



The Instrumentation Bulletin





E I E H I G H L I G H T S



The future belongs to those who believe in the beauty of their dreams !!



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Dr. G. Joselin Retna Kumar
Professor & Head/EIE

Dear Reader,

It is with great pleasure that I present to you the sixth edition of “The Instrumentation Bulletin”. This newsletter showcases the achievements of our department, featuring a collection of intellectual contributions, funded projects, events, guest lectures, and much more.

We firmly believe that adopting the best teaching practices and fostering research excellence play a pivotal role in the holistic development of our students. Our approach emphasizes problem-based and project-based learning. Additionally, we are proud to collaborate with premier research institutes to undertake interdisciplinary research projects supported by various funding agencies.

I am also delighted to share that our faculty hold a commendable number of patents, some of which are in the advanced stages of commercialization, reflecting our commitment to innovation and industry relevance.

I take this opportunity to express my heartfelt gratitude to our management for their unwavering support and for creating a conducive environment for the department's growth. I also extend my sincere thanks to our EIE Team for their dedicated efforts in bringing this edition to life.

I hope you enjoy exploring the various activities and initiatives of our department highlighted in this newsletter. Your feedback and suggestions for improvement are always welcome.

Happy Reading!

“Teamwork makes the dream work”- John C. Maxwell

Dear colleagues,

As we close another semester, it's a privilege to bring you the sixth edition of our department newsletter, **The Instrumentation Bulletin**. This issue is brimming with updates, achievements, and events that highlight the incredible work and dedication of our students and faculty in the semester period-July to December 2024. In this edition, we celebrate the success of the remarkable achievements of our students in nationwide competitions from learning to winning. You will love to find inspiring profiles of visitors who made a difference, insights into ongoing research projects, and a recap of past events that promise to keep our community engaged and inspired.

One of the remarkable highlights this time was the motivational talk delivered by our proud Alumnus from 2009 batch ICE, currently working as a Scientist at Physics Research lab/ISRO **Dr. Rishitosh Sinha**, Distinguished Alumni awardee'23 and INSA Young associate Awardee'24, to the student and faculty team of SRMSAT 2 project mentioned on page 15.

Here's to another season of growth, discovery, and success. We hope you enjoy reading this issue as much as we enjoyed putting it together!

Wish you all a very happy and prosperous New year 2025!!

Chief Editor



Dr. Bakiya lakshmi R
Asst. Prof/EIE

Design Editor



Mr. Tharunraj V
II year AR

Content editor



Mr. Varsha R S
III year AR

Message from Industry partner

Mr. Manoj Gupta
Asst. General Manager
Mitsubishi Electric India



Wish you all a very Happy New Year 2025!!

I am delighted to address this message to the vibrant academic community of SRM University- Chennai. As we stand on the cusp of a technological revolution, cutting-edge innovations such as Automation using Robotics, Industry 4.0, the Internet of Things (IoT), and Digital Twins are reshaping industries and opening doors to unparalleled opportunities for growth and innovation. These technologies are not just buzzwords—they form the foundation of tomorrow's industries. However, with these advancements come challenges: adapting to rapid technological changes, developing scalable solutions, and ensuring sustainability. Meeting these challenges demands a spirit of innovation, resilience, and collaboration.

At Mitsubishi Electric India's Factory Automations Systems, we are committed to fostering collaboration between academia and industry. Our mission is to empower students and educators with the knowledge and skills necessary to lead in this transformative era. We focus not only on understanding the current technological landscape but also in envisioning and contributing to its future. Through initiatives like workshops, seminars, internships, skill competitions, and hands-on training at the Centre of Excellence, we aim to empower students to:

- Gain practical insights into automation systems and robotics.
- Explore the potential of IoT in creating interconnected ecosystems.
- Leverage Digital Twins for simulation and optimization in real-world applications.
- Embrace the principles of Industry 4.0 to drive smarter, more efficient manufacturing processes.

Together, let us reimagine the possibilities of industrial automation and contribute to India's transformation into a global leader in technology and manufacturing! Looking forward to seeing the talents, ideas, and enthusiasm of SRM students drive this technological revolution forward.

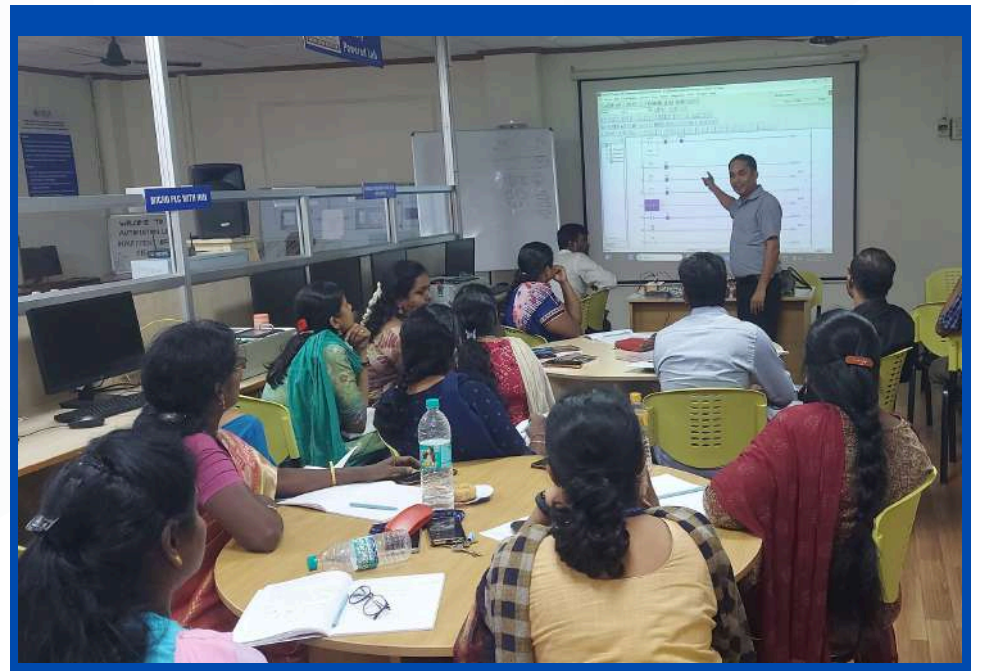
Good Luck with Best Wishes!!

