

Sri SAIRAM
COLLEGE OF ENGINEERING
Anekal, Bengaluru
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NAAC
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Sairam RAISE Sairam EOMS Sairam SDG ACTION PROGRAM

SUSTAINABLE DEVELOPMENT GOALS 4 QUALITY EDUCATION

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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

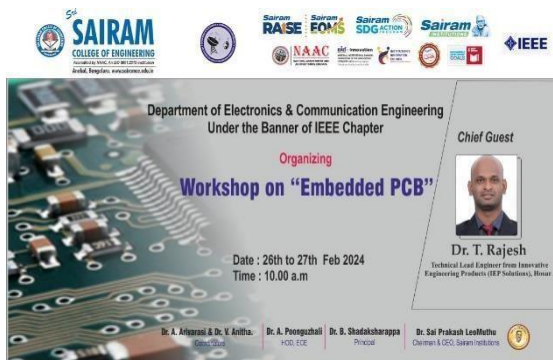
Associate Professor & Head of the Dept

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.

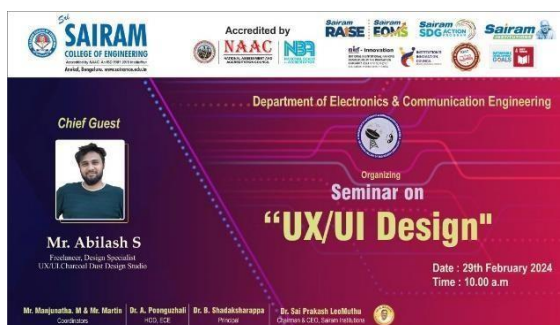
Department Activities

Workshop / Seminar / Conference/ Technical Talks

1. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru conducted a two-days workshop on "Embedded PCB" from 26/02/2024 to 27/02/2024 for third year ECE students. Dr. Rajesh T, Technical lead, Innovative Engineering Products, Hosur was invited as the Chief Guest for this workshop.



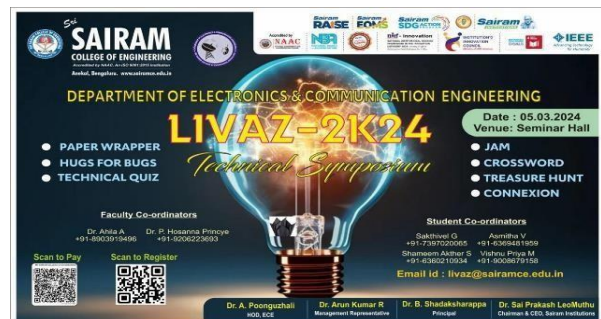
2. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru conducted a Seminar on UI/UX Design on 29/02/2024 for third year ECE students. The resource person was Mr. Abilash S, Design Specialist-UI/UX, Charcoal Dust Design Studio.



3. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru in association with Entrepreneurship Development Cell and Entrepreneurship Club has conducted a webinar on "Early Stage Entrepreneurs: Challenges and Opportunities" on 01/03/2024 for third year ECE students. The Resource Person was Sowmya Thyagarajan Fournier and CEO of Foviatech GmbH, Germany.



4. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru conducted Departmental Fest "LIVAZ-2K24" on 05/03/2024.



5. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru organized a Two days workshop for Second year ECE students on the topic "Internet of Things (IoT)" on 30th and 31st of May 2024. The resource persons were Mr. Karthikeyan, Technical Lead, and Mr. Dinakar, Technical Engineer, IobiT Solutions Pvt. Ltd, Bengaluru.



6. Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru conducted a one-day workshop on "Innovation and Design of Data Visualization Excellence on Power - BI" on 10/06/2024 for second year ECE students. Dr.Sonia Maria D'Souza and Prof.Ramesh Prasad from New Horizon College of Engineering were been invited as the resource persons for this workshop.



Industrial Visits:

1. The Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru organized an industrial visit to IEW, IOT Show, smart BHARAT and B2B Tech Expo at Bengaluru. A team of 133 students(2nd year) accompanied with 4 faculties visited "IEW, IOT Show, smart BHARAT and B2B Tech Expo" situated in Sarjapur road at Bengaluru on 2nd February 2024.



