

# QUASAR`23 NEWSLETTER



**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION  
ENGINEERING**

# FOUNDER CHAIRMAN



# PRINCIPAL'S MESSAGE



A perfect combination of knowledge and skill has always helped in evolving ourselves to be the change, we once dreamt of. I am happy to learn that as a testament to this ideology the Department of Electronics and Instrumentation Engineering of our College has decided to bring QUASAR'23. I appreciate the efforts taken by both the faculty and the students of the department in stretching out a helping hand to quench the thirst for knowledge that sustains in every reader's mind. I wish them all the best for all their future endeavors.

**Dr. K. Porkumaran**

# HOD'S MESSAGE



The main objective of this fest is to bring Engineering students together from different institutions across the country to share the innovative ideas and technical works with our students in our prestigious institution. Events, such as this, will not happen without active participation of the students. I take this opportunity to congratulate all the staff and student members to make this fest a grand success. I hope QUASAR'23 would cherish the success stories of the successful students who had come with flying colors and this would inspire and guide the upcoming students.

**Dr. K. Renganathan**

# POSTER



**SRI SAIRAM ENGINEERING COLLEGE**

SAI LEO NAGAR, WEST TAMBARAM, CHENNAI - 600044



**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**  
IN ASSOCIATION WITH ISOI, IEI, ISTE, IEEE

### Technical Events

- ALL TERRRAIN
- IGNITING MINDS
- RUSTLE UP
- SMARTATHON-AIE
- WORKSHOP - ELECTRIFYED

### Non - Technical Events

- AD-MAD
- MELODY MAYHEUM
- SERIAL BINGERS
- STUDENT TALKIES
- VIBES VOYAGE
- WARZONE



**QUASAR'23**

**3rd NOVEMBER 2K23**

WEBSITE - [www.quasar23.com](http://www.quasar23.com)

MAIL ID - [quasar23.sympo@gmail.com](mailto:quasar23.sympo@gmail.com)

For Queries Contact

ABDUL KALAM A - 8015067477

GUNA S - 9791534128

**REGISTER NOW**



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ABDUL KALAM A  
SOWMIYA K  
DHANASHREE V  
STUDENT COORDINATOR

Ms.S.PREMALATHA  
ASSOC.PROF-EIE  
STAFF COORDINATOR

Ms.N.NITHYA RANI  
ASST.PROF-EIE

Dr.K.RENGANATHAN  
HOD-EIE

Dr.K.PORKUMARAN  
PRINCIPAL

Dr.SAI PRAKASH LEOMUTHU  
CHAIRMAN & CEO  
SAIRAM INSTITUTIONS

# SRI SAIRAM ENGINEERING COLLEGE

## DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

**Convener : Dr. K. RENGANATHAN, HOD/EIE**

**Coordinator : Ms.S.PREMALATHA, AP/EIE**

**Ms.N.NITHYA RANI ,AP/EIE**

### COMMITTEE LIST

01.	Reception & Rangoli	Dr..B.Puviyarasi Ms.Udhaya Sys.Prog Ms.Sudha Lab. Tech	Priya L Krithika S Sruthi S Karthika G
02.	Registration & Accommodation	Ms. T. Tamilselvi	Sanjeev M Karthika G Samyuktha S
03.	Designing & Distribution of Website, Poster, Banner and Invitation,	Mr. K. Madhana Mohan Mr.Tamilarasan, Lab.Tech Mr.Prinso, OA	Dhanashree V Abdul Kalam A Vaitheeswari R
04.	Designing & Distribution of Website, Poster, Banner and Invitation,	Ms.S.Premalatha Ms.N.Nithya Rani Mr.Vinodhbabu, OA Mr.Purushothaman, Lab Tech	Aravind kumar V Rakesh S
05.	Master of Ceremony, Memento	Dr. S. Subha	Mahalakshmi P Durgashree D Vaitheeswari R
06.	Certificate designing, printing,Distribution of Prizes and Certificate	Ms. K.Srividya	Santhosh kumar B Guruprasad .S
07.	Newsletter, Souvenir	Mr.M.Subramanian	Yogabhuvaneswari U Srivarsha U
08.	ALL TERRAIN (Technical Event)	Dr.K.Anbumani	Nithyashree N Saimahalakshmi G

09.	IGNITING MINDS-paper presentation(Technical Event)	Dr. S.Durgadevi Dr.T.Sathieskumar	Keerthana P
10.	RUSTLE UP(Technical Event)	Ms.K.Thirupura Sundari	Praveen G D Vishnu R
11.	HACKATHON	Mr.M.Subramanian	Keerthivasan R Sreevaragi S
12.	WORKSHOP	Dr.M.Nalini	Bharath Kumar MR Sanjeev M Pradeep M
13	MELODY MAYHEUM (Nontechnical )	Dr.T.Sathieskumar	Ashifa M Dilli rani D
14.	AD-MAD	Ms.R.Gayathiri	Janani D Shanmuga priya P
15.	SERIAL BINGERS	Mr. R. Premkumar	Prashithaa N Yogabhuvaneswari U
16.	STUDENT TALKIES	Mr. B. Rajapandian	Senthamizh selvan S Hanupriyan S R
17.	WARZONE	Mr. K. Madhana Mohan	Mukesh B Vasanthakumar M
18.	VIBES VOYAGE	Mr. K. Madhana Mohan	Harinarendran K Akshaiy S K
19.	Sponsorship, Finance and purchase,Press and Media (Photo & video)	Dr. K. Renganathan, HOD/EIE Ms.S.Premalatha Ms.N.Nithya Rani	Abdul kalam A, Aravind kumar V, Sowmiya K ,Dhanashree V ,Guna S Harinarendran K
20.	Discipline committee	All staffs	



# TECHNICAL EVENTS

# ALL TERRAIN

Embracing the belief that a path devoid of obstacles loses its true essence, we set the foundation for our 'All Terrain' event. Prepare yourselves to confront a multitude of terrains, each presenting unique challenges to overcome. As you navigate the intricate bends and curves of this course, the pursuit of victory becomes your driving force. Make certain that your bots are finely tuned and ready to tackle this demanding journey, filled with unexpected challenges. Keep in mind that mastering precise timing will be your ultimate tool for achieving success in this thrilling adventure.



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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Proudly Presents  
**QUASAR'23** ⚡



**EVENT DATE**  
**3<sup>rd</sup> NOV 2023**

**REGISTRATION STARTS ON 19TH OCT**  
ON SPOT REGISTRATION ALLOWED

**CASH REWARDS OF UPTO ₹ 5000**

**STAFF CO-ORDINATOR**  
Dr.K.Anbumani

**STUDENT CO-ORDINATORS**  
Nithyashree N - 7824811411  
Saimahalakshmi G - 8778161359

quasar.23  
quasar.eie

SCAN ME



# IGNITING MINDS

This competition is a platform for you to shine and present your ideas professionally and engagingly, we encourage participants to prepare thoroughly emphasizing the relevance, innovation, and creativity of their work. Don't miss this opportunity to showcase your talent and compete against other brilliant minds. We look forward to seeing you at the paper presentation competition and witnessing the future of innovation and research unfold. Prepare to dazzle us with your intellect and creativity.



The poster is for the 'QUASAR'23 event, organized by Sairam Engineering College. It features a dark red background with a circuit-like pattern. At the top, the college's name and accreditation details are listed. The central theme is 'IGNITING MINDS', illustrated by a glowing brain emerging from an open book. To the right, there's a graphic of scattered green banknotes representing cash rewards. The event date is prominently displayed as November 3rd, 2023. A call to action urges registration before November 1st. At the bottom, contact information for staff and student coordinators is provided, along with a QR code for registration.

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**QUASAR'23**

**IGNITING MINDS**  
PAGE TO PROGRESS

**CASH REWARDS OF UPTO ₹ 1500**

**EVENT DATE**  
**3<sup>rd</sup> NOV 2023**

**REGISTER BEFORE 1<sup>ST</sup> NOVEMBER**

**STAFF CO-ORDINATORS**  
Dr. S.Durgadevi  
Dr.T.Sathieskumar

**STUDENT CO-ORDINATORS**  
Keerthana P - 8122109204  
Divya N - 8300913713

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**quasar.23**  
**quasar.aie**

# RUSTLE UP

The Rustle Up is a event which comprises of breadboards, resistors and other electrical components where the participants needs to quickly identify the components and should make a circuit using the components encompassed in the hall. To challenge your circuit making skills we have a wide range of circuits based rounds. Improvise your knowledge of components and show your skills with wires. Register for this electric event and showcase your flash speed!

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**RUSTLE UP**

CASH REWARDS OF UPTO  
₹ 1500

EVENT DATE  
**3 NOV** 2023

➡ **REGISTER BEFORE 31st OCTOBER**

**STAFF CO-ORDINATOR**  
Ms.K.Thirupura Sundari

**STUDENT CO-ORDINATORS**  
Praveen G D - 8056276222  
Vishnu R - 8428820902

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quasar.eie

# WORKSHOP

Foundations of Electrical and Electronics:

On the first day, we'll lay the groundwork for your journey into electrical and electronics. During the online session, our experienced instructors will cover fundamental topics that serve as the building blocks of this field. You'll delve into concepts such as voltage, current, resistance, and circuits. These are the essential principles that underpin all electrical and electronics systems.