5 day FDP on Industrial Automation and Robotics 15-19 JULY 2024

The department of EIE organized a 5 day FDP on Industrial Automation & Robotics between 15-19 July 2024. The FDP was formally inaugurated by **Mr.Gopinath/President-ISA SOIND** and **Mr.Himanshu Kumar/Director-Indwell Automation** on 15.7.24. The 5 day event covered interesting topics relevant to the 2 major domains, was coordinated by Dr. J. Sam Jeba Kumar, Asst prof/EIE and attended by faculty members from external institutions.



Glimpse of the inaugural event



During the FDP



External participants with the resource person from Mitsubishi Electric (India)

National Level Student Symposium NOMIZO 24 29-30 AUGUST 2024

NOMIZO'24, a highly anticipated national-level symposium, was inaugurated by **Mr. Babu Sai Ramesh, District VP-ISA**, on 29.8.24. The 2 day event was attended by students from various external colleges, who showcased their technical expertise, innovations, and hands-on learning in various fields of engineering. The symposium aimed to foster creativity and encourage collaboration among participants while engaging them in cutting-edge technologies, coordinated by Dr. S. Sharanya, AP/EIE.



Glimpses of the inaugural event



Participants during the ROBOT SOCCER and Certificate distribution

World ozone day outreach programme 16 SEPTEMBER 2024

The department of EIE in association with UHV cell jointly organized an outreach in connection with World Ozone day'24. The event was organized to create an awareness among school children about ozone layer protection. The event was attended by 200 children from grades 7 and 8 of SRM Public School. The chief guest was **Dr. B. Amudha, Scientist from IMD Chennai** who vividly shared her expertise with the children on ways of preserving the ozone layer. Poster presentations and drawing competitions were conducted and there were about 150 active student participations and certificates were awarded to all.



Dr. B. Amudha felicitated by School VP



Dr. B. Amudha addressing the students



Certificate distribution event



Automation and Robotics Challenge (ARC) for School students 19 - 20 SEPTEMBER 2024

The department of EIE organized the first edition of Automation and Robotics Challenge ARC'24 on 20.9.24 for school students from grades 8-12. The event was officially inaugurated by **Mr. Prabhakaran, CDM Smidth Automation Pvt. Ltd.**, and other Robotic enthusiasts at Faraday hall Main campus today. Prelims, prefinal and final rounds were conducted with an overwhelming participation from various schools in and around the nation. Prize winners were felicitated with prize money and certificates.



School students eagerly assembling the projects for demo



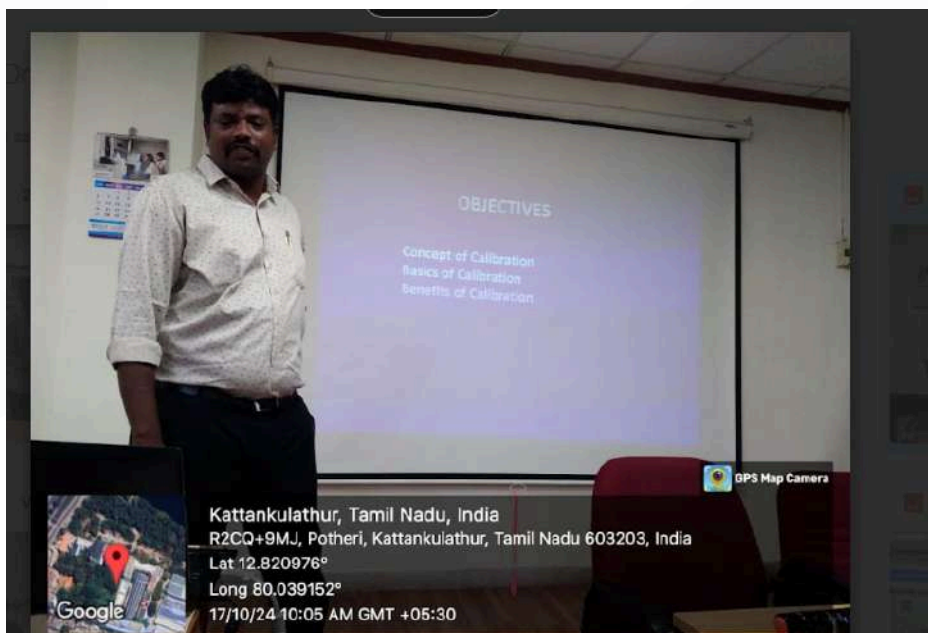
Dean/SoEE Inaugurating the event



During the distribution of awards and medals

1 day Workshop on Instrument Calibration practices 17 OCTOBER 2024

The department of EIE organized a 1-day workshop and hands on Training in Instrument Calibration practices for participants from external institutions. The event was conducted primarily to publicize the calibration facilities available at the department and to initiate collaborative proposals from other institutes. An Industry expert from pharma Industry, **Mr. G. Karthik Sr. Executive and Calibration Head, Fourrts India Pvt Ltd.**, gave a detailed session in the morning following which the demonstration of test bench was arranged.



