent engineers with innovative ideas to meet the global needs and standards.

### **Mission**

- **M1.** To produce graduates with technical expertise, professional attitude & ethical values.
- **M2.** To reform the potency of Engineering through exploration-based learning.
- **M3.** To create a passion amongst students for contributing to research by providing industry-oriented training
- **M4.** To inculcate in the graduates, the thirst for self-learning & guide them to obtain knowledge in their chosen field.

### **About the Department**



**Dr. A.Poonguzhali**

#### **Professor & Head of the Dept**

Department of Electronics and Communication Engineering was established at this institution in 1997. The department is AICTE approved and permanently affiliated to VTU and accredited by NAAC and NBA. The Department Offers UG courses. Further, it is recognized as “Research Centre” by VTU. The department is strengthened with qualified Doctorates, Professors, Assoc.Professors, Asst. Professors and technical staffs. Apart from the academic events department also oversees the overall development activities. The students are being provided with training /certification programs, industrial visits, periodic technical talks, workshops, conferences, empowering employability skills.

## Department Activities

### Workshop / Seminar / Conference/ Technical Talks

1. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru conducted a four-days workshop on "Fundamentals to Metamaterials: A Practical Journey in Antenna Design" from 16/09/2025 to 20/09/2025 for third year ECE students. Dr. Vinoth M., Technical Advisor, Hertzian Morphix Labs, Valasaravakkam, Chennai, was invited as the Chief Guest for this workshop.



2. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru conducted a two-days workshop on "Drone Dynamics: Mechanical design, electronics, Intelligent systems" from 4/12/2025-5/12/2025 for second year ECE students. The resource person was Mr.P.Surendar and his team.



3. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering has organized a Technical Talk on IEEEExtreme 19.0 on 09/10/2025. The resource person was Dr.S.Brindha, Sri sairam college of engineering. The co-ordinator Dr.P.Narmatha and ECE HOD Dr.A.Poonguzhali accompanied the students.



## Paper Publications

1. Dr. A. Poonguzhali has published a paper titled "Autonomous animal intrusion detection & repelling drone" ISSN: 2393-9842, Volume 12 Issue 12, International Research Journal of Computer Science (IRJCS).
2. Dr. S. Jayakumar has published a paper titled "Real Time Traffic Congestion Management With AI and Arduino" ISSN: 2349-7017, Volume 11, Issue 08, International Journal of Innovative research in Information Security (IJIRIS).
3. Dr. S. Jayakumar has published a paper titled "Machine Learning-Based Severity of Critical line for Power System Security Enhancement with zip loads", ISSN: 2348-8379, Volume 12, Issue 08, SSRG International Journal of Electrical and Electronics Engineering.
4. Dr. S. Jayakumar has published a paper titled "SwinRODNet Swin Transformer-Based Remote Sensing Object Detection Network", ISSN: 2468-4376, Volume 10, Journal of Information Systems Engineering and Management.
5. Dr. Anitha Velu has published a paper titled "IoT based Real-Time Smart Kitchen Automation & Monitoring System Prototyping with Arduino", ISSN: 979-8-3315-9420-6, Volume: 02, Issue: 01, 2025 International Conference on Sustainable Communication Networks and Application (ICSCN).
6. Dr. Jayakumar. S has published a paper titled "progressive Cyclical Convolution Neural network for embedded Vision based Internet of Things using VLSI" ISSN: 1573-1979, Volume: 125, Issue: 46, Analog integrated Circuits and Signal Processing (2025).
7. Dr. Narmatha P has published a paper titled "Self-Calibrating Mixed-Signal Analog Front-end with Adaptive Bias for Multimodal Biopotential sensing", ISSN: 2582-1458, Volume: 7, Issue: 01, VLSI Research and systems research article.
8. Dr. Ahila A has published a paper titled "Ensemble Deep Learning Approaches for Skin cancer Detection & Prediction" ISSN: 978-981-96-2329-7, Volume: 1234, International Conference on Data Analytics and Insights.
9. Dr. Anitha Velu has published a paper titled "Ensemble Deep Learning Approaches for Skin cancer Detection & Prediction" ISSN: 978-981-96-2329-7, Volume: 1234, International Conference on Data Analytics and Insights.
10. Prof. Savitha HS has published a paper titled "Automated Hydroponic System for limited Crop Cultivation using Mobile Application" ISSN: 2619-0990, Volume: 25, Issue: 12.
11. Prof. Mohanathi K has published a paper titled "IoT Driven water Intelligence System", ISSN: 2394-0697, Volume: 11, Issue: 08, International Journal of Innovative research in Information Security (IJIRIS).
12. Prof. Deepika has published a paper titled "Chindi Machine-A textile Waste Recycling Innovation", ISSN: 2349-7017, Volume: 11, Issue: 11, International Journal of Innovative research in Information Security (IJIRIS).
13. Dr. A. Arivarasi has published a paper titled "An Investigation of Deep Learning methods Driven to Predict Knee Joint kinematics", ISSN: 979-8-3315-5503-0, part number: IEEE Explore part Number: CFP25V66-ART.
14. Dr. Anitha Velu has published a paper titled "Arduino Based Solar Umbrella for Agricultural Application", ISSN: 979-8-3315-3539-1, The paper is part of the 2025 IEEE International Conference on Compute, Control, Network & Photonics.
15. Dr. A. Arivarasi has published a paper titled "Arduino Based Solar Umbrella for Agricultural Application", ISSN: 979-8-3315-3539-1, The paper is part of the 2025 IEEE International Conference on Compute, Control, Network & Photonics.
16. Prof. J. Hema Shubraja has published a paper titled "Arduino Based Solar Umbrella for Agricultural Application". ISSN: 979-8-3315-3539-1. The paper is part of the 2025 IEEE International Conference on Compute, Control, Network & Photonics.

