



25 YEARS

**SRI MANAKULA VINAYAGAR**  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)

# NEWSLETTER

Volume 14 – Issue 3 – 12 March , 2024

DEC 2023 – FEB 2024

Department of  
**Electronics and Communication Engineering**



**SRI MANAKULA VINAYAGAR**  
**ENGINEERING COLLEGE**  
An Autonomous Institution

Sri Manakula Vinayagar Engineering College (SMVEC) established in the year 1999. SMVEC is an autonomous institution affiliated to Pondicherry University. It offers 14 undergraduate, 8 postgraduate, and 11 research programs in Engineering, Architecture, Management Studies and Computer Applications. SMVEC has been accredited by NAAC with "A" grade and NBA. The institution is also accredited by TATA consultancy services. The college has a good placement record with students getting job offers from top MNC companies in India and abroad. SMVEC students have won many awards and accolades for their academic achievements.

## Vision

To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society



## Mission

**M1: Quality Education :** To provide a comprehensive academic system that amalgamates the cutting edge technologies with best practices.

**M2: Research and Innovation :** To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.

**M3: Employability and Entrepreneurship :** To inculcate the employability and entrepreneurial skills through value and skill based training.

**M4: Ethical Values :** To instill a deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

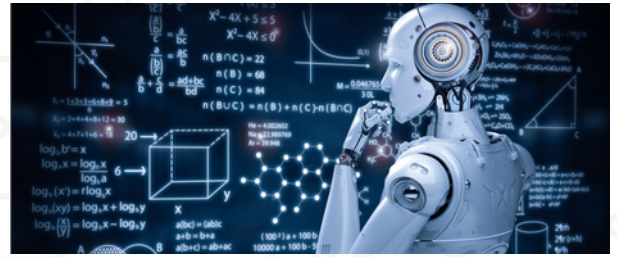
## INSIDE

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering is a top-notch department that offers high-quality UG, PG and Ph.D. programs. The UG program B.Tech - Electronics and Communication Engineering is accredited by the National Accreditation Board, AICTE-New Delhi, and has a placement record of over 89%. The department's graduates are highly sought-after by employers in the Electronics and Communication sector.

Our department contributes significantly to achieve the national objective of envisioning the world with a clear and deep commitment and a sincere desire to meet the expectations of a rising, fast-developing technology.



### PROGRAMMES OFFERED

- B.Tech - Electronics and Communication Engineering
- M.Tech - Electronics and Communication Engineering
- M.Tech - VLSI & Embedded Systems
- Ph.D - Electronics and Communication Engineering

### Vision



Facilitate academic excellence and research among Electronics and Communication Engineers to meet the global needs with high competence and ethical professionalism.

### Mission



**M1: Academic Excellence:** To impart learning skills to meet the global challenges in the field of Electronics and Communication Engineering.

**M2: Research and Innovation:** To provide excellence in research and innovation through multidisciplinary specialization.

**M3: Employability and Entrepreneurship:** To enhance inter and intra personal skills among students to make them employable and entrepreneurs.

**M4: Ethics:** To inculcate the significance of human values and professional skills to serve the society.

## 7th BoS Meeting

29-02-2024 | 10.30 am | Seminar Hall



Dr. P. Raja, Chairperson, opened the **7th meeting of BoS** with warm welcome and thanked all the Members for accepting the seventh BoS meeting Invitation for the UG, PG and Research programmes. The Chairperson proceeded the meeting subsequently and discussed the agenda items.





## KNOWLEDGE SHARING SESSION



ORGANIZED BY FSG - WIRELESS COMMUNICATION GROUPS

Online lecture was conducted for First Year students on topic **"A Recent Advancement and Development in Web Technologies"** on Feb-14, 2024 with the resource person Dr.S.Shanmugam, Assistant Professor/CSE, SRM Institute of Science and Technology. The lecture provides in-depth understanding of cutting-edge tools, frameworks, and methodologies that are driving the future of web development, along with their practical applications in solving real-world challenges and also inspires to harness these technologies in creating more efficient, secure, and user-friendly web solutions.