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**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

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## QUASAR'23 ⚡



**ENTRY FEE**  
**₹1500**  
**WITH KIT**

**EVENT DATE**  
**3<sup>rd</sup> NOV 2023**

**REGISTER BEFORE 1<sup>ST</sup> NOVEMBER**

 **quasar.23**  
 **quasar.aie**

**STAFF CO-ORDINATOR**  
Dr.M.Nalini

**STUDENT CO-ORDINATORS**  
Bharath Kumar M R - 9940118141  
Pradeep M - 8825499096  
Sanjeev M - 8838386224

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# SMARTAHON - AIE

Welcome to SMARTATHON, where innovation knows no rest! For a thrilling five-hour sprint, you and your team will dive headfirst into the exciting world of IoT and automation challenges. In this intense time frame, you'll face a series of exhilarating challenges that will test your problem-solving skills, creativity, and technical expertise. Each hour will bring a new opportunity to brainstorm, design, and build smart solutions that can transform lives. But that's not all! SMARTATHON believes in rewarding exceptional talent. The top three teams that excel in innovation and execution will not only earn recognition for their outstanding work but also receive fantastic prizes that can catapult their projects to new heights. So, get ready for a five-hour adrenaline-packed journey of innovation, collaboration, and unwavering determination. Join us at SMARTATHON, where your ideas have the power to become reality, and where the brightest minds in IoT and automation gather to shape the future. Will your team rise to the challenge and seize the spotlight? The countdown to greatness begins now!



The poster is for the SMARTATHON AIE QUASAR'23 event. It features a dark blue background with a glowing blue circle in the center containing a stylized face made of circuit lines. The text is white and yellow. At the top left is the Sai Ram Engineering College logo. At the top right are logos for NBA, ISO, and AIE. The main text reads 'SAIRAM ENGINEERING COLLEGE', 'NBA Accredited & ISO 9001 : 2015 Certified Institution', 'Sai Leo Nagar, West Tambaram, Chennai - 600 044 | www.sairam.edu.in', 'DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING', 'Proudly Presents', 'QUASAR'23', 'SMARTATHON AIE', 'EVENT DATE 3<sup>rd</sup> NOV 2023', 'REGISTER BEFORE 31<sup>ST</sup> OCTOBER', 'CASH REWARDS OF UPTO ₹3000', 'STAFF CO-ORDINATOR Mr.M.Subramanian', 'STUDENT CO-ORDINATORS Keerthivasan R - 8300839982, Sreevaragi S - 9444017903', and a QR code labeled 'SCAN ME'.

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**QUASAR'23**

**SMARTATHON**  
AIE

**EVENT DATE**  
**3<sup>rd</sup> NOV 2023**

**REGISTER BEFORE 31<sup>ST</sup> OCTOBER**

**CASH REWARDS OF UPTO ₹3000**

**STAFF CO-ORDINATOR**  
Mr.M.Subramanian

**STUDENT CO-ORDINATORS**  
Keerthivasan R - 8300839982  
Sreevaragi S - 9444017903

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# **NON - TECHNICAL EVENTS**

# AD-MAD

Unleash your creativity and persuasive skills in this dynamic advertising competition. Craft engaging ads on the spot and captivate the audience with your marketing process. Let your imagination run wild and make a lasting impression in this exciting Ad-mad event.

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**AD-MAD**

CASH REWARDS OF UPTO  
₹1000

**EVENT DATE**  
3 NOV 2023

**REGISTER BEFORE 1ST NOVEMBER**

**STAFF CO-ORDINATOR**  
Ms.R.Gayathiri

**STUDENT CO-ORDINATORS**  
Janani D - 7550247590  
Shanmuga priya P - 9789917164

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**quasar\_23**  
**quasar\_eie**

# SERIAL BINGERS

A World which has Grand line, Westeros, Hotel Del Luna and all the other fictional places together. Serial Bingers 3.0 challenges your knowledge of anime, series, and K-drama. Dive into the captivating worlds of your favorite shows, answer questions, and compete to secure the prize. It's a quest for knowledge and a celebration of your passion for these fantastic genres.



The poster features a central image of a person's face with a glowing mask. The mask has a circular emblem in the center with the letters 'SB' and several small character icons. The text 'SERIAL BINGERS' is written in a stylized font across the mask. The background is dark with circuit-like patterns.

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**EVENT DATE**  
**3 NOV 2023**

**CASH REWARDS OF UPTO ₹ 1000**

**REGISTER BEFORE 31ST OCT**

**STAFF CO-ORDINATOR**  
Mr. R. Premkumar

**STUDENT CO-ORDINATORS**  
Prashithaa N - 6369867802  
Yogabhuvaneswari U - 7358060680

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**quasar.23**  
**quasar.eie**

**QR CODE**

# MELODY MAYHEUM

Take a unique audio journey at our thrilling music event! Take in a heart-pounding blend of beats, soul-stirring melodies, and throbbing genres. An memorable day of rhythm and connection is guaranteed by our program. Come experience a musical symphony that captures the energy of entertainment in every note. Prepare for fun with even more thrilling games in our event.

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**QUASAR'23** ⚡  
**Melody Mayhem**

CASH REWARDS OF UPTO  
₹1000

EVENT DATE  
**3rd NOV**  
2023

REGISTER BEFORE 31st OCT

**STAFF CO-ORDINATOR**  
Dr.T.Sathieskumar

**STUDENT CO-ORDINATORS**  
Ashifa M - 9790922459  
Dilli rani D - 9384964573

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quasar\_eie

# STUDENT TALKIES

"Student Talkies" is a testament to the resilience of the human spirit, a reminder that even in the darkest of times, the echoes of compassion and unity can still resound unbroken. This short film will challenge and inspire both the filmmakers and the audience, prompting them to reflect on the importance of empathy, community, and the enduring human spirit. "Student Talkies" is a profound exploration of the bonds that tie us together, even in the face of a world fractured by catastrophe.

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CASH REWARDS UPTO  
**₹2000**

**EVENT DATE**  
**3<sup>rd</sup> NOV**  
2023

 **REGISTER BEFORE 31<sup>ST</sup> OCTOBER**

 **quasar.23**

 **quasar.eie**

**STAFF CO-ORDINATOR**  
**Mr. B. Rajapandian**

**STUDENT CO-ORDINATORS**  
Senthamizh selvan S - 8681994760  
Manupriyan S R - 8220869892

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# VIBES VOYAGE

Prepare yourselves for a transcendent expedition into the heart of music, and explores the depths of human emotions through harmonies, beats, and rhythms. A Journey Through Sound". Join us on this musical adventure that promises to ignite your senses and stir your soul.

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**VIBES VOYAGE**

EVENT DATE  
**3 NOV**  
2023

Register Before 1st November 🎵

Cash Rewards of upto  
**₹1500**

 **quasar.23**

 **quasar.eie**

STAFF CO-ORDINATOR  
Dr.K.Madhanamohan

STUDENT CO-ORDINATORS  
Harinarendran K - 9952309556  
Akshaiy S K - 9360253644

SCAN ME



# WAR ZONE

Enter as a squad and drive to explore the vast ERANGEL in the wild, where legends emerge in smoke and fire. Ambush, snap, survive, rise from the ashes, and dominate the matches to turn up the heat and turn up the fun! In BGMI, the last circle delivers the ultimate survival struggle. To make it out alive, you must prepare wisely, make quick decisions, and execute your strategies flawlessly. This title puts greater pressure on you as the size of the play zone shrinks, making victory increasingly elusive.

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**WARZONE**

  
CASH REWARDS OF UPTO  
₹ 1000

  
EVENT DATE  
**3 NOV** 2023

REGISTER BEFORE 2<sup>ND</sup> NOVEMBER

 **quasar.23**

 **quasar.eie**

STAFF CO-ORDINATOR  
**Mr.K.Madhana Mohan**

STUDENT CO-ORDINATORS  
**Mugesh - 9551155880**  
**Vasantha Kumar - 6374206455**

SCAN ME 

# DEPARTMENT ACTIVITIES

- The Department of EIE, in association with the MoEs Institutions Innovation Council (SEC-IIC), conducted a three-day entrepreneurship awareness camp between 20.12.2022 to 22.12.2022 for the benefit of second year students of the Department of Electronics and Instrumentation. The sessions were handled by six different industry personnel from reputed industries. This EAC was an eye-opening session for budding young minds, and it aimed to create awareness among the students and faculty about various facts of entrepreneurship as an alternative career option as well as highlight the merits of pursuing such an option. The EAC Camp imparted a thought insight into the various aspects of entrepreneurship, enterprise creation, technical know-how, credit sources, and changing market trends in a global scenario.



- Department of EIE have successfully conducted Creoista 4.0 on 15th November 2022. Thanks to our Chief Guest Mr.K.Srinivasan , AGM - Projects -MEA Cluster ,VA TECH WABAG LTD. , Chennai for accepting our invitation and providing us with an incredible thought-provoking speech. Congratulations to all the participants and prize winners for their enthusiastic participation. Special thanks to all student volunteers for their tremendous timeless support. Thanks to the management and Faculty for bringing their expertise and experience around the table in making this event a grand success!



- Department of EIE has conducted SKILLRACK AWARENESS PROGRAMME on 18th October 2022 for the benefit of student community to know the importance on problem solving skills which every Sairam Institutions student can acquire by regularly practicing in Skill Rack platform.



- Department of EIE in association with INDIAN SOCIETY FOR TECHNICAL EDUCATION , THE INSTITUTION OF ENGINEERS (INDIA) and INSTRUMENT SOCIETY OF INDIA has conducted a Guest Lecture on "HOLISTIC DEVELOPMENT ON UHV-II" on 23.9.2022. Dr.V.Sumathi, Assistant Professor/SEC & Regional Coordinator of AICTE-NCCIP UHV (Southern Region of India) acted as the resource person and delivered a thought provoking session which made the gathering to think about the necessity of moral teachings to mankind.



- Department of EIE in association with INDIAN SOCIETY FOR TECHNICAL EDUCATION , THE INSTITUTION OF ENGINEERS (INDIA) and INSTRUMENT SOCIETY OF INDIA has conducted a Guest Lecture on "ESSENTIAL PREPARATION STRATEGIES FOR TECHNICAL RECRUITMENT PROCESS" on 22.9.2022. The session delivered by Mr.S.Venkatraman, Patent Analyst, Dolcera Corporation, Hyderabad was very insightful and will provide our students a way to approach technical recruitment differently using a straightforward method.