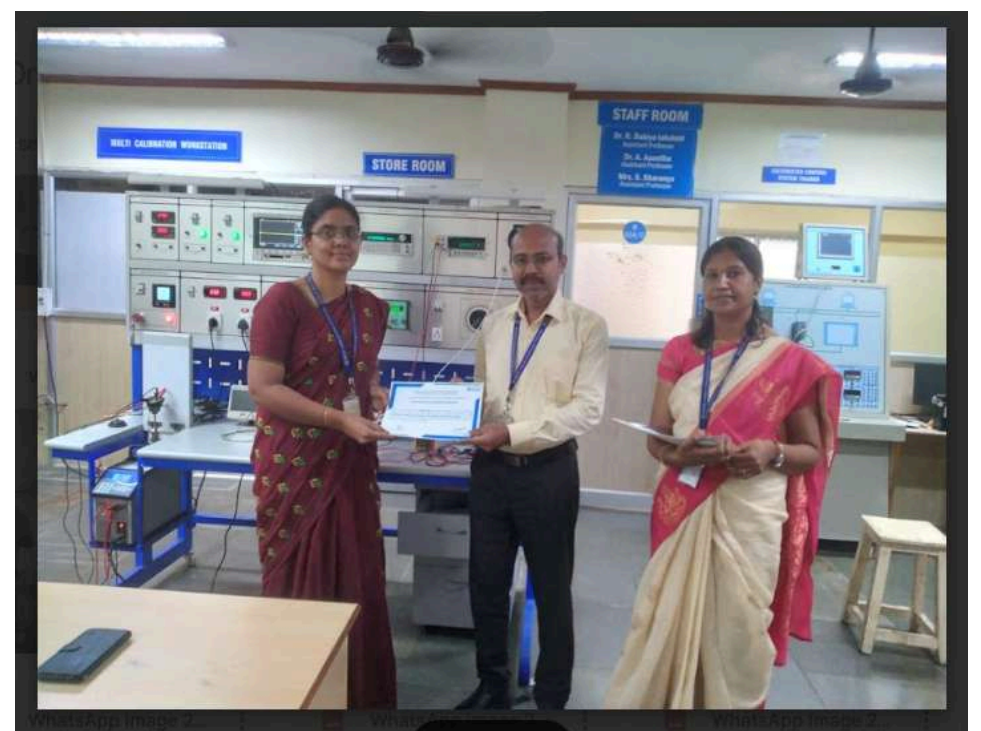
Mr. Karthik delivering the lecture



Attendees of the workshop



Demo of the test bench



Certificate distribution event

OPEN HOUSE PROJECT EXPO - TECHNOBLIZZ 2024 24-25 OCTOBER 2024

The department of EIE organized the tenth edition of TECHNOBLIZZ'24- an open house cum project expo for school students. 60+ project models were showcased in 2 venues- Faraday Hall and department labs, witnessed by 300+ school children from various schools around Chennai. Project Expo was officially inaugurated by **Dr. K. Vijaya Kumar/Dean-School of EEE** accompanied by Dr. G. Joselin Retna Kumar/ HoD-EIE on 24.10.2024. School children were excited to see the working prototypes and were inquisitive to know about its operation. Students of EIE were equally excited in explaining the school children about their innovative project ideas and created a technical atmosphere in the venues.



Dean/SoEE Inaugurating the event



Certificate distribution event



School Students eagerly listening to the demo



PDP on Embedded System Design for Complex Control Applications 20-22 NOVEMBER 2024

The department of EIE organized a 3 day PDP on Embedded system design for complex control applications using NI tools for participants from external institutions and scholars, PG and UG students of SRMIST, in association with VVDN technologies Pvt Ltd., between 20-22 November 2024. The event was formally inaugurated by **Mr. Neelkanth Reddy, Manager-WiFi & Networking/VVDN Technologies Pvt. Ltd.**, Day 1 session was handled by Dr.R.Bakiya Lakshmi to introduce the basics of LabVIEW Programming. Day 2 and Day 3 were focused on the demonstration of NI hardwares and ELVIS module by Mr. Rajesh from VVDN Technologies.