A guest lecture conducted for the Third Year students on the topic **"Role of MATLAB and Simulink in new and Emerging Technologies"** on Feb-24, 2024 with the resource person Dr. Vivek Ashokan, Regional Manager ARK (MATHWORKS). The lecture focused on the latest features and capabilities of MATLAB and Simulink, demonstrating their critical contributions to artificial intelligence, machine learning, autonomous systems, and IoT solutions across various industries, including aerospace, automotive, electronics, and more.



## FACULTY DEVELOPMENT ACTIVITIES

- **V.Logisvary, S.Jayanthi, Dr. R. Kurinjimalar** attended a SERB Sponsored 2-day National seminar on "Advancements in Instrumentation Engineering through Artificial Intelligence Challenges and Opportunities", Sri Manakula Vinayagar Engineering College, from 24.01.2024 to 25.01.2024.
- **S.Jayanthi** attended a 6-day National level faculty development programme on "Recent Trends in Nanodevices, Materials and Its Applications, Department of Nano-Technology, SIMATS Engineering, Chennai, from 26.02.2024 to 02.03.2024.
- **S.Yuvaraj** and **B.Menaga** participated in One Week workshop on "Insights to the Art of Analog Design", Organized by IIT, Guwahati from 12.02.2024 to 16.02.2024, associated with Ministry of Electronics and Information Technology.
- **Dr.S.Dhivya** participated as a Mentee in Online IEEE Professional Mentoring Program for Young Faculty Members organized by IEEE India Council Industry Academia Young Professionals sub-committee from 01.10.2023 to 31.12.2023.
- **Dr.S.Dhivya** participated in one week Faculty Development Program on Digital Manufacturing Technology at Sri Manakula Vinayagar Engineering College, Puducherry from 11.12.2023 to 16.12.2023.

## RECOGNITION

### Dr. J. Pradeep



- Technical Reviewer in International Conference on Emerging Trends in Information Technology and Engineering.
- Reviewer in IEEE International Conference on Computing, Power Communication Technologies.
- Technical Program Committee member and Reviewer in International Conference on Advances in Computational Intelligence and Communication.

### Dr. N. Saranya



- Contributed as Reviewer in Engineering Review
- Reviewer in Journal of Electronic Materials

### Mr. R. Kalaiyarasan



- Contributed as Reviewer in International Conference on Social and Sustainable Innovations in Technology and Engineering.

### Dr. S. Dhivya



- Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
- Control and Cybernetics
- Reviewer in InSc International Publishing Platforms and also for Technical Events under the stream: Electronics and Communication Engineering

## RESEARCH ACTIVITIES

### Proposal for National Level Seminar

**Dr.P.Raja** and **Dr.N.Saranya** has the submitted proposal two days National Seminar on “Advancement in Antenna Technology and Biological Effects of Electromagnetic Radiations” to Science and Engineering Research Board and granted the proposal on Feb -12, 2024



### Consultancy Work

- **Dr.N.Saranya** completed the Consultancy on Testing of 2.45 GHz Antenna parameter testing , with an amount of Rs.1000
- **Dr.N.Saranya** did the Consultancy work on Testing of 2.45 GHz Antenna Design and fabrication and testing , with an amount of Rs.3500/-

### Patents

- **R.Kalaiyaran** received FER response for the patent title of “A Sierpinski Carpet Fractal Antenna ” with U-slot structure of Wireless Applications.
- **P.Suseendhar** granted design patent for “Food Waste Segregation device”.
- **K.Jambulingam** granted design patent for “Water Flow Indicator”.