- Department of EIE in association with Skill Development club of Sri Sairam Engineering College completed "TWO DAY WORKSHOP ON DESIGN ON DESIGN OF CONTROLLERS FOR ELECTRICAL AND PROCESS CONTROL APPLICATIONS USING MATLAB" on 19.9.2022 and 20.9.2022 .Dr. S. Durgadevi ,Associate Professor/EIE and Ms. K. Thirupurasundari, ,Associate Professor/EIE acted as resource persons of the workshop that aids in building a proper foundation with MATLAB®.



- Department of EIE has successfully conducted Guest Lecture on "HOW ENGINEERING CAN BE REWARDING" on 25.8.2022. We are sure that by participating in this session our department students have gained useful knowledge and innovative ideas through the real-world life experiences delivered by our proud 2010-14 Batch Alumnus Mr. Gautham Haribabu ,Test Engineer ,CGI, (Canada).



- Department of EIE in association with Skill development club conducted two days workshop on “ELECTRONIC CIRCUIT DESIGN AND ITS HARWARE IMPLEMENTATION” on 15.12.2022 & 16.12.2022 for The second year students of EIE. Intensive training sessions were conducted for simulating programs using Tinkercad software for interfacing input and output devices with Arduino controller by the resource persons Ms.K.Thirupura Sundari, Asso Prof/EIE and Dr.S.Durgadevi, Asso Prof/EIE.



- Department of Electronics and Instrumentation Engineering in association with IEEE Control System Society SB Chapter organized a webinar on “VISION CONTROL SYSTEM BASED ON IMAGE ANALYSIS” on 30th November 2022.

This block contains three distinct images related to the webinar. On the left is a promotional poster for the "WEBINAR ON VISION CONTROL SYSTEM BASED ON IMAGE ANALYSIS" hosted by SAI RAM ENGINEERING COLLEGE. The poster lists the speaker as Dr. JOSHAN ATHANESIOUS I, an Assistant Professor at Vellore Institute of Technology. In the top right is a photograph of a large audience seated in a hall, attending the webinar. In the bottom right is a screenshot of the Zoom meeting interface, showing a presentation slide with a diagram of a vision control system.

- The Department of Electronics and Instrumentation Engineering in association with MOE Institution Institution's Innovation Council (IIC) Organized a workshop on “Entrepreneurship and Innovation as Career Opportunity” on 8th December 2022. The resource person of the event is our proud Alumni Mr.Muthuvel.E , CEO-Cloakz Consulting.



- Dr.C.Komathi received a Matching Grant fund of 24000 Malaysian Ringgit from Universiti Teknologi PETRONAS (UTP) Malaysia for the research project entitled “Design and development of IoT based Intelligent Adaptive Fuzzy-Pi Cascade Controller for Regenerative Braking in Electric Vehicles”
- Project expo 2023 was organized for the final year students of the Sri Sairam Engineering College of EIE department on 23.3.2023 Dr S. Muthu Manikam associate professor RMK College of Engineering and Technology was the chief guest and evaluated the project presented by the students. The major objective of organizing this exhibition was to provide the platform to Unleash the students' potential by showcasing their innovative projects developed in the final year. This provided an opportunity for the students to demonstrate their learning experience.



- Sairam EIE in association with MOE's Institution Innovation Council (SEC-IIC), IIE, ISTE & IEEE control system society conducted POWER SEMINAR ON "INNOVATIONS AND INDUSTRY EXPECTATIONS IN ARTIFICIAL INTELLIGENCE " on 24.3.23.. The resource person Mr.Subramani Arumugam, Data Scientist, Latentview. Analytics shared the industrial expectations in the emerging field of Data Science to the students of the EIE Department.
- Sri Sairam EIE in collaboration with CENTER FOR DEVELOPMENT OF ADVANCED COMPUTING (C-DAC) - BENGALURU, Government of India have set up an &quot;C-DAC IOT RESEARCH LABORATORY & quot; to enhance research activities in different application areas of IoT like smart home, smart village, smart healthcare, smart grid, smart agriculture, industry 4.0 and wearable IoT devices etc. Shri. Shrikrishna S Chippalkatti, Joint Director & Lead, Firmware Development and IoT Security, Centre for Development of Advanced Computing (C-DAC), Ministry of Electronics and Information Technology (MeitY), Government of India, Bengaluru inaugurated the C-DAC IoT Research Laboratory and emphasized the need to promote innovation among students using cutting edge technologies and highlighted the prominence of market opportunities and potential applications of IoT.

- Sri Sairam institution has successfully conducted the SAIRAM SDG INNOVATHON 1.0 Demo Day and Grand Finale on 30.3.2023 and 31.3.2023. 1648 participants presented their ideas in 35 different domains with 353 successful prototypes and competed in the event. EIE dept, is very happy to congratulate Nithyashree N and JANANI D of Third year EIE and their Project guide Ms.Subha.S, Associate Professor/EIE for winning the 2nd Prize for the Project titled & quot;IoT based health monitoring system & quot; under SDG Goal number 1 in the SAIRAM SDG INNOVATHON 1.0.
- An initiative to generate Mass Entrepreneurship.



- Sri Sairam EIE in association with IEEE Control System Society of Sri Sairam Engineering College has successfully organized an Industry sponsored and certified training program for Electricians from Panasonic Company on 24.5.2023.



- Sri Sairam EIE through their exciting visit to the ACMEE 23 expo at Chennai Trade Centre, students from the EIE department second year and faculty member Mr. Premkumar have exponentially increased their knowledge and skills! The " ACMEE 2023: 15th International Machine Tool Exhibition & quot; offered them explore technology and receive priceless exposure. Their horizons were greatly extended, and their minds were completely blown.



# PLACEMENTS (2022 - 23)

**DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING**  
Hearty congratulations to our students placed through Campus Interview as  
**SOFTWARE ASSOCIATE / ENGINEER TRAINEE 2023 BATCH**

**SAI RAM ENGINEERING COLLEGE**  
An Autonomous Institution  
West Tambaram, Chennai - 44

**SALARY PACKAGE RANGES FROM 4.50 LPA to 16 LPA**

**COMPANIES:** TCS, cognizant, FOXCONN, HCL, TCS Pega, accenture, FEDERAL BANK, Hexaware Pega, IBM, Kaar, Sairam.

**STUDENTS PLACED:**

- TCS:** CANDES JUDELIN PERREIRA, GURUPRAKASH ARUN CHITHAMBARAM, JAGANESH V, KAVYA K, LINGESH S, M A KRISHNA SAI, MAADHAVAN H, NARENDRA L P, NIVETHA M, SAKTHIVEL R, SRI HARI PREYA S.
- cognizant:** ADLIN JENISHA C, CANDES JUDELIN PERREIRA, HARIHARAN M, HELLER MOHAMMED RAJA M, KRISHNA SAI M A, MEDHANA RAJIV S, NIKITHA S, RISHI M, RITHI S.
- FOXCONN:** GANESH H, HARINI D, JENFER S, KIRTHIKA K S.
- HCL:** ADIRAKI V, ARUNKUMAR M, YUVASHREE R.
- TCS Pega:** HARESH S S, PUNTHAVEL C.
- accenture:** SABAREESHWARAN N, RAJA SURYA S.
- FEDERAL BANK:** ASWIN RAJA G, PUNTHAVEL C.
- Hexaware Pega:** OM VARUN K, SUNEESH K S.
- IBM:** OM VARUN K.
- Kaar:** SUNEESH K S.

Our students from batch 2019-23 are placed in various companies across both IT & core sectors.

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**SOFTWARE ASSOCIATE / ENGINEER TRAINEE 2023 BATCH**

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West Tambaram, Chennai - 44

**SALARY PACKAGE RANGES FROM 4.50 LPA to 16 LPA**

**COMPANIES:** ITC INFOTECH, M, LTIMindtree, virtusa, L&T infotech, SUN INDUSTRIAL, vufam, ZOD, KOLCASA.

**STUDENTS PLACED:**

- ITC INFOTECH:** ADLIN JENISHA C, CANDES JUDELIN PERREIRA, MEGHANA RAJIV S, NIKITHA S, BHARANI KUMAR P, AISHWARYALAKSHMI G, EASHVAR N, HELLER MOHAMMED RAJA M, KEERTHANA K, GAUDHAM P, HARISHANKER A K R.
- M:** BHARANI KUMAR P.
- LTIMindtree:** AISHWARYALAKSHMI G, EASHVAR N, HELLER MOHAMMED RAJA M, KEERTHANA K.
- virtusa:** GAUDHAM P, HARISHANKER A K R.
- L&T infotech:** ARIMANYU E, SAKTHI VISAGAN S.
- SUN INDUSTRIAL:** JAYASUDHA K, BACHITH KANNA M, VJURY CHANDRAN M A.
- vufam:** VJURY CHANDRAN M A.
- ZOD:** BITHUN BALAJI S, SRAGANESH D.
- KOLCASA:** NANDINI S.

# IEEE SOCIETY ACTIVITIES

## WEBINAR ON VISION CONTROL SYSTEM BASED ON IMAGE ANALYSIS

“The Webinar On Vision Control System Based On Image Analysis” Sri Sairam EIE in association with IEEE Control Systems Society of Sairam Institutions has successfully conducted a seminar by JOSHAN ATHANESIOUS J on 30.11.2022.



The poster is for a webinar titled "WEBINAR ON VISION CONTROL SYSTEM BASED ON IMAGE ANALYSIS". It features a blue and white color scheme with a circuit-like background. At the top, there are logos for RAISE FOMs, AICTE, NIRF, and Sairam Engineering College. The college's name is prominently displayed in the center. Below it, the text states it is an Autonomous Institution affiliated to Anna University and approved by AICTE. The Department of Electronics and Instrumentation Engineering and the IEEE Control Systems Society are also mentioned. The webinar is hosted on Zoom on Wednesday, 30.11.2022, from 10:40 am to 12:35 pm at Smart Classroom 1. A QR code for registration is provided. The resource person is Dr. Joshan Athanesious J, Assistant Professor Senior Grade 1 at Vellore Institute of Technology. At the bottom, a table lists the organizers: Ms. S. Subha (IEEE CSS Chapter Advisor), Dr. K. Renganathan (HOD / EIE), Dr. K. Porkumaran (Principal / SEC), and Shri. Sai Prakash LeoMuthu (Chairman & CEO Sairam Institutions).

