

DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING

# NEWSLETTER

## 2021-2022



Sri

## SAI RAM ENGINEERING COLLEGE

*An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi*

*Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution*

Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairam.edu.in](http://www.sairam.edu.in)



Sairam  
**RAISE**

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**SDG ACTION PROGRAM**

ARIIA  
ATAL RANKING OF INSTITUTIONS  
ON INNOVATION ACHIEVEMENTS  
EXCELLENT BAND

nirf  
RANKING  
INSTITUTIONS

INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

SUSTAINABLE  
DEVELOPMENT  
GOALS

4 QUALITY  
EDUCATION

9 INDUSTRY INNOVATION  
INFRASTRUCTURE

# Imagine the Future and Make it happen!



Together let's build a better world where there is **NO POVERTY** and **ZERO HUNGER**.

We have **GOOD HEALTH AND WELL BEING**, **QUALITY EDUCATION** and full **GENDER EQUALITY** everywhere.

There is **CLEAN WATER AND SANITATION** for everyone. **AFFORDABLE AND CLEAN ENERGY** which will help to create **DECENT WORK AND ECONOMIC GROWTH**. Our prosperity shall be fuelled by investments in **INDUSTRY, INNOVATION AND INFRASTRUCTURE** that will help us to **REDUCE INEQUALITIES** by all means. We will live in **SUSTAINABLE CITIES AND COMMUNITIES**. **RESPONSIBLE CONSUMPTION AND PRODUCTION** will help in healing our planet.

**CLIMATE ACTION** will reduce global warming and we will have abundant,

flourishing **LIFE BELOW WATER**, rich and diverse **LIFE ON LAND**.

We will enjoy **PEACE AND JUSTICE** through **STRONG INSTITUTIONS**

and will build long term **PARTNERSHIPS FOR THE GOALS**.



For the goals to be reached,  
everyone needs to do their part:  
governments, the private sector,  
civil society and **People like you.**

*Together we can...*

*Sai Prakash Leo Muthu*

Chairman & CEO - Sairam Institutions



## VISION

To emerge as a “centre of excellence” in the field of Electronics and Communication Engineering and to mould our students to become technically and ethically strong to meet the global challenges. The Students in turn contribute to the advancement and welfare of the society.



## MISSION

Department of Electronics and Communication Engineering, SRI SAIRAM ENGINEERING COLLEGE is committed to

- M1** Achieve, sustain and foster excellence in the field of Electronics and Communication Engineering.
- M2** Adopt proper pedagogical methods to maximize the knowledge transfer.
- M3** Enhance the understanding of theoretical concepts through professional society activities
- M4** Improve the infrastructure and provide conducive environment of learning and research following ethical and moral values

## **PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

- PEO1** Acquire strong foundation in Engineering, Science and Technology for a successful career in Electronics and Communication Engineering.
- PEO2** Apply their knowledge and skills acquired to solve the issues in real world Electronics and Communication sectors and to develop feasible and viable systems.
- PEO3** Be receptive to new technologies and attain professional competence through professional society activities.
- PEO4** Participate in lifelong learning, higher education efforts to emerge as expert researchers and technologists.
- PEO5** Practice the profession with ethics, integrity, leadership and social responsibilities.