## FDP's Attended

SL NO	NAME	FDP NAME	DATE	NO OF DAYS	NAME OF THE INSTITUTE
1	Dr.A.Poonguzhali	Conference Organizers Education Workshop	16/02/2026-23/02/2026	4 Days	IEEE Mangalore Subsection
2	Dr.A.Poonguzhali	AI and IOT in Signal Processing and Communication Systems	26/11/2025	5 Days	Kings College of Engineering, Pudukottai
3	Dr.A.Poonguzhali	Crafting Research Excellence	04/9/2025-06/09/2025	3 days	IEEE WiE Bangalore section
4	Dr.A.Poonguzhali	Introduction to copyright-First Perspective	12/12/2025-19/12/2025	8 Days	Tunip Innovations
5	Dr.A.Poonguzhali	Google's Gemini Academy	29/09/2025	1 Day	Google Gemini Academy
6	Dr.A.Poonguzhali	AI-Driven Embedded Product Development	19/01/2026-02/02/2026	12 Days	Sense Semiconductor & IT solution pvt.ltd
7	Dr.A.Poonguzhali	Agentic AI for smart healthcare and medical technologies	01/09/2025-05/09/2025	6 Days	KLE Technological University
8	Dr.P.Hosanna Princey	5G & Beyond: Bridging Tomorrow	28/07/2025-01/09/2025	5 Days	Nokia Bangalore
9	Dr.S.Jaykumar	Educate the Educator	28/02/2026	1 Day	Sri Sairam College of Engineering Bangalore
10	Dr.S.Jaykumar	Google's Gemini Academy	29/09/2025	1 Day	Google's Gemini Academy
11	DR.Ahila.A	5G & Beyond: Bridging Tomorrow	28/07/2025-01/09/2025	5 Days	Nokia Bangalore
12	Dr.Anitha Velu	Google's Gemini Academy	29/09/2025	1 Day	Google's Gemini Academy
13	Dr.A.Arivarasi	Google's Gemini Academy	29/09/2025	1 Day	Google's Gemini Academy
14	Dr.A.Arivarasi	Semiconductor for Smart systems	06/10/2025-11/10/2025	6 Days	Shree Sathyam College of Engineering and Technology
15	Dr.A.Arivarasi	Cyber Security and Privacy	Jul-oct 2025	12 Weeks	NPTEL-AICTE faculty development programme
16	Dr.A.Arivarasi	Privacy and Security in Online Social Media	Jul-oct 2025	12 Weeks	NPTEL Online Certification
17	Dr.A.Arivarasi	Technical communication for Engineers	Jul-Aug 2025	4 Weeks	NPTEL-AICTE faculty development programme
18	Prof.Raja G V	Google's Gemini Academy	29/09/2025	1 Day	Google's Gemini Academy
19	Prof.Raja G V	AI-Driven Embedded Product Development	19/01/2026-02/02/2026	12 Days	Sense Semiconductor & IT solution pvt.ltd