**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)

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**IEEE Control Systems Society**

**WEBINAR ON VISION CONTROL SYSTEM BASED ON IMAGE ANALYSIS**

**HOSTING ON ZOOM**  
30.11.2022, Wednesday  
@ 10.40 am to 12.35 pm  
At Smart Classroom 1

**Registration Link**

**Resource Person :**  
**Dr. JOSHAN ATHANESIOUS J**  
Assistant Professor Senior Grade 1,  
School of Computer Science and Engineering (SCOPE),  
Vellore Institute of Technology, Chennai – 632014.

<b>Ms. S. Subha</b> IEEE CSS Chapter Advisor	<b>Dr. K. Renganathan</b> HOD / EIE	<b>Dr. K. Porkumaran</b> Principal / SEC	<b>Shri. Sai Prakash LeoMuthu</b> Chairman & CEO Sairam Institutions
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# Hands-on Training on IoT and Robotics in collaboration with KITE (KALAM INSTITUTE FOR TECHNICAL EDUCATION)

The hands-on training offered by the Kalam Institute of Technical Education on Arduino, IoT, and Robotics was a comprehensive training program designed to provide participants with hands-on experience and in-depth knowledge of essential tools and concepts. The event was conducted by experts in the field, the workshop provided practical exercises and demonstrations, along with plenty of opportunities for Q&A and interaction with other participants. By the end of the workshop, they had gained a comprehensive understanding of Arduino, IoT, and Robotics and were equipped to apply these skills in their future projects and endeavors.



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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

IEEE Control Systems Society

**DATE : 20.03.2023 & 21.03.2023**  
**TIMINGS : 9.30AM TO 3.30PM**  
\*Refreshment will be provided  
\*Participants must carry their laptop

*Cordially welcome you for*  
**MoU SIGNING & 2 DAYS HANDS-ON TRAINING WORKSHOP ON IOT AND ROBOTICS IN COLLABORATION WITH KITE**

Registration Link  


**KALAM** Kalam Institute for Technical Education (KITE)

**Ms. S. Subha**  
IEEE CSS Chapter Advisor

**Dr. K. Renganathan**  
HOD / EIE

**Dr. K. Porkumaran**  
Principal / SEC

**Shri. Sai Prakash LeoMuthu**  
Chairman & CEO  
Sairam Institutions

# IEEE Sponsored Training for Industry Professionals

The IEEE CONTROL SYSTEM SOCIETY SEC SB chapter, conducted training for industrial professionals by Ms.Subha.S, Associate professor and chapter advisor of Control system society.

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

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

**IEEE Control Systems Society**

**TRAINING FOR INDUSTRY PROFESSIONALS**  
DATE: 24.05.2023(WEDNESDAY)  
TIMING: 9.00AM TO 4.00PM

<b>Ms. S. Subha</b> IEEE CSS Chapter Advisor	<b>Dr. K. Renganathan</b> HOD / EIE	<b>Dr. K. Porkumaran</b> Principal / SEC	<b>Dr. Sai Prakash LeoMuthu</b> Chairman & CEO Sairam Institutions
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# WIN GATE 2024 EXPERT TIPS AND TRICKS

Dr.Amit Kumar Tripathi, E Grade Scientist working in DRDO. He has scored 98 percentile for four times with constituency. He gave more insights to crack GATE EXAMINATION by attempting questions with logical thinking within a minute and tips to solve the complicated questions. The Webinar was an intellectual session, as participants gained practical knowledge to crack GATE 2024.

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An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi  
Accredited by NBA & AACSB | An ISO 9001:2015 Certified and ISO 27001:2005 certified institution  
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DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING  
IN ASSOCIATION WITH  
IEEE CONTROL SYSTEM SOCIETY



**WIN GATE 2024  
EXPERT TIPS AND TRICKS**



**Dr. AMIT KUMAR TRIPATHI**  
Scientist-'E', Control Law (CLAW)  
Directorate of ADA  
Bangalore



YEAR	PERCENTAGE
2006	98.34
2007	98.27
2008	98.23
2009	98.20

**HOSTING ON GMEET**  
 29th September 2023 Saturday  
@ 1:00 p.m to 3:00 p.m

Registration  
Ends on 28th sept  
8:00 p.m





Dr. S. Subha IEEE CSS Chapter	Dr.K.Renganathan HOD / EE	Dr. K. Porkumar Principal	Dr. Sai Prakash LeeMathu Chairman & CEO
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# COFFEE WITH



**Dr. C.R. RENE ROBIN**

M.E., Ph.D , Professor (CSE) & Dean (Innovation)  
Sairam group of institutions.

1.What is your current state of mind and how do you feel about being in this position sir?

Ans: I am Head of Innovation, Basically a professor in Computer Science Engineering. Sairam has given me the opportunity to take of innovation. It holds the responsibility to convert student's idea into innovation because the world is in need of innovation. We cannot depend on large number of innovation from corporate and most of the brains are pooled in the education institutions .So I am concentrating on students in bringing their ideas and counting them into innovation.

2.So how important is innovation and why do we need innovation in the first place sir?

Ans: Before innovation we need to talk about invention and discoveries. Innovation came from inventions and discoveries, these two tasks are very difficult. Discovery is tedious task. We don't want you to discover anything because people have already discovered and sacrificed their life . Invention is also a risky process. We don't want you to invent anything because people have invented a lot. Innovation is nothing but making it change from the existing based on the users requirements. We are in need of a large number of innovations and it's happening everywhere .The possibilities of it are anywhere you can bring. For example, the chair which I am sitting in ,if I feel uncomfortable I can come up with an innovative design that will become a innovation and the pen which am writing ,if i feel uncomfortable i can make some kind of innovation. So it is a part of our day-to-day life. It's not something like how Colombus discovered America and Vascoda Gama discovered India .Going far and sacrificing everything ,facing uncertainties .You people don't have patience for all these things, that's why we recommend going for innovation.

3.What's the driving force behind the responsibilities of being dean of Innovation Sir?

Ans: Very simple, I became Dean of Innovation without knowing the proper definition of Innovation. It's all come from learning and experiencing and the accountability given to me. More than responsibility it is accountability. I thank our Chairman and CEO Dr. Sai Prakash Leo Muthu sir has given me this responsibility and forced me to take this. Sir wanted me to take innovation and from day one i started learning about it. And all I Am doing in innovation are my learnings and its outcomes. My father used to say "Till death on must learn" I don't know in which intention he said in that time but i am still continuing it.

4.If current technology was available in your days ,what would have been your career?

Ans: I had a fire in me to come up and do something in life but my passion was something else. My passion was in media. I wanted to be a media person, I used most of my days to fit into media. I wanted to be a newsreader and anchor so i practiced myself for that area and succeed also and became a news reader in Doordarshan. I was in that field from 2004 till near 2009 and an anchor in some private channels. Then I gave up on it because of my research and it totally turned to another path. When the question raised whether you want to go into media or teaching/research ,I opted for teaching.

5.Can you share your experience in studying in Anna University sir?

Ans: One of the better accomplishments i did is doing my PG in Anna University. Those days it is very prestigious to study there that to computer science engineering is called “King of engineering”. It was written by the HOD in his car’s rear side. I still remember ,yesterday i had a talk in Satyabama university I remembered professor Dr. Rajini .In zeroth review madam said that even if it is 10 lines of code which is written by you, we will accept it. That kind of mindset most of the academicians don’t have .We believe on quantity and not quality. This i learned from them . I remember my supervisor Dr .G .V. Uma ,she is no more .We lost our great academician . I learnt a lot from her and one more guru DrT.R.Natesan. They not only taught me but also they touched my life and still the experience I got from anna university and I am surviving with it. Implementing everything whenever I get Opportunity and I used to implement or apply whatever I learnt.



**Dr.K.Parvatham**

Professor, Mathematics  
Sri Sairam Engineering College



1. You have worked for 30 years ma'am that's so inspiring. You have strong passion for mathematics, so can you share your love for this subject?

Ans: I started my career in the year 1989 as a mathematics teacher at Polytechnic. My passion for mathematics was because of my math teacher. He was working in a government school but he was doing a lot of activities i.e. he used to call other school students and conduct tests and coaching classes. He did a lot of work for higher secondary students. Only at that time, I got a passion for mathematics. I didn't want to go for engineering. At that time we had an entrance exam for engineering and I didn't take it. On my twelfth, I decided to teach mathematics. I got a job in NAC also but I didn't go for it. I thought of completing my Ph.D. in mathematics so I continued with it. My passion towards mathematics was because my teacher's name is Sri Darmarajan , highschool teacher. He did a lot for the rural area children. Even i dedicated my M.Phil thesis to him. He is no more , still I visit his wife and children.

2. You have an amazing career and personal life.Can you share the strategies which you have used for balancing them ?

Ans: As far of my concern I will not say personal and professional life are different. Only if you do good in your personal life you can perform well in professional life. It's not like I have to manage my personal life separately and my professional life separately. But it is important to know what we have to perform at the given time. After going home I still do some college works because it is not like a 9 to 5 hour job where i should complete all my work in college .I don't follow like that , if necessary i will do my work in home also but there should be a balance .I would say that this should be 50% and that should also be 50%.You should not give importance to one and ignore the other ,if that the case then i don't think you can balance both. Both professional and personal should be balanced. Here, if I feel my importance at that time, give importance to that and concentrate on it. If I feel I have to do more work, I concentrate on my job. My family members are supportive. My husband and son supports me even if i ask help. The equal importance should be given to both, then only you can shine in both the things. This is what i think as far as i am concerned.