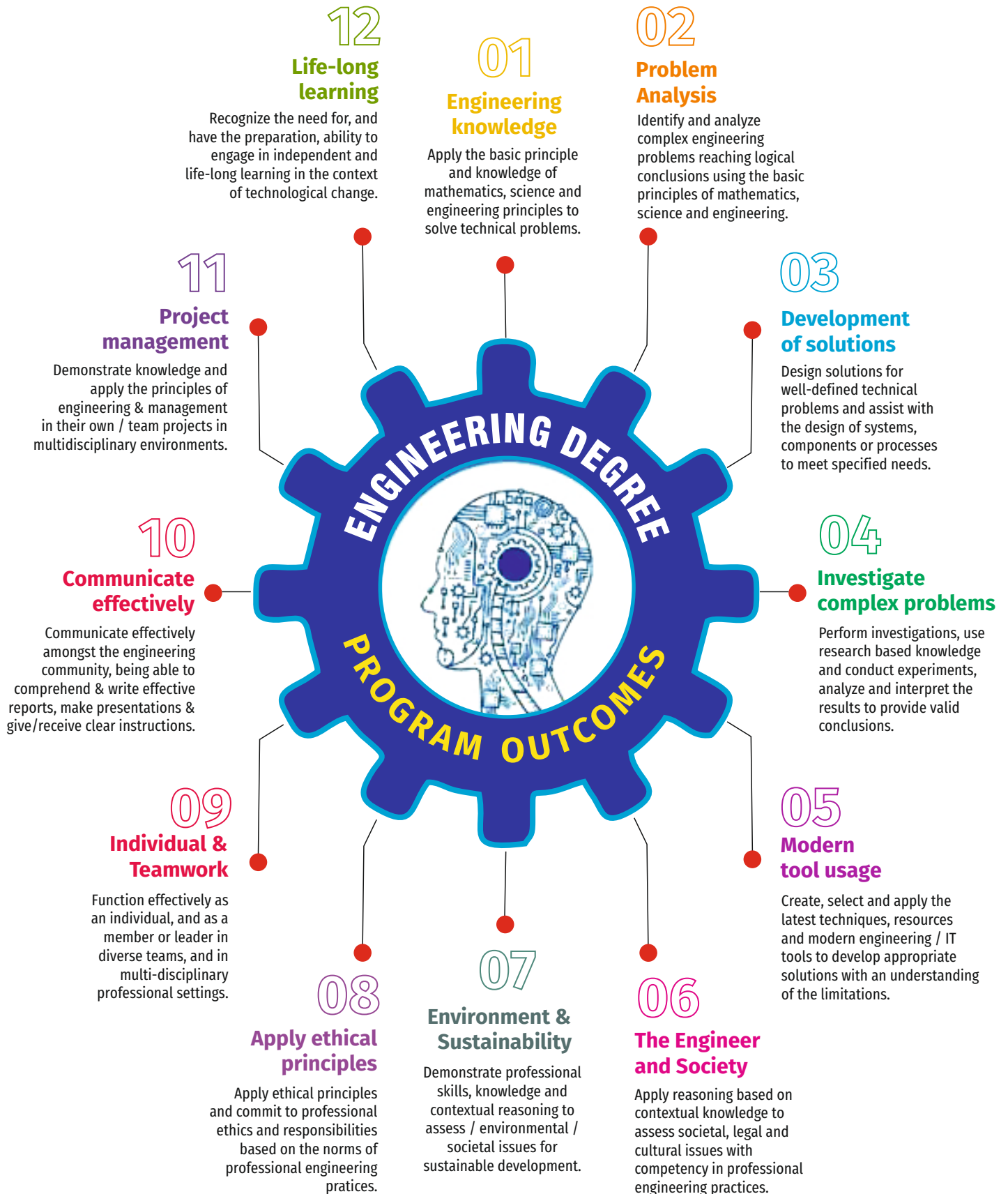
## **PROGRAM SPECIFIC OUTCOMES (PSOs)**

- PSO 1** Design, implement and test Electronics and Communication systems using analytical knowledge and applying modern hardware and software tools
- PSO2** Develop their skills to solve problems and assess social, environmental issues with ethics and manage different projects in multidisciplinary areas.



# PROGRAMME OUTCOMES(POs)

PROGRAM OUTCOME REPRESENTS THE KNOWLEDGE, SKILLS AND ATTITUDES THAT THE STUDENTS WOULD BE EXPECTED TO HAVE AT THE END OF THE 4 YEAR ENGINEERING DEGREE PROGRAM





### Value added Training Programme on "Embedded Protocol Developer"

The Association of ECE, IETE Student branch, IEEE & IEI Organized 3 day Value Added Training Programme on "Embedded Protocol Developer" from 29.09.2021 to 01.09.2021. Hands-on training provided by **Mr. Don Deodus**, Senior Embedded Developer, Throttle Innovations Private Limited, Chennai. 42 students attended the training program and benefitted. At the end of the day students completed the various projects. The Training program facilitates the students to excel in the emerging fields.

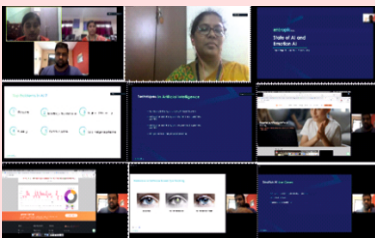
### Workshop on Orcad PSPICE Using Cadence

The Association of ECE, IEEE & IEI, IETE Student Forum in Association with Live wire, Chennai conducted a 2 days workshop on "ORCAD PSPICE EDITOR" on 17.09.2021 & 18.09.2021 for second year students. During the Training program students were taught PCB Design & Simulation analog circuits using cadence. Participants shared their experience. More than 190 students participated and benefited.