2. The Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru organized an Industrial visit to "TVS" Vehical Manufacturing Plant located at Hosur to impart practical knowledge. A team of 32 students (3rd year) accompanied with 2 faculties visited the facility.



3. The Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru had organized an Industrial visit to U.R.RAO SATELLITE CENTRE, Bengaluru. 52 students (3rdYear) visited the facility on 12th march 2024 to impart knowledge on how to design, development, integration and testing of different categories of satellites like, Communication, Earth observation, Navigation and Space Science Satellites. The faculties Ms.Mohanathi K and Mr.Manjunath M accompanied the students.



4. The Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Bengaluru had organized 3-Days industrial visit "National Power Corporation of India Ltd" Kaiga, Uttar Kannada District, Karnataka on 6th, 7th and 8th of April 2024. A group of 25 students along with Faculty Visited Kaiga nuclear power plant to get the exposure of Industrial management skills.



Paper Publications

1. Dr. S. Jayakumar has published a paper titled "A Novel Approach to Fault Recognition in Multi-level Inverters through Artificial Neural Networks" ISSN: 2348-8379 ,Volume 11 Issue 5, 161-174, SSRG International Journal of Electrical and Electronics Engineering.

2. Dr. S. Jayakumar has published a paper titled "Utilization of Digital Tools in the Indian Higher Education System During Health Crises" Advances in Logistics, Operations, and Management Science (ALOMS) ISSN: 2327-350X.

3. Dr. P. Narmatha has published a paper titled "Skin cancer detection from dermoscopic images using Deep Siamese domain adaptation convolutional Neural Network optimized with Honey Badger Algorithm" in biomedical Signal Processing and Control 86 (2023) 105264.

4. Dr. A. Arivarasi has published a paper titled "Machine Learning Based Heart Disease Prediction Using Feature Optimization algorithm" in 2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM) | 979-8-3503-6509-2/24/DOI: 0.1109/ICONSTEM60960.2024.10568760

5. Prof. Savitha H S has published a paper titled "Integrating Smart Technologies for Enhanced Traffic Management and Road Safety: A Data Driven Approach" in Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS 2023) ISBN : 979-8-3503-2579-9.

6. Dr. S. Jayakumar has published a paper titled "Mobile healthcare apps for patients" in current trends in health care and monitoring Journal ISBN : 978-93-95196-77-2.

7. Prof. Hema Shubraja J has published a paper titled "Mobile healthcare apps for patients" in current trends in health care and monitoring Journal ISBN : 978-93-95196-77-2.

8. Prof. P. Deepika has published a paper titled "Medical applications and healthcare based on cloud computing" in current trends in health

care and monitoring Journal ISBN : 978-93-95196-77-2.

9. Dr. A. Arivarasi has published a paper titled "A Comprehensive Exploration of Mathematical Programming and Optimization Techniques in Electrical and Electronics Engineering" in IGI-Global Journal DOI: 10.4018/979-8-3693-1487-6.ch019.

10. Dr. P. Hosanna Princye has published a paper titled Applications of Artificial Intelligence in Thrust Manufacturing: Enhancing Precision and Efficiency" in IGI-Global Journal DOI: 10.4018/979-8-3693-2615-2.ch004.

11. Dr. Anitha Velu has published a paper titled "Priority Based Lightweight Cluster Routing for Efficient Communication in Vehicular Ad Hoc Networks" in central asian journal of mathematical theory and computer sciences Volume: 05 Issue: 02 | April 2024 ISSN: 2660-5309.

12. Dr. Anitha Velu has published a paper titled "An Energy Efficient IoT based Smart Street Lighting using Low Cost SOC" in 2024 International Conference on Electronics, Computing, Communication and Control Technology (ICECCC) 979-8-3503-7180-2/24.

13. Dr. Anitha Velu has published a paper titled "IoT Enabled Smart Farming: A Controlled Environment Agriculture Application" in Proceedings of the International Conference on Sustainable Communication Networks and Application (ICSCNA 2023) DVD Part Number: CFP23DW8-DVD ISBN: 979-8-3503-1397-0.