3. You are working in this institution for so many years. So you have seen generations of students. What change do you see in the students?

Ans: In student's mindset there is a lot of difference. See, I start my career in this institution in 2005. Still the passed out students used to talk, they used to come home.

## Rapid Fire Questions

1. What is your hobby mam?

Answer: Cooking and reading books. First, it was only reading books. After getting married I also loved cooking.

2. How often do you spend time for yourself? And what do you do in that time mam?

Answer: Daily I spend some time for myself. I go for a walk and watch TV and be alone for some time.

3. As a senior faculty of our institution, you are an inspiration for other people. Who is your Inspiration?

Answer: Lakshmi madam of this institution, is no more now. She is my inspiration.

4. Most of the students find mathematics difficult what kind of advice will you give them to motivate them and why do people have that mindset in the first place?

Answer: I would not say students to do hard work. That's why they find math very difficult in the first place. I also spend a lot of time in math when compared to other subjects in school. It's not a tough subject actually. When compared to other subjects you can score well in math easily, only when you have interest for it. You have to understand and spend some time for it.

5. You have taught both in online and offline mode, Which do you prefer mam?

Answer: I will prefer offline mode. For this generation students, it is a challenging task to teach in online mode, grabbing their attention for that 50 minutes is difficult nowadays.

6. Your favorite quote or the one thing you follow?

Answer: Experience is the comb that nature gives when you're bald." It's a Chinese proverb I read when I was in school. This got into my heart and I still remember it. I often think about it when I get low.

# STAFF ACTIVITIES

- Dr. K. Renganathan, The Head Of The Department, has worked in Sairam Defence Innovation to Startup Hackathon 1.0.
- Dr. K. Renganathan, The Head Of The Department, has worked as mentor for two students undergoing VRAP in UTP Malaysia.
- Dr. K. Renganathan, The Head Of The Department, has worked for development of Anna University Research Centre in the department.
- Dr. K. Renganathan, The Head Of The Department, has worked as mentor for 2 doctors of Chettinad Medical College to develop Innovation Products.
- Mr. B. Rajapandian, Associate Professor has published a conference paper in 2022 International Conference on Power, Control and Transmission Systems (ICPECTS) in the title named “SMART SOLID AND WET WASTE MANAGEMENT SYSTEM” and also published a conference paper in 8th International Conference on Advanced Computing and Communication Systems , ICACCS 2022 in the title named “SMART DIAGNOSIS OF DISEASE USING MACHINE LEARNING”.
- Mr. B. Rajapandian, Associate Professor has published a conference paper in 2022 in 8th International Conference on Advanced Computing and Communication Systems, (ICACCS) in the title named “DESIGN AND ANALYSIS OF SEPIC CONVERTER CONTROLLER WITH FILTER FOR BLDC APPLICATION”.
- Dr. M. Nalini, Professor, has Published paper in 3rd International Conference on Power, Energy, Control and Transmission Systems, ICPECTS 2022 - Proceedings, 2022 titled "Application of IoT with PIR and Air Quality Gas Sensors for Classrooms and Buildings", "Automatic Optimized Voice Based Gender Identification for Speech Recognition" and "Detection of Parkinson's Disease Using Voice Changes and Hand-tremor".
- Dr. M. Nalini, Professor , has played a role as Session Chair for “ EAI International Conference on Intelligent Computing and Next Generation Wireless Networks” on 20-10-2023
- Dr. M. Nalini, professor, has worked as Reviewer for The Fourteenth International Conference on Computing, Communication and Networking Technologies

- Dr. K. Anbumani, Associate professor, has contributed as a Mentor of ATL Tinkerpreneur 2023



- Dr. K. Anbumani, Associate professor, has given a guest lecture in SRM Valliammai Engineering College on the topic "Electrical Circuit Devices and Control Systems".
- Dr. K. Anbumani, Associate professor, has contributed as reviewer in the conference ReDCySec - 2023 held at Sharda University, Greater Noida.
- Dr. K. Anbumani, Associate professor, has successfully completed the one week course on "Modelling, Simulation And Control of Renewable Energy Systems (MSCRES) - 2023" held at Netaji Subhas University of Technology, New Delhi, India.
- Dr. K. Anbumani, Associate professor, has Successfully completed the Certified Course on Panchayat Raj Administration and Rural Development on May 2023.
- Dr. K. Anbumani, Associate professor, has Published a paper Titled “Identification of Breast Cancer using Jelly fish Based Deep Wavelet Auto encoder” at 2023 9th International Conference on Advanced Computing and Communication Systems, ICACCS 2023.

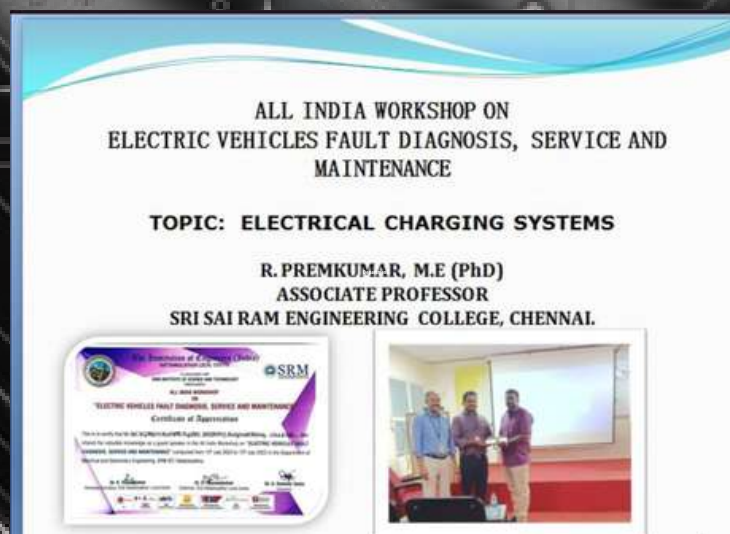
- Ms. K. Thirupura Sundari, Associate professor has published a book Chapter titled “Smart power strip for household power outlet control and energy conservation using IoT” in the year 2023.
- Ms. K. Thirupura Sundari, Associate professor has published an article titled “Linear Quadratic Regulator-Based PI Control of a Non-Ideal Quadratic Boost PFC Converter for Low-Power Wind Energy Conversion Systems Supplying Uninterruptible DC Power” in IEEE Journal of Research.
- Ms. K. Thirupura Sundari, Associate professor has established CDAC -IOT Research lab on 24.3.23 followed by hands on session using CDAC IOT LAB KITS from 24.3.23 to 25.3.23.



- Ms. K. Srividya, Assistant professor has contributed as Reviewer for the ICECI-2023, organized by the Department of Computer Science, AMU, Aligarh, India.
- Ms. K. Srividya, Assistant professor has participated in International Level Virtual Faculty Development Program on “Research Advancements in Intelligent Computing Technologies”, organized by Department of Computer Science and Engineering.
- Ms. K. Srividya, Assistant professor has completed National Initiative for Technical Teachers Training which was certified by All India Council for Technical Education (AICTE).



- Ms. T. Tamilselvi, Assistant professor has filled the Patent Titled “Automated Underground Pipeline Monitoring System For Safety”.
- Ms. T. Tamilselvi, Assistant professor, has published the paper titled “Implementation of Simple Low Cost PV Panel Characterization Kit using Arduino” in the 2022 Turkish Journal of Computer and Mathematics Education.
- Mr. R. Premkumar, Assistant professor has given a guest lecture on the topic “Electrical Charging System” in All India Workshop On Electric Vehicles Fault Diagnosis, Service And Maintenance.
- Mr. R. Premkumar, Assistant professor has published a paper titled “E-waste infused bituminous mix for flexible pavements” in Materials Today: Proceedings” in the year 2023.



- Ms. S. Premalatha, Assistant professor has published a paper on "Analysis of Mineral Density in Bone Using Deep Learning and Smart Tracking System" in 2022 International Conference on Communication, Computing and Internet of Things.
- Ms. S. Premalatha, Assistant professor has published a paper on "Smart Diagnosis of Disease Using Machine Learning" in the 2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS).
- Ms. S. Premalatha, Assistant professor has published a paper on "Infection Prevention and Control Using Self Sterilizing Door Handle for Covid" in the 2021 4th International Conference on Computing and Communications Technologies (ICCCT)
- Ms. S. Premalatha, Assistant professor has published a paper on "Design of a Hybrid Model for Controlling Flow Rate Using Venturimeter" on 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)
- Ms.N.NithyaRani, Assistant professor has participated in International Level Virtual Faculty Development Program on “Research Advancements in Intelligent Computing Technologies”, organized by Department of Computer Science and Engineering from 19.12.22 to 23.12.22.
- Ms. N.NithyaRani ,Assistant professor has completed the ICT (Information and Communication Technology) **DIGITAL TEACHER TRAINING** from 2.02.2023 to 17.02.2023.
- Ms.N.NithyaRani , Assistant professor has completed National Initiative for Technical Teachers Training which was certified by All India Council for Technical Education (AICTE).
- Ms.N.NithyaRani, Assistant professor has completed completed the course Introduction to R in Great Learning.





- Mr. M. Subramanian, Assistant professor has published paper titled “Melanoma Skin Cancer Detection using a CNN-Regularized Extreme Learning Machine (RELM) based Model” in the IEEE Conference 2022.
- “Deploy Machine Learning Model for Effective Bank Telemarketing Campaign” in the IEEE Conference Publication 2022
- “Deep Learning Techniques in Skin Cancer Detection: A Survey” in the IEEE Conference Publication 2022
- Ms. R. Gayathri, Assistant professor has published a paper titled “Brain Tumor Detection Using Soft Computing” in IEEE Conference in the year 2022.
- Ms. R. Gayathri, Assistant professor has also published paper titled “Sanitization Using Autonomous Drones” in IEEE Conference in the year 2022.
- Ms. R. Gayathri, Assistant professor has published a paper titled “AN INVESTIGATION REPORT ON SPOTING AND DIAGNOSING DISEASES FROM THE IMAGES OF BRAIN BY CONVOLUTIONAL NEURAL NETWORK METHOD USING FUSION SUPPORT VECTOR MACHINE” in the International conference on Power, Energy, Control and Transmission systems 2022.