### Publications

- **Balaji M, Ashok Kumar, Shanmugaraj**, “Analysis of Charge Plasma Based Hetero Junction Nanowire Multi Channel Field Effect Transistor For Sub 10 Nm” Journal of Nano- Electronic Physics” Vol 15, No. 04, PP. 04032-5, 2023, ISSN: 2077-6772.
- **N. Saranya, S. B. Lenin, S. Mohanram**, “A novel semi-Circular slotted microstrip antenna for ambient RF Energy harvesting of 2G/3G/4G spectrum bands” International Journal of microwave and optical Technology” Vol.18, No.6, PP.583-592, 2023.
- **P. Naveen Chander, P. Raja, S. Ashok Kumar, S. Gayathri**, “Investigation of Charge Plasma based Nanowire Field Effect Transistor for Sub 5 nm”, IETE Journal of Research, Vol. 69, No.11. 2023 ISSN: 0974-780X, SCI.
- **B Shankarlal , S. Dhivya, K. Rajesh, S. Ashok**, “A Hybrid Thyroid Tumor Type Classification System using Feature Fusion Multilayer Perceptron and Bonobo Optimization” in Journal of Xray and Technology”, (Accepted - Press), pp. 1-25, 2024
- **S. Jayanthi, P. Raja, M. Elangovan b, T.S. Murugesh**, “Single ended 12T cntfet sram cell with high stability for low power smart device applications”, e-Prime - Advances in Electrical Engineering, Electronics and Energy, vol. 7, pp 1-24, 2024

### Research / IPR based Seminars



Enthralled lecturer by Dr. Jothi Periyasamy with his thoughts on “**Realizing the Potential of Generative AI in Industrial Applications.**” This occasion was a critical turning point in the investigation of innovative technologies that have the potential to completely transform a number of industries.



**Dr. P. Jaya Kumar**, a renowned consultant in patent filing and Intellectual Property Rights (IPR) from JS ARA Tech, led an enlightening session on IPR awareness on February 24, 2023. This seminar was designed to equip aspiring inventors, researchers, and entrepreneurs with the knowledge and tools necessary to safeguard their innovations in today’s competitive landscape.

## STUDENTS CORNER

- **Subash.P, Vishal.P, Namachivayam.D, Barath Kumar.R, Jawahar.G, Vignesh.S, Tharunraj.S & Sanjay.A** has participated in National Level Symposium conducted at “Saveetha Institute of Medical And Technical Sciences”, Chennai on 16.02.2024.
- **Shagir Parvin.J, Madhumitha.S & Valandinathy.G** has participated in Paper Presentation event at PA College of Engineering, Coimbatore on 27.02.2024.
- **Srinidhi.V, Vishnu Priya.V & Viveka.C** has participated in a two days technical symposium at Aavishkar 2k24 Paper Presentation event on 28.02.2024 Organized by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and technology.
- **Dhivakar.G & Paarthasarathy.K** has attended internship at “EATON Powering Business Worldwide”, from 29.01.2024 – 5.02.2024.
- **Marshal Regan Raj, Mohamed Yachin.C, Sooriya.I** has attended internship at “Manatec electronics PVT.LTD”, from 01.02.2024 – 06.02.2024.
- **Harish Kumar.T** has attended internship at “Codsoft”, online from 20.11.2023 – 20.12.2023.
- **Hemalatha.V, Nivetha.P, Preethika.M, Ramya Devi.M & Suvetha.K** has attended internship at “Doorhdarshan kendra”, from 30.01.2024 to 03.01.2024.
- **Divyalakshmi.K** has participated in a two days technical symposium at Aavishkar 2k24 Paper Presentation event on 28.02.2024.
- **Yagadeepan.S** has won 1st prize in Technical Quiz organized by Vel Tech University on 28.02.2024
- **Kugan.T, Sreeman.D & Gogulan.V** won 3rd prize in Paper Presentation organized by Vel Tech on 28.02.2024
- **Oviya.P** has attendend the implant training from 30.01.2024 to 03.02.2024 at Doordarshan kendra,Puducherry.