Mr. Neelkanth Reddy felicitated during the inaugural

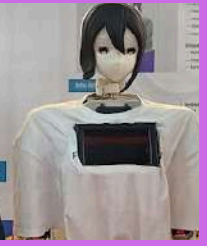


Participants during the PDP

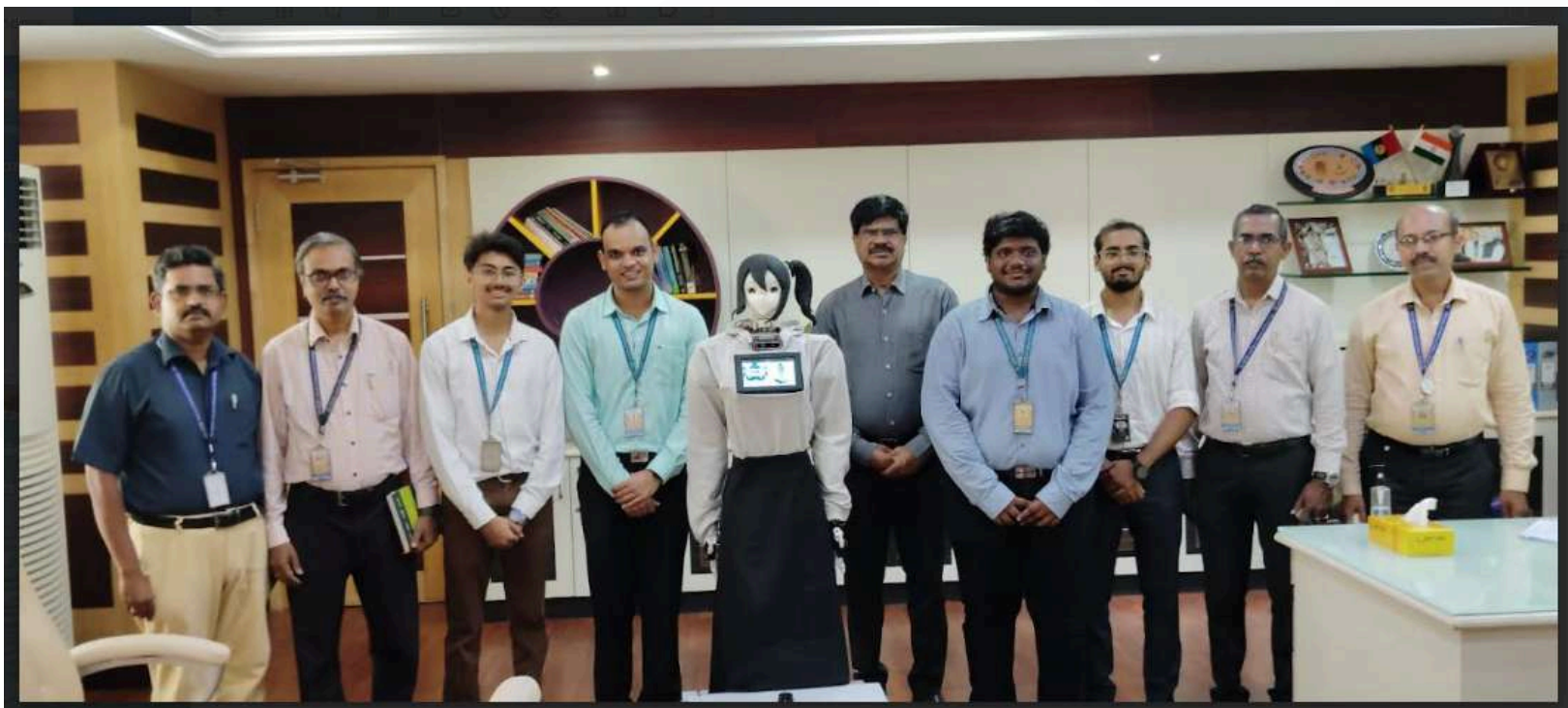


Certificate distribution

HUMANOID ROBOT - EVA



The department of EIE has been entrusted with the prestigious project of designing and developing a humanoid Robot. As desired by our Chancellor, the faculty and student team have designed, developed, and fabricated the humanoid robot named EVA -Enhanced Visitor Assistant, which is capable of serving as a Visitor Assistant, featuring interactive AI-based conversation with hand gestures, as well as object and face detection capabilities. The prototype has been tested and demonstrated with limited features, showcasing the potential of this project. The management has funded the project with a budget of **Rs. 10.7 lakhs**.



Faculty and Student team of EVA along with Vice- Chancellor and Dean/CET



EVA- Enhanced Visitor Assistant at IRIS'24 and in UB lobby

SRMSAT 2



The department of EIE has been entrusted with second prestigious project of launching the SRM Satellite 2. Faculty and Student teams work under different domains of the cubesat under the guidance of mentor **Mr. Loganathan/Retd Scientist from ISRO**. Series of lectures are organized every month and trainings scheduled during the visit of the mentor for his expert guidance.

The department feels proud of the its alumnus- Scientist **Dr. Rishitosh K. Sinha** (2009 batch ICE), from Physics Research Lab/ ISRO, for his excellent contribution in Space research, who received the Distinguished Alumni '23 award as well as the INSA Young Associate '24 award during the recently concluded INSA flagship event hosted by SRMIST on 9.12.24. Dr. Rishitosh visited the SRMSAT team and gave a motivational talk on basics of Remote Sensing. It was a wonderful journey down the memory lane and the audience were captivated truly with his speech.



SRMSAT team with its mentor and our prestigious Alumni

International Visitors



Prof. Jiun-Haw Lee, with his team from National Taiwan University, December 2024

Ms. Kimiko Tsuzuki, President, Tsuzuki Education Group, Japan
November 2024



Mr. Katsunori Takahashi, Tsuzuki Education Group, during the interaction



Rea Callender, Vice President Education Altium Corporation, USA
December 2024



SRMIST is one of the two selected institutions for the prestigious Altium Global Scholarship Program for Emerging Engineers. Out of 25 students, 6 of our department students got shortlisted for a scholarship package valued at USD 5,400

Guest Lectures delivered by EIE faculty

- **Dr. S. Sharanya** served as a resource person for FDP on “**Current trends in Information Technology**” at Sathyabama Institute of Science and Technology, from 22-26 July 24.
- **Dr. A. Vimala Juliet** delivered a technical talk on “**Powering Low Power Wireless Sensor in An Industrial Environment using Thermoelectric Generator**”, at the THIRD INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEM, (ICIS-2024), University of Transport Technology, Hanoi, Vietnam, on 24.10.24.
- **Dr. G. Y. Rajaa Vickram** delivered a Technical lecture in the 5 day **ATAL FDP: Revolutionizing energy**, organized by the department of EEE, SNS College of Engineering, Coimbatore, from 2-6 December 24.