- Dr. B. Puviyarasi, Assistant professor has published an International Journal titled, “Design and implementation of gain scheduling decentralized PI/PID controller for the fluid catalytic cracking unit”, Biomedical Signal Processing and Control, Elsevier, in the year 2022.
- Dr. B. Puviyarasi, Assistant professor has published an International Journal titled, “Design and implementation of Adaptive Mixed Fuzzy Controller for MIMO nonlinear systems”, Mathematics and Computers in Simulation, Elsevier, in the year 2023.
- Dr. B. Puviyarasi, Assistant professor has attended the six days short term training programme sponsored by AICTE and organised by Anna University on “Data Science Apply to Measurement and Control” MIT Campus, Anna University during 31.1.2022 to 5.2.2022.
- Dr. B. Puviyarasi , Assistant professor has attended Faculty Development programme on “Electrical Circuits Devices and Control Systems” organised by SRM Valliammai Engineering College during 12.6.2023- 16.6.2023.
- Dr. S. Durgadevi, Associate professor has worked as Session chair for international conference Emerging trends in Engineering and technology organized by Narashimha Reddy college of Engineering, Hyderabad.
- Dr. S. Durgadevi, Associate professor has done Question paper setting for Paavai Engineering College and St.Josesph college of Engineering and technology.
- Dr. S. Durgadevi Associate professor has worked as Reviewer for international journals such as Automatica, International journal of power electronics and drives and etc., and also contributed as a review panel member for Mock NBA visit to SSCE, Bangalore.
- Dr.S.Durgadevi , Associate professor published a Book Chapter related to Smart power strip for household power outlet control and energy conservation using IoT.
- Dr.S.Durgadevi , Associate professor published a conference paper in 7 th international conference on Electrical energy system on the title “Smart energy metering for cost and power reduction in house hold applications”.
- Dr. S.Durgadevi , Associate professor published an article in IETE Journal of Research related to “Adaptive Neuro -Fuzzy Interference system - Based Bass Gura controller for solar -powered SEPIC Converter .



- Dr.S.Subha ,Assistant Professor, Received a consultancy amount of Rs. 12500 from Infymind solutions for conducting a one day training program for Industry Professionals from Panasonic Electronics.
- Dr.S.Subha ,Assistant Professor, Conducted a orientation programme on student induction program
- Dr.S.Subha ,Assistant Professor, Resource person for Anna university sponsored Faculty Development Training Program.
- Dr.S.Subha ,Assistant Professor, Reviewer of the paper "TO IMPROVE THE RESPONSE TIME AND PROCESSING TIME IN DATA CENTRES BASED ON EFFICIENT THROTTLED LOAD BALANCING ALGORITHM" for SOCO journal.



# PAPER PUBLICATIONS

1. Dr. Renganathan, The Head Of The Department has published a paper titled “Review on Jaundice Detection in Neonates Using Image Processing ” in the 2022 International Conference on Communication, Computing and Internet of Things.
2. Ms. T. Tamilselvi, Assistant professor, has published the following papers
  - “Performance study on a mono-pass solar air heating system (MPSAH) under the influence of a PCM”
  - “Implementation of Simple Low Cost PV Panel Characterization Kit using Arduino” in the 2022 Turkish Journal of Computer and Mathematics Education.
  - “Investigation and automatic rectification of fault in photovoltaic system using perturb and observe algorithm” in the International Journal of Mechanical and Thermal Engineering 2022.
3. Ms. R. Gayathri, Assistant professor, has published the following papers
  - “Efficient Medical Image Compression Based on Wavelet Transform and Modified Gray Wolf Optimization” in the Indonesian Journal of Electrical Engineering and Informatics (IJEI).
  - “Sanitization using automatic drones” in international conference on Power, Energy, Control and Transmission systems” in the 2022. “Brain Tumor Detection Using Soft Computing” in International conference on Power, Energy, Control and Transmission systems 2022.
  - “AN INVESTIGATION REPORT ON SPOTING AND DIAGNOSING DISEASES FROM THE IMAGES OF BRAIN BY CONVOLUTIONAL NEURAL NETWORK METHOD USING FUSION SUPPORT VECTOR MACHINE” in the International conference on Power, Energy, Control and Transmission systems 2022.
4. Mr. M. Subramanian, Assistant professor has published the following papers
  - “Melanoma Skin Cancer Detection using a CNN-Regularized Extreme Learning Machine (RELM) based Model” in the IEEE Conference 2022
  - “Deploy Machine Learning Model for Effective Bank Telemarketing Campaign” in the IEEE Conference Publication 2022
  - “Deep Learning Techniques in Skin Cancer Detection: A Survey” in the IEEE Conference Publication 2022

5. Mr.B.Rajapandian, Associate professor, has published the following papers

- "Smart Solid and Wet Waste Management System"2022 International Conference on Power Energy,Control and Transmission System
- Smart Diagnosis of Disease Using Machine Learning 2022 8th International Conference on Advanced Computing and Communication Systems
- Design and Analysis of SEPIC Converter Controller with Filter for BLDC Applications

6. Ms.S.Premalatha , Assistant professor has published the following papers

- “MULTI-WAY SWITCHING SYSTEM USING IoT” 2021 4th International Conference on Computing.
- “A COMPREHENSIVE REVIEW OFEARLY DETECTION OF ORAL CANCER USING DEEP LEARNING” 2022 International Conference on Communication, Computing and Internet of Things.
- “DESIGN OF A HYBRID MODEL FOR CONTROLLING FLOWRATE USING VENTURIMETER” 2022 International conference on Power, Energy, Control and Transmission systems (ICPECTS).
- “An Efficient Detection and Classification of Acute Lymphoblastic Leukemia using CNN models”2022 2nd International Conference on Electricals ,Electronics ,Communication Computing and Automation.

7. Ms.K.Thirupura Sundari, Associate professor has published the following papers

- Smart Power Strip for Household Power Outlet Control and Energy Conservation Using IoT
- Fuzzy Logic Control of Liquid Level in a Single Tank with IoT-Based Monitoring System

8. Dr.K.Anbumani, Associate professor has published the following papers

- “Identification of Breast Cancer using Jellyfish Based Deep Wavelet Autoencoder”2023 9th International Conference on Advanced Computing and Computation Systems
- “Analysis of Missing Health Care Data byEffective Adaptive DASO Based Naive Bayesian Model” in Journal of Machine and Computing

9. Mr.K.Madhana Mohan, Assistant professor has published the following papers

- CubeSat attitude control by implementation of PID controller using python 2023 12th International Conference on Advanced Computing
- Space vector modulation techniques based speed control of induction motor using DTC
- IoT based monitoring and controlling of pressure process station
- A drowsiness detection using smart sensors during driving and smart message alerts system to avoid accidents

10. Dr.B.Puviyarasi, Assistant professor has published the following papers

- Design and implementation of Adaptive Mixed Fuzzy Controller for MIMO nonlinear systems in 2022 International Association for Mathematics and Computers in Simulation (IMACS).
- Design and implementation of gain scheduling decentralized PI/PID controller for the fluid catalytic cracking unit Biomedical Signal Processing and Control 77 (2022)
- Design and Implementation of PID Controller and Fuzzy Logic Controller for Liquid Level System in 8th International Conference on Advanced Computing and Communication Systems (ICACCS).
- Dr. B. Puviyarasi, Assistant professor has published an International Journal titled, "Design and implementation of gain scheduling decentralized PI/PID controller for the fluid catalytic cracking unit", Biomedical Signal Processing and Control, Elsevier, in the year 2022.
- Dr. B. Puviyarasi, Assistant professor has published an International Journal titled, "Design and implementation of Adaptive Mixed Fuzzy Controller for MIMO nonlinear systems", Mathematics and Computers in Simulation, Elsevier, in the year 2023.

11. Dr. M. Nalini, professor has published the following papers

- "Application of IoT with PIR and Air Quality Gas Sensors for Classrooms and Buildings" in international conference on power, energy, control and transmission system (ICPECTS)
- "Automatic Optimized Voice Based Gender Identification for Speech Recognition" 2022 international conference on Power, Energy, Control and Transmission systems
- "Detection of Parkinson's Disease Using Voice Changes and Hand-tremor" 2022 international conference on Communication, Computing and Internet of Things (IoT)

12. Mr.R.Premkumar, Assistant professor has published the following papers

- “Experimental investigation on lightweight concrete by adding polystyrene beads” in Materials Today: Proceedings 2023
- “E-waste infused bituminous mix for flexible pavements” in Materials Today: Proceedings 2023
- “Winter Thermal Suit with Auto Temperature” in Proceedings of the 5th International Conference on Inventive Research in Computing Applications 2023
- “IoT based Modern Poultry House with Enhanced Accuracy” in Proceedings of the Second International Conference on Edge Computing and Applications (ICECAA 2023)
- “Energy Generation from Bio-Waste using Normal and Chemical Decomposition Technique to Meet Power Demand in Urban Areas” in Proceedings of the Third International Conference on Electronics and Sustainable Communication Systems (ICESC 2022)

13. Dr.S.Subha , Assistant professor, has published the following papers

- “A Remote Health Care Monitoring system using internet of Medical Things (IoMT)” 3rd International Conference on Innovative Practices in Technology and Management (ICIPTM 2023)
- “Visual Object Detection in Extreme Dark Condition” 3rd International Conference on Innovative Practices in Technology and Management (ICIPTM 2023)
- “DESIGN OF COST EFFICIENT GPS BASED ANTI-THEFT DETECTION SYSTEM” 2022 1st international conference on Computational Science and Technology (ICCST)