14. Prof. Mohanthi K has published a paper titled "Novel Approaches in Machine Learning for Enhanced Facial Recognition Systems".

15. Dr. A. Ahila has published a paper titled "Applications of Artificial Intelligence in Thrust Manufacturing: Enhancing Precision and Efficiency" in IGI-Global Journal DOI: 10.4018/979-8-3693-2615-2.ch004.

FDP's attended

SL NO	NAME	FDP NAME	DATE	NO OF DAYS	NAME OF THE INSTITUTE
1	Dr.Martin Joel Rathnam	Foundation of Cloud IoT Edge ML	Feb-Apr 2024	8 weeks	NPTEL-AICTE Faculty Development Programme
2	Prof.Deepika P	Research Methodology	Feb-Apr 2024	8 weeks	NPTEL-AICTE Faculty Development Programme
3	Dr.Martin Joel Rathnam	AR & VR with emphasis in Unreal Engine	27/05/2024-31/05/2024	5 days	Monolith Research and Training Labs
4	Prof.Savitha H S	Pedagogical Emotional Competence	27/02/2024-04/03/2024	6 days	St. Xavier' College of Management Technology
5	Dr. A Poonguzhali	2nd IEEE International Conference on Data Science and Network Security (ICDSNS - 2024)	26/07/2024 - 27/07/2024	2 days	Kalpataru Institute of technology, Tiptur.
6	Prof.Deepika P	2024 Third IEEE International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT 2024)	24/07/2024-26/07/2024	3 days	K.Ramakrishnan College of Engineering
7	Prof.Mohanathi K	2024 Third IEEE International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT 2024)	24/07/2024-26/07/2024	3 days	K.Ramakrishnan college of Engineering
8	Dr. A Poonguzhali	Transforming Education: Integrating OBE and NEP 2020"	22 /07/2024-2/08/2024	14 days	CVR college of Engineering
9	Dr Ahila A	"Navigating the Intellectual Property Rights: Idea / Invention to the Grant of a Patent "	20/02/2024-21/02/2024	2 days	SRM Institute of Science and Technology
10	Dr Anitha V	Advancement in Quantum Computing and Sensor Technology for Viksit Bharat @ 2047	15/04/2024-27/04/2024	14 days	The Oxford College of Engineering
11	Prof.Geetha S	Advancement in Quantum Computing and Sensor Technology for Viksit Bharat @ 2047	15/04/2024-27/04/2024	14 days	The Oxford College of Engineering
12	Prof.Manjunatha M	"Advancement in Quantum Computing and Sensor Technology for Viksit Bharat @ 2047"	15/04/2024-27/04/2024	14 days	The Oxford College of Engineering, Bengaluru.
13	Dr. A Poonguzhali	Advancement in Quantum Computing and Sensor Technology for Viksit Bharat @ 2047	15/04/2024 - 27/04/2024	14 days	The Oxford College of Engineering

14	Dr.Martin Joel Rathnam	"AI Insights: Predictive Power of ML, DL & NLP"	14-05-2024 - 18-05-2024	6 days	Sphoorthy Engineering College
15	Prof.Raja GV	"AI Insights: Predictive Power of ML, DL & NLP"	14-05-2024 – 18-05-2024	5 days	Sphoorthy Engineering College
16	Prof.Mohanthi K	"Recent Advancements in Deep Learning for Computer Vision Applications"	1/04/2024-12/04/2024	14 days	CVR college of Engineering
17	Prof.Geetha S	AICTE Evaluated 2-Week Patent Course	02/03/2024-15/03/2024	14 days	Turnip Innovations
18	Prof.Santosh kumar N	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024-05/04/2024	1 month	The Oxford College of Engineering
19	Prof.Geetha S	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024-05/04/2024	1 month	The Oxford College of Engineering
20	Prof.Manjunatha M	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024 - 05/04/2024	9 days	The Oxford College of Engineering
21	Prof.Deepika P	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024-05/04/2024	5 days	The Oxford College of Engineering
22	Dr Ahila A	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024 - 05/04/2024	7 days	The Oxford College of Engineering
23	Dr. A Poonguzhali	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024-05/04/2024	6 days	The Oxford College of Engineering
24	Dr. S. Jayakumar	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024-05/04/2024	5 days	The Oxford College of Engineering
25	Dr.Martin Joel Rathnam	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024-05/04/2024	11 days	The Oxford College of Engineering
26	Prof.Savitha H S	"Frontiers of Photonic Integrated Circuits and Sensing Technologies"	01/04/2024-05/04/2024	10 days	The Oxford College of Engineering
27	Prof.Deepika P	CMOS Digital VLSI Design	Jan-Mar 2024	8 weeks	NPTEL-AICTE Faculty Development Programme
28	Dr A Poonguzhali	Introduction to Embedded System Design	Jan-Apr 2024	12 weeks	NPTEL-AICTE Faculty Development Programme
29	Dr AArivarasi	"Optimizing Machine Learning Workflows: Data Pipelines, Explainable AI, and MLOps in Research and Practice"	24/06/2024-28/06/2024	5 days	New Horizon College OF Engineering