Dr. S. Indirani mentored her student team and presented an AICTE approved research project, **A Smart Ration Distribution System** at the Grand Finale of Inventors Challenge held at Lloyd Institute of Engineering and Technology, Greater Noida, UP on 14.11.24



Dr. S. Indirani, AP/EIE with the student team and the conveners of Inventors Challenge'24

FDPs / Workshops attended

- Dr. A. Vimala Juliet Underwent 2 week PDP on Transforming Education : Integrating OBE and NEP 2020 from 22 July to 2 August, 2024 , organized by CVR College of Engineering
- Dr. R. Bakiya lakshmi and Dr. S. Sharanya attended the talk on product development organized by the DEI team on 21.8.24
- Dr. R. Bakiya lakshmi, Dr. A. Brindha, Dr. K.Vibha and Dr. S. Indirani attended a 5 day PDP cum Hands on training on LabVIEW tools, jointly organized by faculty coordinators from School of E&E between 2-6 September 2024
- Dr. G. Joselin Retna Kumar, Dr. R. Bakiya lakshmi, Dr. S. Sharanya and Dr. S. Indirani attended the workshop on Harnessing ChatGPT for academic excellence conducted on 30.10.2024
- Dr. A. Vimala Juliet and Dr. S. Sharanya, attended a 5 FDP one week short term course, AI for Healthcare and Instrumentation (AI for HI-2024)” from 13-17 November 2024, at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab.
- Dr. A. Brindha, Dr. K. Vibha and Dr. S. Indirani attended and successfully completed the 3 day FDP on Data Science for non computing department faculty from 14-16 October 2024
- Dr. A. Brindha, Dr. P. Jegan and Dr. S. Indirani attended and successfully completed the 5 day FDP on AI for non computing department faculty from 2-6 December 2024

Publications

- M. Jayasree, K. A. Sunitha, A. Brindha, Punna Rajasekhar, G. Aravamuthan, G. Joselin Retnakumar, A Deep Transfer Learning Approach for Addressing Yaw Pose Variation to Improve Face Recognition Performance, Intelligent Automation & Soft Computing, July 2024.
- G. Pius Agbulu, G. Joselin Retna Kumar, A LoRa- Based Internet of Things Smart Irrigation Control Solution with Hybrid Classifier CNN-SVM, Wireless Personal Communications, July 2024
- Velladurai, Shikha Singh, Gunjan Singh Bhakuni, A. Asuntha, Anil Kumar, Bhupendra Kumar, Tanmay Ghosh, “Bioengineered Silver Nanoparticles as Peptide Inhibitors Derived from *Crateva religiosa* G. Forst. Bark for Targeting Cancer Cells”, African Journal of Biological Sciences, July 2024.
- Prerna Sharma, L. Krishnaraj, A. Brindha, V.R.Prasath Kumar, “Thermal performance assessment of sandwich wall panel fabricated with polyurethane foam and natural husk”, Construction and Building Materials, August 2024.
- K. Vino Aishwarya & A. Asuntha, “A survey on comparative study of lung nodules applying machine learning and deep learning techniques”, Multimedia tools and application, August 2024.
- R.Bakiya Lakshmi, Bashir S M, Glad Stephen Daniel, “Design simulation and optimal control of two wheeled self balancing robot using LQR PID” Tuijin Jishu/Journal of Propulsion Technology, August 2024.
- Sanchanna Ganesan, C. Likith Kumar & Vimala Juliet A, “Investigation of fluid–structure interaction of micropillars in a three-dimensional microfluidic DLD array”, Journal of the Brazilian Society of Mechanical Sciences and Engineering, August 2024.

Publications

- Sanchanna Ganesan, Vimala Juliet A, C. Likith Kumar, “Dielectric Modeling of Staphylococcus Aureus Bacteria and Shape Optimization of Electrodes for Isolation in Microfluidic Channel: A Numerical Study”, Engineering, technology & Applied Science research, August 2024.
- G. Pius Agbulu, G. Joselin Retna Kumar & S. Gunasekar, “IESDCC-KM: an improved energy-saving distributed cluster–chain K-communication scheme for smart sensor networks”, International Journal of System Assurance Engineering and Management, August 2024.
- S. Sathish Kumar, S. Valanarasu, A. Vimala Juliet, R.S. Rimal Isaac, V. Ganesh, “Effect of coating temperature on the properties of CdS thin films coated by nebulizer spray pyrolysis method for photodetection applications”, Journal of Photochemistry and Photobiology A: Chemistry, August 2024.
- A.Vimala Juliet et.al., “Effect of coating temperature on the properties of CdS thin films coated by nebulizer spray pyrolysis method for photodetection applications” Journal of Photochemistry and Photobiology A: Chemistry, September 2024
- K. Vibha, Lyris, Nickhil M S, Wilson H, “Self Defense Smart Device”, Journal of Electrical Systems, November 2024.
- A. Vimala Juliet, Dr.C.Likith Kumar, “An Overview of Microfluidic Phenotype Separation of Bacteria”, Current Pharmaceutical Design, November 2024
- A. Vimala Juliet, “Boosting the opto electronic properties of V2O5 thin films by Fe³⁺ doping for photodetector applications”, Optical Materials, November 2024

International Conference Publication

- A. Vimala Juliet, G. Joselin Retna Kumar et.al., “Design and Analysis of Weather Parameters Using MEMS Technology with Suitable Characteristics for Integration into a Single Chip for Environment Monitoring” IEEE 3rd International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN, September 2024.
- A. Vimala Juliet, “Design and Implementation of Solar-Powered Bi-Directional Wireless Charging System for Electric Bicycle”, IEEE Madras Section Technically Co-sponsored 4th International Conference on Power, Energy, Control and Transmission Systems, ICPECTS 2024, 8-9 October 2024.