14. Dr.T.Sathies Kumar, Associate professor, has published the following papers

- “An approach for brain tumor detection using optimal feature selection and optimized deep belief network” Biomedical Signal Processing and Control 73 (2022) 103440
- “Study of Various Machine Learning Algorithms for use with Automatic Speech Recognition” in 2022 international conference on Power, Energy, Control and Transmission systems

15. Ms.K.Srividya, Assistant professor,has published the following papers

- “Smart Elevator Cabin Sanitization and Disinfection for COVID” in 2022 international conference on Communication, Computing and Internet of Things(IoT)
- “Review on Jaundice Detection in Neonates Using Image Processing” in 2022 international conference on Communication, Computing and Internet of Things(IoT)
- “A Survey on Detection of Diabetic Retinopathy Lesions Using Deep Learning” in 2022 International Conference on Communication, Computing and Internet of Things(IoT)

16. Dr.S. DurgaDevi,Associate professor has published the following papers

- “A Review of Performance Optimization of Footstep Energy Harvester” in international conference of communication, computing and internet of things
- “Controller optimization for a single tank liquid level system” in international conference on Power, Energy, Control and Transmission systems
- “IOT Based Assistive System for Visually Impaired and Aged People” in 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and Its Control (PARC)

17. Mrs. N. Nithyarani ,Assistant professor has published the following papers

- “A research on electronic component wrecker using electro-magnetic Pulse (EMP)” in international Journal of Engineering and Advanced Technology.
- “A SYSTEMATIC APPROACH ON WASTEWATER TREATMENT USING PREDICTIVE ANALYSIS” in IEEE Conference.

# STUDENTS ACHIEVEMENTS

- Congratulations to PRASHITAA N IIIrd yr EIE , SAMYUKTHA S IIIyr EIE and Internal Mentors Dr.K.Renganathan ,HOD/EIE , Dr.M.Nalini , Professor/EIE and Mr.M.Subramanian, Assistant Professor/EIE for securing Virtual Research Attachment Programme (V-RAP) with Universiti Teknologi PETRONAS (UTP) a leading private university in Malaysia (QS WORLD RANKED UNIVERSITY)



**Sairam Engineering College** **UTP**

## Congratulations

Under Graduate students who have received  
**OFFER LETTER OF VIRTUAL RESEARCH ATTACHMENT PROGRAMME (VRAP)**  
from the **Prestigious Universiti Teknologi PETRONAS (UTP),**  
**Malaysia (QS WORLD Ranked University)**

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 <b>AFFAN.A</b> III Year/EEE	 <b>PRADEEPS</b> III Year/ECE	 <b>SAMYUKTHA.S</b> III Year/EIE	 <b>PRASHITHA.A.N</b> III Year/EIE	 <b>MADHUMITA.S</b> III Year/CE

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CEng (UK) , SMIEEE (USA) , MIET(UK) , MIE (I) ,  
Manager-India Malaysia Industrial &  
Institutional Initiative (UTP In-MIII)

**Dr. K. Porkumaran** Principal      **Shri. Sai Prakash LeoMuthu** Chairman & CEO

- Ms.T.Tamilselvi , Assistant Professor,EIE (Team Mentor), Rithi.S, Final year EIE , Karthika G IIIrd year EIE (Team Leads) , Nandini.S, Final year EIE, Rajesh.M IIIrd year and Suthanraj.M IIIrd year (Team Members) for being shortlisted for HIGH POWERED SELECTION COMMITTEE PRESENTATION , MINISTRY OF DEFENCE , iDEX DISC #6 - Problem statement defined by TROOPS COMFORTS LIMITED ( A Govt. of India Enterprise).



- Bharath Kumar M.R , Third year , Department of EIE has participated in the GRAND FINALE SMART INDIA HACKATHON 2022 on August 25-26,2022. He has presented a paper titled, “Assessment of Contact Parameters of Semi-Elliptical Soft Fingertips for Anthropomorphic Robotic Grippers”, in the 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS), Dec 2022.

- Sree Varagi S, Final Year, Department Of EIE has participated and won 3rd prize in The Global Poetry Contest conducted by The Writer's voice.
- Sree Varagi S, Third Year, Department Of EIE has received an appreciation certificate from ULLAS Ngo in collab with NSS for reaching out to Govt school students and providing SKILL ENHANCEMENT training to 9th and 10th class students.



- Azhagu Meenal P, Third Year, Department Of EIE has been selected to represent "Tamilnadu NSS" at the national Pre-Republic Day parade camp. A resplendent achievement indeed .



- Sharmila M, Third Year, Department Of EIE has Got வளரும் பேச்சாளர் விருது 2023 which is given by Kalaimamani Dr. R. Pandiyarajan sir.



- Jayakash R B and Sruthee S, Third Year, Department Of EIE, has participated and won first prize in paper presentation in the National Level Technical Symposium CYBERCREST 2K23 conducted by Department of Computer Application, B.S.Abdur Rahman Crescent Institute of Science and Technology Vandalur, Chennai.



- Jayakash R B and Sandeep Adithya K, Third Year, Department Of EIE, has won Third Place for Project Demo in VIVID 7.0 - National Level Project Competition organized by the Department Of Information Techonology, SSN College OF Engineering, Chennai on May 13 2023.



- Ishali Dikshitha R, Second Year, Department Of EIE, has won the First prize in Chemistry paper presentation convergence, National Level Symposium at Sri Sairam Engineering College.



Sree Varagi S, Final Year, Department Of EIE, has been selected as IEEEEXTREAM 17.0 AMBASSADOR (Control System Society).



- Keerthana P, Final Year, Department Of EIE, has secured Second Place in Project Presentation Event of ITRIX'23, a National Level Technical Symposium organized by Department of Information Science and Technology of CEG, Anna University .
- Keerthana P, Final Year, Department Of EIE, has secured First Place in the event Paper Presentation in the 16th National Level Symposium - McADROIT'23 organised by SME of Easwari Engineering College.
- Keerthana P, Final Year, Department Of EIE, has secured First place in the event Shark Tank in the 16th National Level Symposium - McADROIT'23 organised by SME of Easwari Engineering College.



# INDUSTRIAL VISITS



- Sri Sairam Engineering, EIE Department has organized an industrial visit to Automation Expo on 28.04.2023. Around 65 students along with one Faculty member visited.



- Sri Sairam Engineering, EIE Department has organized an industrial visit to national Institute of ocean technology Around 90 students along with 2 faculty member visited on 10.03.2023 The visit was very informative.

# PROJECT EXPO 2023

- The Project Exhibition for the the batch 2019-2023 was held on May 2023.The top three projects to win the prizes were



## Department of Electronics And Instrumentation Engineering

Rank	Project Title	Name of the Students	Name of the guide
1	An Analysis of Machine Learning algorithms for the detection of Parkinson's Disease	Sabareeshwaran.N	Dr.M.Nalini
		Krishna Sai.M.A	
		Gautham.P	
2	Enhancements Of Safety in fuel gas compressor using Plc	Akash.C.M	Mr.R.Premkumar
		Arunkumar.M	
		Hariharan.M	
		Ijazahamed.C	
3	Contact-Less hand disinfection Using Arduino and UV Lighting	V.Abirami	Dr.T.Sathieskumar
		Aishwarya Lakshmi.G	
		Aruna.R	

# ABSTRACTS

## **An ANALYSIS OF MACHINE LEARNING ALGORITHMS FOR THE DETECTION OF PARKINSON'S DISEASE**

**P. Gaudham, M.A.Krishna Sai, N.Sabareeshwaran**

**Guided by  
Dr.M.Nalini**

- Parkinson & disease is a neurological condition that is quite common and has an impact on people lives all over the world. For the condition to be successfully treated and managed, early detection and diagnosis are essential. Recent research has demonstrated that early signs of Parkinson& disease might include changes in speech, such as those in speaking rate and voice quality. In this study, we suggest a brand-new method for identifying Parkinson& disease using speech alterations. In this paper, we introduce a machine-learning model that can analyze speech samples and reliably identify Parkinson&#39;s illness. Our methods are based on the examination of several speech characteristics, including pitch, jitter, and shimmer, which are well-known to be impacted by the illness. Our results show that our method performs well when applied to a dataset of speech samples from people with and without Parkinson disease.

# ENHANCEMENT OF SAFETY IN FUEL GAS COMPRESSOR USING PLC

**Hariharan M, Arun Kumar M, Ijaz Ahmed K, Akash C M**

**Guided by  
Mr. Premkumar.R**

- Fuel Gas is a mixture of commercial butane and commercial propane having both saturated and unsaturated hydrocarbons. Indian Standard Code IS-4576 and the test methods shall govern fuel Gas marketed in India by IS-1448. In order to fill the Fuel Gas into cylinders, the pressure to be increased. Hence, Gas Compressors are used in petroleum plants. Until recently, it has been a common practice in oil fields to fuel gas associated petroleum gas resulting from the initial treatment of crude oil prior to transportation by pipeline. Fuel gas needs to be compressed for storage and transportation. Working discharge pressures of the compressors installed in oil fields are generally within 20 to 50 bar. Centrifugal gas engine-driven compressors are typically employed for this purpose. The typical power rating of a single compressor set is 150 to 3,500 kW. Compressor drive is usually fueled by the transported gas. Another application for compressors in oil field facilities is the gas re-injection for the purpose of reservoir pressure maintenance. Associated gas, or sometimes air, may be used for re-injection. Compressor working pressure for these applications is 150 to 350 bar. The Fuel Gas enters into a knockout drum for removal of any moisture / liquid particles. Any liquid in the gas will settle at the bottom of the knockout drum and displaced by a liquid pump. The gas enters into the Compressor, where the pressure is increased from 0.13 Kg/Cm<sup>2</sup> to 22.5 Kg/cm<sup>2</sup>. The Compressor is supplied with cooling water and lube oil for its proper functioning. A PLC will be employed to monitor and control the system. Various field devices will sense the present condition of the system and transmit the information to PLC. The field devices are supplied with 24VDC electrical supply for their working. These devices will return either a logic "0" or Logic "1" based on the field condition. The PLC is programmed with the safety logic, which is running continually. Based on the logic and field conditions an action will be taken on the field equipment.