Students actively participated on “Amusant – Let’s burn the Stress” on 14.01.2024 at Puducherry Beach



Students participated in State Level Quiz Competition for National Voter’s day held on 20.01.2024 at Vivekananda Hr.Sec.School, Lawspet by Election Department, Puducherry



National voters day celebration held at Kamban Kalai Arangam on 25.01.2024

G. Chandru has won 2nd prize with cash award of ₹ 15000 in Pragyam '24 – Ingenium Hardware Hackathon Event at NIT, Trichy on 24.02.2024



Pragyam '24 – Ingenium Hardware Hackathon





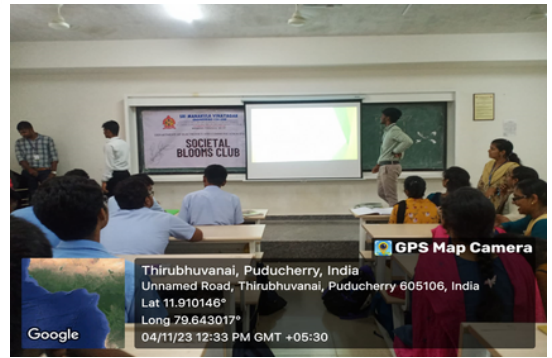
## CLUB ACTIVITIES

### Societal Blooms Club

The Societal Bloom's Club conducted an event on December 1st 2023. The Societal Club sparked innovation and environmental consciousness among the first-year students of B section through a unique blend of Cross Trick Games and a workshop on e-waste management. This initiative not only challenged their creativity but also heightened their awareness about sustainability.

It was a day of learning, inspiration, and forward-thinking, marking a significant step towards nurturing responsible global citizens.

The Societal Bloom's Club conducted an event on December 2nd, 2023. the first-year students of Section C were immersed in a day dedicated to fostering social consciousness through a series of activities. The event featured enlightening speeches on social awareness, compelling chart presentations, and an assortment of non-technical events designed to broaden perspectives and encourage thoughtful discussion. This multifaceted approach provided a vibrant platform for students to explore and express their views on important societal issues, marking a memorable day of learning and interaction.



### Robotics and Automation Club



The Robotics and Automation Club hosted an enlightening event on 24.02.2024, titled "Modern Designing of BOT." This event was meticulously designed to kindle the innovative spirits of students, providing them with a comprehensive introduction to the world of robotics and encouraging them to venture into robot development. This event served as a beacon for aspiring roboticists, motivating them to explore the endless possibilities within the field of robotics.



### PROFESSIONAL BODIES ACTIVITIES



### Institution of Engineers (India)



Shagir Parvin. J Third year A section delivered the "Foundational concepts of engineering and initiated the Techbuzz activity" on 24.02.2024 the first year students

Various quizzes planned for the day, which was designed to stimulate curiosity and exploration beyond conventional academic boundaries.