Ongoing Funded Projects

Project Title: Vision-based sensor system for quantifying Parkinson's disease motor complexity using MDS-UPDRS score

Name of the PI: Dr.A.Brindha, AP/EIE

Agency: SEED grant under Selective Excellence Research initiative

Amount: Rs 2,10,000

Duration: 2023-26

Project Title: Development of wearable IoT electronic device for at-home assessment and monitoring of Parkinson's disease

Name of the PI: Dr.A.Brindha, AP/EIE

Agency: SERB

Amount: Rs. 20,84,273

Duration: 2023-26

Patents Granted and Published

- SURENDRAN, **G. Joselin Retna Kumar**, “A heat exchanger”, Application No.202441052544A, Published: July 2024
- **A. Vimala Juliet** “ A device for repositioning fractured Zygomatic bones of a subject”, Application No.: 202341048681A, Published : July 2024
- **G. Joselin Retna Kumar**, Vijay Arockia Joseph, “A system and method for an Internet of things (IoT) based health monitoring”, Indian Patent No: 548895, **Granted : August 2024**
- **A. Vimala Juliet**, ARTIFICIAL INTELLIGENCE BASED STRESS DETECTION DEVICE, Indian Patent No.: 213818, **Granted : October 2024**
- **G. Y. Rajaa Vikhram**, “System and method for decentralized wide-area damping For low frequency oscillations in a large-scale power system”, Application No: 202441066330, Published: November 2024

Online Courses Completed



Dr. R.Bakiya lakshmi successfully completed the 12 week NPTEL course on “Solid Waste Management techniques”, Jul-Nov 2024



Dr. S.Sharanya successfully completed the 12 week NPTEL course on “Statistics for Biomedical Engineers”, Jul-Nov 2024



Dr. S.Indirani successfully completed the 12 week NPTEL course on “Fabrication techniques of MEMS sensors from Clinical perspective”, Jul-Nov 2024

FACULTY AWARDS

1. **Dr. A. Vimala Juliet**, serves as Fellows Admissions Committee member of International Society of Automation for the year 2024-25 and an Executive member of ISA-SOIND section.
2. **Dr. A. Vimala Juliet** currently serves as a GOVERNING COUNCIL MEMBER 2023-2026 in Instrument Society of India (ISOI)
3. **Dr. A. Vimala Juliet** currently serves as TC17 technical committee member of IMEKO International Measurement Confederation

Successful Completion of UHV FDP

UHV II FDP for Deans, Directors, HoD's & Professors 1-5 October 2024



Dr. G. Joselin Retna Kumar



Dr. A. Vimala Juliet

Rejoicing moments



Faculty receiving PhD award during 20th Convocation, October 2024
From Left: **Dr. Sharanya**, **Dr. Gunasekar**, **Dr. Stella jeniffer** and **Dr. Menaka**

Research and Innovations

SRMIST Directorate of Research and the Directorate of Entrepreneurship and Innovation (DEI) jointly organized a mega conclave -The Industrial Research and Innovation Summit IRIS'24, on 23.11.24, inviting the industry leaders to experience the transformative research & innovation ecosystem to unleash the potential of collaboration cum co-creation. Team EIE participated enthusiastically to showcase about 15 market ready products in 5 different categories.



Faculty and the Student teams at IRIS'24



Glimpses of the event IRIS'24

Faculty startups

ECOWIN Instruments Pvt.Ltd.,
Incorporated in April 2024
Director - R. Bakiya lakshmi

JRS Instruments LLP.,
Incorporated in June 2024
Directors - G. Joselin Retna
Kumar & S. Sahabudeen

GIATROSMED LLP.,
Incorporated in June 2024
Director - S. Sharanya

Products ready for commercialization



Smart BOD
Incubator
Patent
Application No:
201841025939



A Toxic free
sanitary napkin
disposer Patent
Application No:
202341027121



CAN D-Check
Patent
Application No:
202141029052



A Flexi-Filler for
Dental
Application
Patent Application
No: 202241052029

SRM Institute of Science and Technology
kattankulathur

REGULATED / FIXED POWER SUPPLY
EIE - 2024

A photograph of a Regulated / Fixed Power Supply, a laboratory device used for providing a constant voltage and current. It is a grey, rectangular device with a handle and various output terminals.

SPECIFICATIONS:

H x W x L : 20 cm x 17 cm x 30 cm	Input Voltage : 230 V AC / 50 Hz
Weight : ~ 3 Kg	Fuse Protection : Available in AC Input. 3 Amp Fast Blow type
Colour : As per request	Output Range : • Variable 0 - 30 Volt / 2 Amp 2 Channels
Paint : Powder coated	• Fixed +12 V, -12 V, 5 V / 2 Amp
Body : Metal	

Designed
Developed &
successfully tested
Indigenous product

Student awards and achievements

- TEAM ROBOCON secured an impressive 9th rank at the National Robocon Competition organized by IIT Delhi, August 2024
- TEAM ROBOCON was honored with the prestigious Autodesk Fusion Fabricator Award, which comes with a cash prize of Rs. 25,000.