# **CONTACTLESS HAND DISINFECTION USING ARDUINO AND UV LIGHTNING**

**ABIRAMI.V,AISHWARYA LAKSHMI.G,ARUNA.R**

**Guided by  
Dr.T.SATHIESKUMAR**

In order to lower the risk of disease transmission among people and among members of the medical community, hand cleanliness is more crucial than ever. We should wash our hands numerous times in the afternoon, as has been advised since the COVID pandemic started. In addition to reducing the transmission of germs from one individual to another, hand sanitizer eliminates pathogens that are already on our hands. The COVID-19 pandemic has increased interest in contactless disinfection methods. The device described in this paper uses an Arduino and UV illumination to disinfect hands without physical contact. The proposed system uses an ultrasonic sensor to identify the user's hand and turn on the UV-C lights for disinfection. The system is made to be portable and is simple to set up in public locations like businesses, hospitals, and airports. The use of hand sanitizer can help us fight COVID-19 virus effectively and reduce the usage of water. Numerous pathogens, including bacteria, viruses, and fungus, are successfully eliminated by the system's UV-C radiation. The device also has a special feature of automatic refilling of the sanitizer provided and alerting the user via messages with the help of SIM 100 GSM module. The device offers a 95% disinfection rate in less than 10 seconds, making it a quick and effective hand hygiene solution. The system can be easily controlled and customized thanks to the use of Arduino because of its cheap cost and simplicity of use. The proposed method could help people practice better hand hygiene and stop the transmission of infectious diseases, which makes it a valuable weapon in the war against COVID-19.

# PAINTINGS



**Ms. K R RupaShri**  
**EIE**  
**3 rd year**



**Ms.A Sonaa**  
**EIE**  
**3rd Year**

# DRAWINGS



**Mr. B. Mugesh**

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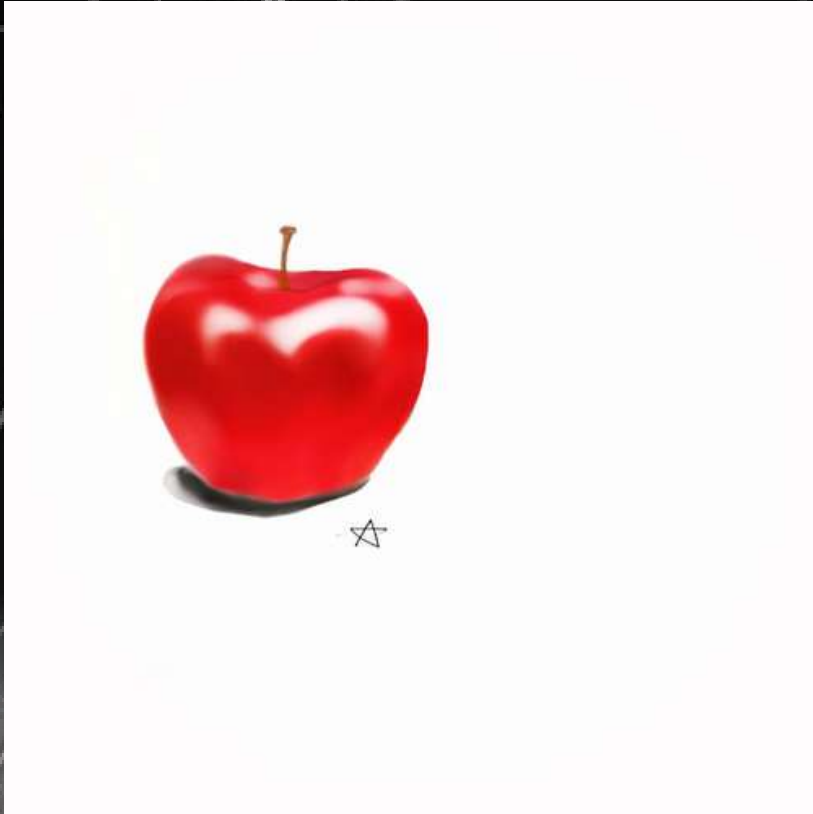
**4rd Year**

# Zentangle Art



**Ms. A Sonaa**  
**EIE**  
**3rd Year**

# DIGITAL ART



**Ms.K R RupaShri**  
**EIE**

**3 rd year**

# POETRY

## ENIGMA

SREE VARAGI S  
FINAL YR , EIE

Ain't it always a mystery?  
Getting born to grow  
And crying to be taken care of.  
Sauntering through the phases of life,  
And lamenting the rapidness of it.  
Souls being beautiful and emitting their radiance.  
Eyes being the trace to see the soul clearly dazzling.  
Feeling the warmth or the chillness around us.  
The aureate ball of fire making our day shine.  
Dew drops falling on us with a petrichor.  
Colors of flowers adding a gaze worthy.  
From blooming to withering of every living thing.  
The lands have different filters and different hues.  
Maybe a peak mountain or a deep sea, the hues matter.  
Ears to hear every tunes of life,  
From the cosmic sounds ,  
To hear our own heartbeat  
Thumping to prove our existence.  
Ebullient development of the human environment.  
Thoughts becoming expeditions  
And the tremendous race of technology.  
Beyond the globe invasions.  
Characterizing the heroes of our favorite book  
To live as a role model we visioned.  
Through the moments along our span,  
Going through every part of relationships.  
An unparalleled someone as our latibule.  
To sober or blabber the whole life.  
Freeing the yearning soul to cherish,  
Every single moment is spent wisely.  
Dwelling in the minds of closed ones,  
The moment the soul leaves the earthly body.

Sree Varagi S  
EIE  
Final Year

We build a Better Nation  
through Quality education.



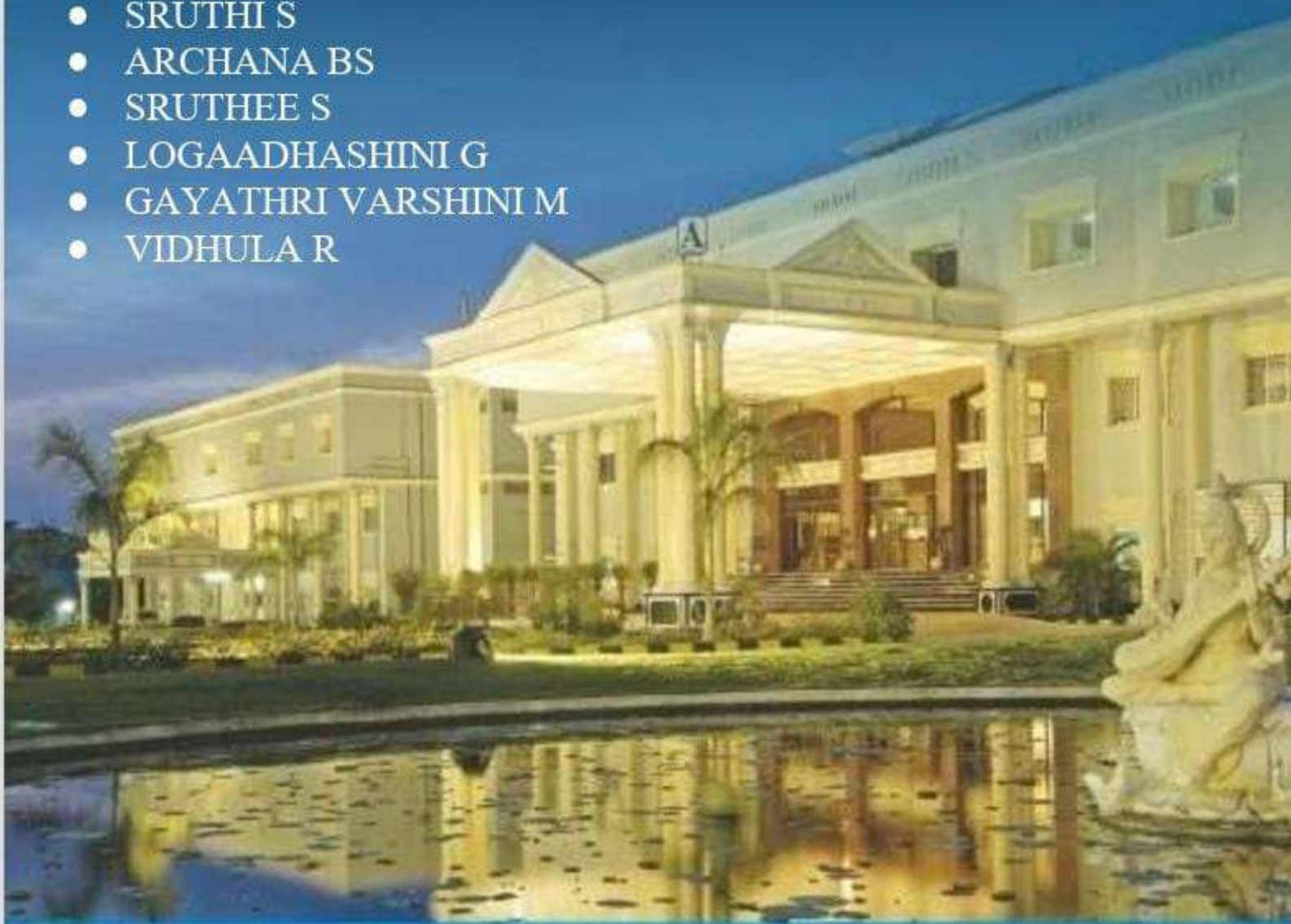
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### Sairam Group of Institutions

Admn. Office : "Sai Bhavan", 31 B, Madley Road, T. Nagar, Chennai - 17

Ph : 044 - 4226 7777 (30 Lines) Fax: 044 - 4226 7779

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