20	Prof.Savitha H S	Sim-to-Fab Techniques for 5G and mmWave Antennas	18/02/2026-20/02/2026	3 Days	School of electrical engineering and school of mechanical engineering
21	Prof.Savitha H S	Introduction to AI and its Application	30/09/2025	1 Day	Bangalore Institute of Technology
22	Prof.Savitha H S	Google's Gemini Academy	29/09/2025	1 Day	Google's Gemini Academy
23	Prof.Santosh Kumar N	Generative & Agentic AI : Tools and Demo's	16/02/2026-21/02/2026	6 Days	Sardar Vallabhbhai National Institute of Technology
24	Prof.Geetha S	Introduction to AI and its Application	30/09/2025	1 Day	Bangalore Institute of Technology
25	Prof.Geetha S	TESSOLVE Semiconductor Pvt.Ltd	27/09/2025	1 Day	Rotary Banglore South-vocational services avenue and silicon microsystems
26	Prof.Geetha S	Cyber security	05/09/2025-07/10/2025	3 Days	Hebesec Technologies Pvt.Ltd
27	Prof.Geetha S	Introduction to Machine Learning	Jul-oct 2025	12 Weeks	NPTEL-Online Certification
28	Prof.Hema Shubraja J	TESSOLVE Semiconductor Pvt.Ltd	27/09/2025	12 weeks	Rotary Banglore South-vocational services avenue and silicon microsystems
29	Prof.Hema Shubraja J	Emerging trends in digital twin technology for hydrogen production, storage and transport	15/12/2025-20/12/2025	6 Days	Krishnasamy College of engineering and technology
30	Prof.Mohanthi K	Google's Gemini Academy	29/09/2025	1 Day	Google's Gemini Academy

## Patent Filed

SI No	Design No	Status of Patent (Published / Granted)	Inventor's Name	Title of the Patent	Applicant's Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)
1	202541067191 A	Published	Prof.Mohanthi K	Machine learning-driven nano technology based biomedical devices for cancer diagnostics and therapeutic applications	Prof.Mohanthi K	15/07/2025	25/07/2025
2	6486468	Published	Prof.Raja G V	5G base station antenna with optimized panel structure	Prof.Raja G V	17/11/2025	24/11/2025

## MOU Initiatives

Organization with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise
Hertzian Morphix Labs	2025	3 Years	1. Training for Students 2. Faculty Development 3. Provides internship

## Students Papers presentation

Name of the Student	Venue	Date
Swati Eddapure	Hindusthan Institute of technology, Coimbatore	10/09/2025-12/09/2025
Chirith kumar	Sri Sairam College of Engineering	27/11/2025
Chirith kumar	Sri Sairam College of Engineering	30/10/2025
M A Kavana	Er.Perumal Manimekalai College of Engineering	27/10/2025
Madhu B K	Sairam Institue of management	Dec 2025-Jan 2026
Harshitha C	Vtu,Belagavi	27/2/2026
MJ Rakshitha Shalini Ruchitha N T Rekha	Er.Perumal Manimekalai College of Engineering	27/10/2025
Aditya TS Giriraj S Lakshmi	Manakula Vinayagar Institute of Technology	28/02/2026
Kudum Yashwanth	IIIT Bangalore	05/01/2026-20/02/2026
Vijay.S Shashank Pavan G Piyush	AICTE	28/11/2025-29/11/2025
Bindu BR Anushree Gagana M Boya Pavani	AICTE	28/11/2025-29/11/2025

Narendra U Venkates M Manoj R	AICTE	28/11/2025- 29/11/2025
Tharun R	IJIRIS	11/11/2025