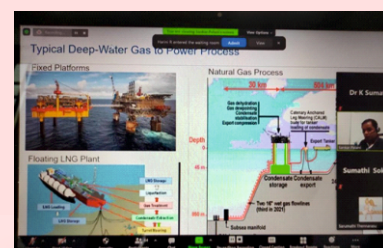
### Workshop on "Current Trends in Artificial Intelligence"

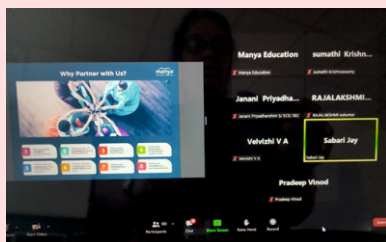
The Association of ECE Department, IETE Student branch, IEEE & IEI Organized, workshop on "Current Trends in Artificial Intelligence". **Mr. Sumit Singh Chauhan**, Senior Data Scientist, Entropik Tech, Bengaluru. Inaugurated & speaker gave lecture on the topic State of Artificial Intelligence and Emotion AI.



### International webinar series "Project Management in Process Automation"

The Association of ECE, IETE Student branch, IEEE & IEI Organized International webinar series "Project Management in Process Automation". Resource person **Mr. Sankar Pillai**, Director, Projects, Emerson Asia Pacific Private Ltd., Singapore. The speaker elaborated on Project management techniques and process Automation in detail. 120 Students attended the webinar.





### Webinar on Higher Studies

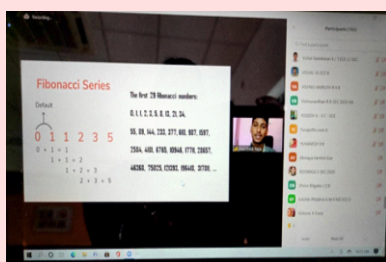
The Association of ECE, IETE Student branch, IEEE & IEI Organized a **Webinar on higher studies**. Speakers were **Mr. Sabari Jay**, Manya Princeton review, Chennai, explained about the Higher studies opportunities in abroad, top ten universities and scholarships provided. 190 students attended the webinar.

### Webinar on Skillrack Awareness programme

The Association of ECE, IETE Student branch, IEEE & IEI Organized **webinar on Skill rack awareness programme** on 23.08.2021. **Speakers were Mr. K.Barathwaj** Software Engineer, CISCO Systems, **Ms.V. Manisha**, Systems Engineer, TCs & **Ms.Anuja T.S.R.** The speakers explained about Skill rack and training, they explained about how skill rack helped them for placement opportunities. Total 190 Students attended the webinar.



### Webinar on Skillrack Awareness programme



The Association of ECE, IETE Student branch, IEEE & IEI Organized **webinar on Skill rack awareness programme** on 25.09.2021. **Speakers were Mr.V.Karthik Raja** Software Engineer, Application Development Engineer, Systems, **Ms.V.Manisha**, Systems Engineer, TCs & **Mr Shivakumar**, ZOHO, and Software Developer. The speakers explained about skill rack and training, they also explained about how skill rack helped them for placement opportunities. Total 165 Students attended the webinar.

### IETE FOUNDATION DAY CELEBRATION ON 02.11.2021

The Department of Electronics and Communication Engineering **celebrated the IETE foundation day** on 02.11.2021 on campus. The event was conducted at the Beta hall with 100 participants from 2nd year and 3rd year. Welcome address by **Dr S Sumathi**, professor, ECE and ISF Coordinator. Dr S Sumathi briefed on the various activities such as Quiz competition, sell your product and Adzab conducted and acknowledgements received throughout the year.





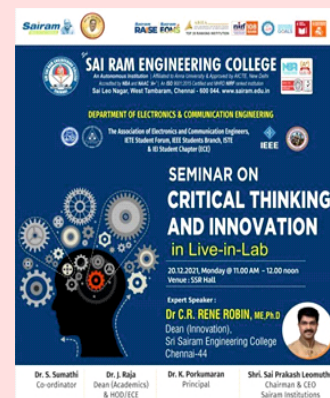


### Value added Training Programme on “Internet of Things”

The Association of ECE, IETE Student branch, IEEE & IEI Organized Labs a 3 day Value Added Training Programme on “Internet of Things” from 11.10.2021 to 13.10.2021. Students were provided with hands-on training by **Mr. Parthiban**, Team Lead from LEMA Labs, IIT Research Centre, Chennai. Students benefited by completing IoT based projects. The Training program facilitates the students to excel in the emerging fields.

### Seminar on “Critical Thinking and Innovation” on 20.12.2021

The Association of ECE, IETE Student branch, IEEE & IEI Organized Seminar on Critical Thinking and Innovation on 20.12.2021. Resource person **Dr C.R.Rene Robin**, Dean Innovation, Sri Sairam Engineering College, Chennai, delivered talk about critical thinking and innovation for problem solving, developing Projects and business model.