- Samuel Dalyn N, II year Automation and Robotics Won 1st prize and 1500 rupees cash award in Hardwired Ideathon, INVENTED'24 organized by the Computer Science Department of Shiv Nadar University, Chennai on 28.9.2024



Samuel Dalyn, II year AR, receiving the award

Student awards and achievements

- Samuel Dalyn N, II year Automation and Robotics, Won 3rd prize and Rs. 7000 cash award in **Roboleague**, AARUSHi 24, organized by SRM Institute of Science and Technology on 29.9.2024
- Srija P, Allen Sanjai M, Hisham B, II year EIE participated in The Global Product Development **Ideathon 24-2.0**, hosted by the EEE Department at SRMIST and won a Cash prize of Rs. 4000 on 24.9.2024.
- Lakshmi Priya and Ramani priya, III year EIE participated in a **symposium** organized by SIMATS Engineering College, Chennai on 12.9.24 and presented their research work
- Varsha RS, III year A&R, participated in a **symposium**, organized by SIMATS Engineering College, Chennai on 12.9.24 and presented her research work.
- Mohammed Irfas M, Sparsh Rathore, Sree Pranav, Rohan Bandari, Boyina Hasan, III year A&R, participated in **Robo Soccer TECHNOVIT @ VIT Chennai** on 20.9.24.
- Pooja Sri, Sree Pranav, Rohan Bandari, Boyina Hasan, III year A&R, participated in **Robo Race TECHNOVIT @ VIT Chennai** on 20.9.24.
- Mohammed Irfas M, Boyina Hasan and Abdul Rakheen, III year A&R, participated in **SMART AGRO STORAGE HACKATHON** by Mechanical Department, SRM IST on 17.9.24.
- Santhosh and Suruthika, III year EIE, presented a paper in the **National level Technical Symposium** and won second prize, ADHI college of Engineering on 20.9.24.

Student awards and achievements

- Aadhya Surabhi S and Harini S, III year EIE, participated in **SMART AGRO STORAGE HACKATHON**, organized by Mechanical Department, SRMIST, on 17.9.2024.
- Aditya Mishra, III year EIE, participated in **UNOVATE Hackathon 2024**, SRMIST from 31.08.24 to 01.09.24 and won third place with cash prize Rs 4,000.
- Vigneshwaran, Jyoti Sastidharan and Karthika, III year EIE, were awarded with merit certificates for securing first place in paper presentation category organized by **IEEE section** of Jeppiar Engineering College on 6.11.24.
- Aditya Mishra, III year EIE, along with a multidisciplinary team, participated in **ASME student design competition**, won second place and a cash price of \$300, at St. Joseph's College, Kerala on 28.09.24.



Aditya Mishra, III year EIE with the trophy and cash award

- A 25 member team, from II and III year EIE and AR programs participated in **Robo-Hockey World cup** held during 24-27 August 2024 jointly organized by Technoxian and AICRA, in New Delhi.

Industrial visits



III year Students at Severn Glocon Pvt Ltd., Chennai

III year B.tech EIE students visited Severn Glocon Pvt. Ltd., a Control Valve manufacturing plant located near Sriperumpudur on 6.9.24.

Students from III year B.tech EIE and AR branches visited Aavin Milk factory located at Kaakalur, near Thiruvallur on 12.9.24.



III year Students at Aavin Milk factory, Chennai

Convocation 2024

It was a day of shining stars and raining clouds at SRMIST when all our enthusiastic graduands -Under and Post graduates from EIE and AR programs (Batch 2024) proudly collected their degree certificates during the grand 20th convocation held on 13.10.24. Team EIE heartily wishes them all good luck and best in their future endeavors. Great going and keep in touch with us!!!



UG and PG Batch 2024 during the convocation

Students Placed in Core and IT sectors

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

SIEMENS
Ingenuity for life

BATCH 2025 **CTC 4.50 LPA**

Congratulations!

DEVAKI V
RA2111017010002

DOSHIBA A
RA2111017010020

THRISHA
RA2111017010021

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

AC Smith
Innovation has a name.

BATCH 2025 **CTC 5.50 LPA**

Congratulations!

ASHWIN G
RA2111017010035
GET(COUSTOMER SERVICE)

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

UNO MINDA
DRIVING THE NEW

BATCH 2025

Congratulations!

SELVAMANI P
RA2111017010011
CTC-5.5 LPA
ROLE:GET

GOTHAVARI V
RA2111017010003
CTC-5.5 LPA
ROLE:GET

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

Infosys

BATCH 2025

Congratulations!

DIWAKAR S
RA2111017010026
CTC - 3.6 LPA
ROLE:SYSTEM ENGINEER

MUKESH R
RA2111017010037
CTC - 3.6 LPA
ROLE:SYSTEM ENGINEER

SUBA SELVAMANIKANDAN S
RA2111017010029
CTC - 3.6 LPA
ROLE:SYSTEM ENGINEER

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

L&T TECHNOLOGY SERVICES

BATCH 2025

Congratulations!

SRIVINAYAK N
RA2111017010041
CTC - 4 LPA
ROLE: IT SERVICE OFFER

SWATHI A
RA2111017010045
CTC - 4 LPA
ROLE: IT SERVICE OFFER

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

TCS
TATA CONSULTANCY SERVICES

BATCH 2025

Congratulations!

HARI PRASATH M
RA2111017010007
CTC - 3.3 LPA
ROLE: TCS NINJA

DOSHIBA A
RA2111017010020
CTC - 3.3 LPA
ROLE: TCS NINJA

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SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

ADITYA BIRLA GROUP

BATCH 2025

Congratulations!