## Student Achievements

Name of the Student	Event	Prizes/Awards	Venue	Date
Bhaskar.G, Jagadish.M, Chirith kumar.M, G.B Prajwal	TECHNO VISTA	Secured 1st place with cash prize of Rs.1000/-.	Sri Sairam College of Engineering Bangalore.	30/10/2025
Mr.Santhosh.P, Naveenkumar.N, Ms.Divya.S and Tamil selvi.G	Paper presentation JAM ADZAP	Won 1st prize 2nd prize 3rd prize	PMC College of Engineering	31/10/2025
Mr. Nanda kumar.N, Gagan B.V, Devanandha.K, & Bhoomika.L	Paper presentation	Won 2nd prize at with a cash prize of Rs.2000	Sri Sairam College of Engineering Bengaluru.	22/11/2025.
Gayathri.P & Gagana.S	National level technical symposium	Won 2nd prize in circuit debugging with a cash prize of Rs 500/-.	Sri Sairam College of Engineering	25/11/2025.
Prajwal Team	Milagro -Technical symposium,Secured	Secured 2nd place in paper presentation	Sri Sairam College of Engineering Bangalore	27/11/2025
Abinaya.K and Harshitha C	Antenna Design competition	Secured 2nd prize and cash prize of Rs.7000/-	Christ University, Kengeri campus.	25/11/2025
Navya.K, Manojkumar Srinivas, Nithish.R	Conference	Awarded best paper	Don Bosco Institute of Technology, Bangalore,	28/11/2025
M S Sreehitha	National level technical symposium Evion 2k25	Secured I place in Technical quiz	PMC COLLEGE OF ENGINEERING, KRISHNAGIRI,	27/10/2025
M S Sreehitha	National level technical symposium " Machanic - 2k25 "	Secured 1st place in poster presentation, 1st place in photography, Participated in paper presentation (sustainability)	PMC COLLEGE KRISHNAGIRI,	01/11/2025
Vikas N	SENSE HACK 2025 ,National Level 36- Hour Hackathon	Participated	Vellore Institute of Technology, Vellore, jointly organized by IEEE SB VIT and IEEE ComSoc VIT SB	6/12/2025- 7/12/2025
Rahul kumar R S	Overall men championship,	Won the overall men champion in sports Tournament	Sri Sairam College of Engineering Bangalore	NOV 2025

## Student Topper List

### 3<sup>rd</sup> Sem Top 10 Students List

Sl.No	USN	Name of the student	Percentage
1	1SB24EC029	HARSHITHA .G	91
2	1SB24EC092	VARSHINI.R	86
3	1SB24EC086	SHRUTHILAYA.S	86
4	1SB24EC004	AKSHAY M	86
5	1SB24EC015	CHAYA.CC	86
6	1SB24EC083	SRINIDHI.R	85
7	1SB24EC062	PRATHIKSHA N RAJ	85
8	1SB24EC019	DEEPIKA.C.K	85
9	1SB24EC084	SHRUTHI.D	84
10	1SB24EC047	MANOJ.B	84

### 5<sup>th</sup> Sem Top 10 Students List

Sl.No	USN	Name of the Student	Percentage
1	1SB23EC025	GAGANA.S	89
2	1SB23EC070	NIKITHA.A	87
3	1SB23EC088	RUCHITHA.N	87
4	1SB23EC028	GAYATHRI.P	87
5	1SB23EC005	ASWINI.S	86
6	1SB23EC008	BHASKAR.G	86
7	1SB23EC080	PRUTHVI.S	85
8	1SB23EC042	KEERTHANA.R	85
9	1SB23EC087	REKHA.T	84
10	1SB23EC023	DIVYA.V	84

### 7<sup>th</sup> Sem Top 10 Students List

Sl.No	USN	Name of the Student	Percentage
1	1SB22EC015	BHOOMIKA L	91
2	1SB22EC032	DEEPAS	88
3	1SB22EC014	BHOOMIKA G	86
4	1SB22EC106	SHRUTHIP	85
5	1SB22EC099	SHAMITHA.R	85
6	1SB22EC008	BABITHA	84
7	1SB22EC060	MAHALAKSHMI.V	83
8	1SB22EC074	NETHRA. S	83
9	1SB22EC038	GAGAN B V	83
10	1SB22EC031	DEEKSHITHA B A	82