**PROFESSIONAL BODIES ACTIVITIES**

**IETE Student Forum**

**Technical Quiz and Aptitude Competition**

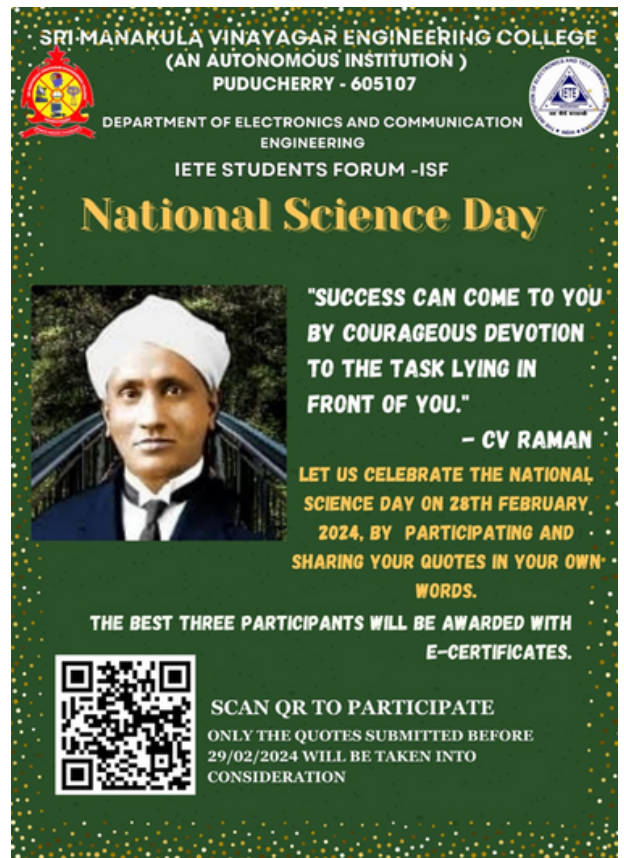


IETE Student Forum has organized TECHBIZ 2K24 Technical Quiz and Aptitude Competition on 27.02.2024. The TECHBIZ Technical Quiz and Aptitude Competition was a thrilling showcase of intellect and skill, with a total of 85 active participants from the second and third years. The competition kicked off with a rigorous first round, where all participants tackled 25 challenging questions spanning Electronics, Communication, Electronics Engineering, Current Affairs, General Knowledge, and Aptitude. Following this initial test, the top 25 performers advanced to the second round, facing another set of 25 questions within a tight 30-minute timeframe.



**National Science Day Celebration Quotes Competition**

National Science Day is celebrated in India on February 28 each year to mark the discovery of the Raman effect by Indian physicist Sir **C. V. Raman** on 28 February 1928. On this special occasion, the IETE Student Forum (ISF) joyfully celebrate this occasion to honor the brilliance of the Bharat Ratna and Nobel laureate, C.V. Raman, at Sri Manakula Vinayagar Engineering College. To honor the legend, a creative science related quotes competition was organized through online. Both second years and third years participated in the competition and written their own quotes.



## EXTENSIONAL ACTIVITIES (NSS)



Volunteering for Coastal cleanup by the Cluny foundation on 28.01.2024 at Muthialpet, Puducherry



Ceremonial March Past for Republic Day held at our college premises on 26th Jan 24



Paying respect for the Martyr's day occasion on 30.01.2024



Heart warming event on International mother language day, 21.02.2024 at our Lecture hall

## ACADEMIC COLLABORATION



We had a Memorandum of Understanding with DeepSphere.AI on 13.12.2023. It is a cloud-ready, on-demand subscription platform for every enterprise to quickly adapt and advance AI through a progressive AI computing lab, advanced AI education, prebuilt industrial AI POC, and AI data engineering. DeepSphere.AI platform brings together business processes, AI, IIoT, and big data, built-on open source technologies.



The signing of this Memorandum of Understanding marks the beginning of a fruitful partnership between Sri Manakula Vinayagar Engineering College and DeepSphere. Together, we look forward to leveraging our collective strengths to drive innovation, empower the next generation of leaders, and make significant contributions.

Through collaboration with DeepSphere, Sri Manakula Vinayagar Engineering College gains access to cutting-edge research projects and state-of-the-art facilities, fostering innovation and pushing the boundaries of knowledge. DeepSphere's industry insights and expertise provide students with valuable exposure to real-world challenges and opportunities. This collaboration facilitates internships, workshops, and training programs that prepare students for successful careers.

**ACADEMIC TOPPERS**

The End Semester Examinations results for Jan / Feb 2024 were published on February 29, 2024. We congratulate to our Academic Toppers.