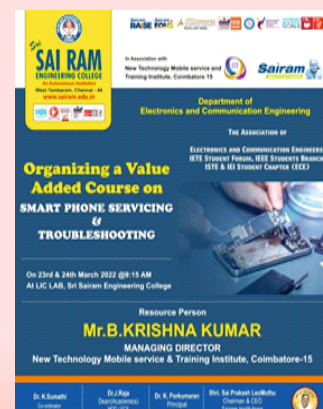


### Workshop on “Tinkercad”

The Association of ECE, IETE Student branch, IEEE & IEI Organized workshop on Tinker cad 19.12.2021. The workshop facilitates the students to excel in using Tinkercad for simulation.

### Value added Training Programme on “Smart Phone Servicing and Troubleshooting”

The Association of ECE, IETE Student branch, IEEE & IEI with NEW TECHNOLOGY, Smart phone servicing Institute, Coimbatore. Conducted Value added Training Programme on “Smart Phone Servicing and Troubleshooting” from 23.3.2022 & 24.3.2022. Students were given hands-on training in Common repair procedure for hardware related faults, software related faults & Water damaged repair techniques.







## Seminar on "Strategies for Facing Questions in Technical Recruitment Exams"

The Association of ECE, IETE Student branch, IEEE & IEI Organized a Seminar on Strategies for Facing Questions in Technical Recruitment Exams on 16.03.2022. Resource person our Alumni speaker Mr. S. Venkatraman, Assistant Professor, Department of ECE, Sri Sairam Institute of Technology, Chennai. The students were able to gain knowledge about the Technical Recruitments exams.

## World Telecommunication Day celebration on 17.05.2022

The Association of ECE, IETE Student branch, IEEE & IEI celebrated the IETE World Telecommunication day on 17.05.2022 at Gamma hall with 125 participants from II year and III year ECE. A Letter from the IETE head office was read, stating the importance of communication and declaring "Theme for the year Digital Technologies for Older Persons and Healthy Ageing". The theme emphasizes the use of information technologies and their importance to stay healthy, connected, and independent on a physical, emotional, and financial level. Chief Guest, Mr S Arunsundar, Systems Engineer, CVRDE, DRDO EC member IETE Chennai centre. The Chief guest elaborated on the "IoT systems and its architecture", followed by interactive speech, QUIZ, CIRCUIT JUMBLE & SURPRISE events were conducted by the student organizers.



## Mini Project Exhibition held on 31.05.2022

The Association of ECE, IETE Student branch, IEEE & IEI Organized Techxhibit 2k22. A Mini Project Exhibition on 31.05.2022. Third year ECE Students with innovative projects on Recent Technology participated in the competition. Prizes were distributed for the best projects.

## Faculty Development Programme held on 7.6.21 to 12.6.21

The Department of Electronics and Communication Engineering, Organized Six days Online Faculty development Programme, sponsored by Center for Faculty Development, Anna University, on CS8082 - Machine Learning Techniques from 07 June 2021 to 12 June 2021. The coordinators for the FDTP were Ms. A. R. Rajini and Ms. K. Subhashini. The FDTP was organized as per the guidelines stated by CFD, Anna University.



# STUDENTS ACHIEVEMENTS

## OUTER SPACE INDIA!

Team OUTER SPACE of Sri Sairam Engineering College, K. L. Nirmal Raja, K. Varunapriyan, S. Thanush of 3rd YR ECE are extremely proud to reveal them officially as NASA's - IASC CITIZEN SCIENTISTS!

In the CB Devgun Memorial Asteroid Search Campaign partnered with NASA, they got the opportunity to be citizen scientists recognized by NASA - National Aeronautics and Space Administration, where out of all the 44 asteroids that were detected in this campaign, **the team Outer Space detected around 7 asteroids** with the datasets that received from PAN-STARRS



## FAER - McAfee

M. Shyamkumar, K. L. Nirmal Raja, K. Varunapriyan of 3rd Year ECE won II prize with a cash award of rs 75000/- for their proposal titled "Control of Prosthetic Arm via Signals from Residual Limb – A Boon for Amputees" from FAER – McAfee.

## STUDENTS ACHIEVEMENTS

### HACKATHON & POSTER DESIGN CONTEST - IIT MADRAS



**Third year Students Tata Sai Nandini and S. Swethaa have participated in the Student Hackathon and Student Poster Design contest at IIT Madras.**

**They have won Second place in Student Hackathon,  
Cash Prize rs 15000.00 & also received Consolation Prize in  
Student Poster Design, Cash Prize rs 25000.00**



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*Instilling*  
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We build a better nation through quality education.