AJITHA U
RA2111017010036
CTC - 7.5 LPA
ROLE: GET

DHARSHINI R
RA2111017010038
CTC - 7.5 LPA
ROLE: GET

SUBA SELVAMANIKANDAN S
RA2111017010029
CTC - 7.5 LPA
ROLE: GET

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

ZF GROUP

M.Tech Batch 2025

Congratulations!

BRIJESH M S
RA2312053010004
JOB PROFILE: PGET
CTC- 9.25 LPA
STIPEND-35,000 PM

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

SRM COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

KEYENCE

M.Tech Batch 2025

Congratulations!

TOM SONY
RA2312053010005
JOB PROFILE:
CONSULTING SALES ENGINEER
CTC- 7.1 LPA

SRMIST_EIE_KTR EIE-SRM-KTR EIE HIGHLIGHTS SRM EIE

Wish you all a successful career ahead !!

BIOPRINTING- THE ART OF 3D BIO FABRICATION

-By Varsha R.S. III Year A&R

Bioprinting is the recent research and development topic in the biotechnical domain that involves fabrication and duplication of human tissues. Human living tissues along with the biomaterials mimic a layer of human tissue which is currently used in supporting the organ transplantation technique. Creation of skin layer, cartilages or even bones is more feasible this technique of fabrication. Motion control systems and fine print heads are used for high-precision actions. The control loop with a haptic feedback ensures the continuity of the process.



Instrumentation deals with the structural fidelity and functionality of such research domains especially in the medical domain. The inclusion of instruments used for CTs or MRIs can also contribute to building a patient-personalized design for convenience. Bioprinters are now used in drug testing to test the toxicity of a particular prescription. Instrumentation control loops also ensure the temperature required and other viable conditions of the sensors and other devices used. 3D models made with bioprinters are a major contribution to studying cancer behavior in patients. The aim of the research made in the domain will possibly include Bioprinting for organ development instead of finding a donor. The developments will result in ensuring the homogeneity of the tissues of the organ and reduce the risk of organ mismatches.

AUTOMATION CLUB

Location - 518, 5th floor, Hi Tech Block

Membership No. - SRMKTR/SCL/202304

Faculty Incharge - **Dr. G. Joselin Retna Kumar**

Student Team Leaders -

Trisha (III year AR) **Sanjay ram** (III year EIE)

No. of Students enrolled - 40

Official Training activities organized - 2

- FDP on industrial automation in July 2024
- Automation and Robotics Challenge (ARC) for students in the month of September 2024



Students involved in learning and practice

ARDUINO CLUB

Location - 513 5th floor, Hi Tech Block

Membership No. - SRMKTR/SCL/202303

Faculty Incharge - **Dr. A. Asuntha**

Student Team Leaders -

Samuel Dalyn (II year AR) **Sukin Jose** (III year AR)

No. of Students enrolled - 40

Official Training activities organized - 2

- Techexplore in the month of July 2024
- Training for school students during Nomizo'24 in the month of August 2024



Students involved in active learning during Techexplore

LabVIEW CLUB

Location - 513, 5th floor, Hi Tech Block

Membership No. - SRMKTR/SCL/202305

Faculty Incharge - **Dr. R. Bakiya lakshmi**

Student Coordinators -

Varsha Selvarajan (III year AR) **Sana** (I year AR)

No. of Students enrolled - 30

Official Training activities organized - 2

- PDP in the month of November 2024
- Value added course on labVIEW

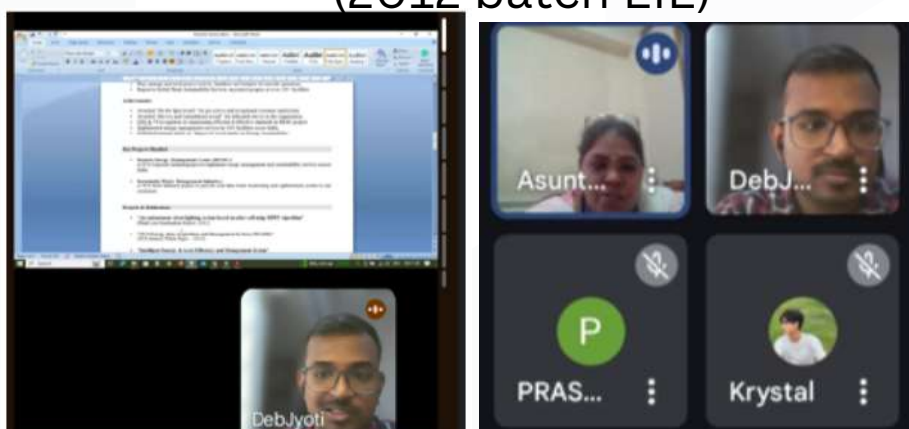


During the PDP training session

ALUMNI INTERACTION

Mr. Deb Jyoti, Senior Manager - Product/ Marsh McLennan, Mumbai
(2012 batch EIE)

October
2024



Technology
developments

Mr.C.Anand/Tech Support -Husky Tech
(2015 batch EIE)

Mr. T. R. Vikram/ Data Analyst - TCS
(2022 Batch EIE)



August
2024



Mr. Ravi Shankar/ Lead Project Execution, Emerson India Limited
(2012 Batch)

December
2024



Mock
Interviews

ALUMNI REUNION'24



Alumni releasing the sixth edition of the department newsletter on 21st December 2024

Image Gallery



The best thing about,
Memories
... is making them