**Semester / Section Wise**

**SGPA 9.14**  
**GOWSHIHA. V**  
Year/Sem/Sec: I/I/ A



**SGPA 9.14**  
**PREETHA. D**  
Year/Sem/Sec: I/ I/A



**SGPA 9**  
**MOHAMED SADIQ. M**  
Year/Sem/Sec: I/I/A



**SGPA 8.86**  
**AARTHI. A**  
Year/Sem/Sec: I/ I/A



**SGPA 8.86**  
**KARTHIGA. G**  
Year/Sem/Sec: I/I/A



**SGPA 9.14**  
**SANDHYA. I**  
Year/Sem/Sec: I/I/A



**SGPA 8.91**  
**BHUVANESHWARI.K**  
Year/Sem/Sec: I/I/ B



**SGPA 8.86**  
**MUKESH.P.B**  
Year/Sem/Sec: I I/ B



**SGPA 8.73**  
**HEMANTH.S**  
Year/Sem/Sec: I/I/ B



**SGPA 9.45**  
**POOJITHA.S**  
Year/Sem/Sec: I/I/C



**SGPA 9.18**  
**ARINI.R**  
Year/Sem/Sec: I / I / C



**SGPA 8.86**  
**YUVAASREE.V**  
Year/Sem/Sec: I / I / C



**SGPA 9.73**  
**MADHUMITHA.M**  
Year/Sem/Sec: I / I / D



**SGPA 9.45**  
**ANUSHA.R**  
Year/Sem/Sec: I / I / D



**SGPA 9.41**  
**PREETHI.V**  
Year/Sem/Sec: I / I / D



**CGPA 9.05**  
**PADMASRI R**  
Year/Sem/Sec: II/III/A



**CGPA 8.91**  
**DHARSHINI T**  
Year/Sem/Sec: II/III/A



**CGPA 8.91**  
**SUGANTHAN R**  
Year/Sem/Sec: II/III/A



**CGPA 8.68**  
**LOGESHVAR C**  
Year/Sem/Sec: II/III/B



**CGPA 8.66**  
**LEETHICA S**  
Year/Sem/Sec: II/III/B



**CGPA 8.64**  
**AGILAN C**  
Year/Sem/Sec: II/III/B



**CGPA 9.26**  
**SABTHA SREE G P**  
Year/Sem/Sec: II/III/C



**CGPA 9.21**  
**NITHYALAKSHMI S**  
Year/Sem/Sec: II/III/C



**CGPA 9.15**  
**SNEGA S**  
Year/Sem/Sec: II/III/C



**CGPA 9.34**  
**B.THENMOZHI**  
Year/Sem/Sec: II/III/D



**CGPA 8.96**  
**V.KOWSALYA**  
Year/Sem/Sec: II/III/D



**CGPA 8.76**  
**A.MEENA**  
Year/Sem/Sec: II/III/D



**CGPA 8.83**  
**MONISHA CLEMENCEAU D**  
Year/Sem/Sec: III/V/A



**CGPA 8.82**  
**BHARANITHARAN M**  
Year/Sem/Sec: III/V/A



**CGPA 8.81**  
**RAAGASUDHA V**  
Year/Sem/Sec: III/V/A



**CGPA 8.96**  
**JANANI R**

Year/Sem/Sec: III/V/B



**CGPA 8.95**  
**MADUMITHAN E**

Year/Sem/Sec: III/V/B



**CGPA 8.63**  
**C.ELAKSHME DEVI**

Year/Sem/Sec: III/V/B



**CGPA 8.95**  
**ASWINI.K**

Year/Sem/Sec: III/V/C



**CGPA 8.86**  
**SRI RAJADURAI.S**

Year/Sem/Sec: III/V/C



**CGPA 8.82**  
**VARSHA.S**

Year/Sem/Sec: III/V/C



**CGPA 9.21**  
**SUSHMITHA T**

Year/Sem/Sec: IV/VII/A



**CGPA 9.14**  
**JIVANTHIKA AVISYAA D**

Year/Sem/Sec: IV/VII/A



**CGPA 9.0**  
**PUSHPA M**

YEAR/SEM/SEC: IV/VII/A



**CGPA 9.08**  
**VENKADANATHAN.A**

Year/Sem/Sec: IV/VII/ B



**CGPA 9.03**  
**JANANI.S**

Year/Sem/Sec: IV/VII/B



**CGPA 9.01**  
**ANUSHRI G**

Year/Sem/Sec: IV/VII/B



**CGPA 8.97**  
**VIDHYA LATCHOUMI T**

Year/Sem/Sec: IV/VII/C



**CGPA 8.96**  
**YOGAVARSHINI R**

Year/Sem/Sec: IV/VII/C



**CGPA 8.91**  
**KEERTHANA M**

Year/Sem/Sec: IV/VII/C