30	Dr.Ahila A	“Essentials of Cyber Security in Blockchain Technologies”	19/02/2024-29/02/2024	10 days	Vidyavardhaka college of engineering
31	Dr.A.Arivarasi	“Essentials of Cyber Security in Blockchain Technologies”	19/02/2024 - 29/02/2024	10 days	Vidyavardhaka college of engineering
32	Prof.Mohanathi K	Aiming Towards 3D’s in Electrical Engineering	11-03-2024-15-03-2024	5 days	Mahatma Gandhi Institute of Technology
33	Prof.Raja GV	hand holding session on publishing papers in High Impact Journal	21-Jun-24	1 day	Sri Sairam College Of Engineering
34	Prof.Santosh kumar N	Physical desgin & verification using Mentor Graphics tools	16-05-2024	1 day	CoreEL Technologies and Mentor
35	Prof.Geetha S	Design and verification using Siemens EDA tools	21-03-2024	1 day	CoreEL Technologies and Mentor
36	Prof.Geetha S	Computer Vision with MATLAB- Introduction to Visual Intelligence	09-02-2024	1 day	CoreEL Technologies (I) Pvt Ltd




Patent Filed

SI No	Patent 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	202441034188	Published	Martin Joel Rathnam	Greenhouse Monitoring and Control system using IOT	Martin Joel Rathnam	30/04/2024	10/05/2024

MOU Initiatives

Organization with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise
Innovate Engineering Products situated	2024	3 Years	1. Training for Students 2. Faculty Development 3. Offer specialized training in areas like PCB design, embedded systems with IoT etc

Student Topper List

Student Name	USN	Year	Photo
Karthikeshwar.P	1SB21EC400	4	
Monika lakshmi.S	1SB21EC057	3	
Deepa.S	1SB22EC032	2	

Students Papers presentation

Name of the Student	Venue	Date
Srinivas N Monisha N Vidyashree S	Sir M.Visvesvaraya Institute of Technology (SUTANTRA)	14/6/2024
Abhishek A Jagadish K Narendra Babu K V	SJC Institute of Technology (AAVISHKAR)	3/5/2024
Sumanth K S Varun B V Brijeam Reddy Samarth	Christ Deemed to be University (MAGNOVITE)	12/2/2024- 13/2/2024
Deekshitha B A Babitha Bhoomika L Deepa S	SETHU Institute of Technology (INTELLX'24)	24/2/2024
Nanda Kumar N Mutheeshwaran R Venkatesan sekar Mohammed Hussain S Gagan B V	SETHU Institute of Technology (INTELLX'24)	24/2/2024
Rakshitha G Bindu B R Anushree Srikanth S	SETHU Institute of Technology (INTELLX'24)	24/2/2024

Placement

The Following list of companies recruited the students of ECE during the academic year 2023.

Name of the Company	Number of Students Selected
MINDTREE	7
TCS(P)	4
NAAVINYA	5
FOXCONN	9
VEE TECHNOLOGY,	5
RINEX	4
ETHNUS	14
BYJU'S	2
QSPIDER	6
PENTAGON SPACE	1
1CUBES	1
ACADEMOR	8
NAAVINYA CAD SOFT P LTD	5