**PLACEMENT RECORD**

**2023 - 24**



**TCS PLACED STUDENTS**

*Congratulations to All Placed Students*

## OUR RECRUITERS



### Company-wise Placements

S.No.	Company	Package (Lakhs per Annum)	Offers
1	Accenture	4.6	7
2	Data Pattern	4.2	1
3	Ford Pega	6	3
4	Hexaware	4	16
5	Integra	2.15	2
6	KAAR	6.5	1
7	Mannschaft Engineering	4	1
8	Renault Nissan Technology	4.25	5
9	Societe Generale	5.43	2
10	Sureti Insurance Marketing Pvt. Ltd	3	1
11	TCS Digital	7	4
12	TCS Ninja	3.36	32
13	TCS Pega	3.86	5
14	Visteon	7	5
15	WABCO India ltd	2.1	1
16	Vodafone Pega	7.25	1
17	Zoho	7	1

## PLACEMENT TRAINING



### CRANES VARSITY

Cranes Varsity, a division of Cranes Software International Ltd, has empowered professionals with a perfect blend of technology and education since 1998. As an EdTech platform, we offer high-impact, hands-on training to graduates, universities, working professionals and corporate and defense sectors, bridging the gap between technology, academia and industry.

**Placement Oriented Program in Embedded & Automotive - 240 hrs**

#### Course Contents

##### Generic

- Programming in C and Data structures
- Project on C and DS
- OOPS with C++

##### Embedded Specialization

- Linux System Prog and Socket Programming
- ARM 7 & Cortex M3 programming using Embedded C
- RTOS – Hands-on using FreeRTOS of Amazon
- Project on Embedded Systems

##### Automotive Specialization

- Communication Protocols - UART, SPI, I2C, (Project)
- Model-Based Design using Matlab & Simulink (Project)
- Project on Automotive Application

# 40

Students getting  
Training  
(Batch -1)

# 45

Students getting  
Training  
(Batch -2)

## EDITORIAL BOARD

### Editor In Chief

**Dr. P. Raja**

Professor and Head, Dept. of ECE

### Staff Coordinator

**Dr. S. Dhivya**

Assistant Professor, Dept. of ECE

### Year Coordinators

**Dr. N. Jothy**

Final Year

**Dr. P. Arunagiri**

Third Year

**Dr. S. B. Lenin**

Second Year

**Dr. R. Kurinjimalar**

First Year

### Student Coordinators

**Ramya Devi.M**

Final Year - A

**Sanjay.A**

Final Year - A

**Dhanaveeran.V**

Third Year - A

**Gunaseelan.M**

Third Year - A

**Dev Vishwaa.S**

Second Year - A

**Keerthivasan.S**

Second Year - A

**Parthasarathi.C**

Second Year - A

**Sankari.G**

Final Year - B

**Sangeethasree.P**

Final Year - B

**Pavithran.K**

Third Year - B

**Yuvashakkthi.K**

Third Year - B

**Gopinath.K**

Second Year - B

**Krithika.K**

Second Year - B

**Kunal.R**

Second Year - B

**Rupak.B**

Final Year - C

**Suganya.B**

Final Year - C

**Priyadharshni.S.T**

Third Year - C

**Kirushoth.K**

Second Year - C

**Rahul.K**

Third Year - D

**Shivahari.S**

Third Year - D

**Dhivagar.V**

Second Year - D

**Gayathri.D**

Second Year - D