



NEWSLETTER

Volume 13 - Issue 1 - 07 September, 2022

JUNE 2022 - AUG 2022

Department of
Electronics and Communication Engineering

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

Puducherry-605 107



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.

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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.

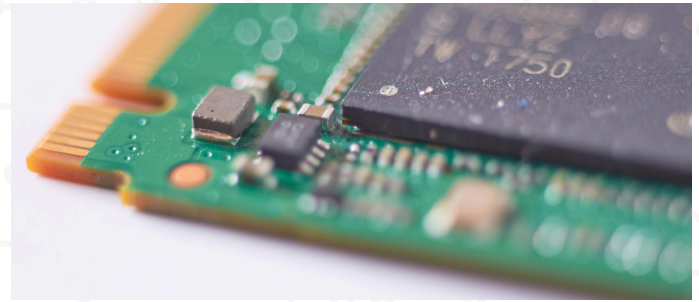
M4: Ethical Values : To instill a deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.



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.

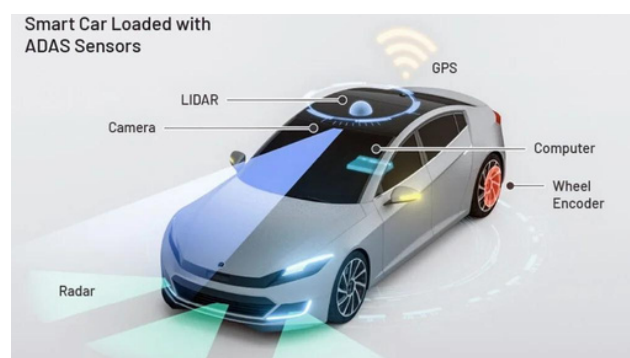
M3: Employability and Entrepreneurship: To enhance inter and intra personal skills among students to make them employable and entrepreneurs.

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

KNOWLEDGE SHARING SESSION



A guest lecture on "Advanced Driver Assistance System" was held on August 20, 2022. The lecture was attended by 160 students, who gained valuable insights into the latest advancements and technologies in driver assistance systems, which are crucial for modern automotive safety and efficiency. The session covered topics such as adaptive cruise control, lane-keeping assist, and collision avoidance systems, emphasizing real-world applications and future trends.



FACULTY DEVELOPMENT ACTIVITIES

- **Asst. Prof. Srividhya** participated in the 6 – Day Faculty Development Program on “Outcome Based Education”, organized by the department of Electronics and Communication Engineering, CK College of Engineering, Cuddalore, from 24th August 2022 to 30th August 2022. equipped with the skills and knowledge to implement an education model centered on achieving specific learning outcomes. It covers curriculum design, assessment strategies, and teaching methodologies that align with desired student competencies, fostering enhanced learning experiences and measurable academic success.



STUDENTS CORNER



Second year students **Saravanakumar M.L., S.A .Ajay kumar, R. Vijayaraghavan** has participated in Robo war and won First Prize-(2,,500) from SNS INSTITUE OF TECHNOLOGY on 25.7.2022

WORKSHOPS

- The Hands-on Training on ‘Simulation using Proteus’ was successfully conducted by IEI – The Institution of Engineers (India) on July 9, 2022. This workshop aimed to provide students with practical skills in using Proteus, a widely-used simulation tool for designing and testing electronic circuits. A total of 210 students benefited from the training, gaining hands-on experience in simulating and analyzing electronic designs.



IEI's Proteus simulation workshop on July 9, 2022, trained 210 students in electronic circuit design.

RESEARCH ACTIVITIES

Proposal submitted to various Funding Agencies



Dr.P.Raja and Dr.N.Saranya has the submitted 3 year proposal on “Indigenous Development of UWB microwave imaging system(MWI) for Early Breast Cancer Detection ” for Rs. 23,50,000/-.



Patents

- **C.Janani, Dr.P.Raja, Dr.N.Saranya, S.Josikaparvady** have filed for the patent title, “CNN based Intelligent Vehicle Lighting and Speed System”.
- **Dr. S. B. Lenin, Dr.P.Raja, Dr.R.Kurinjimalar, V.Sanjay** have filed for the patent title, “Intelligent Glove Lidar Sensor for Blind People”.
- **Dr.P.Raja, Mrs.R.Gayathri, Dr.N.Jothy, Dr.S.Ashok Kumar** has filed for the patent title, “Real Time Air Quality Monitoring and Purification System”.

Publications

- **Pratheep J.**, Madurakavi K., Sitharthan R., Shanmuga Sundar D., Thamizharasan S., and Manimaran P. presented a study on a “Tunable Optimal Dual Band Metamaterial Absorber” designed for high sensitivity THz refractive index sensing, published in *Nanomaterials*, highlighting advancements in metamaterials for precision sensing applications.
- **S. Ashok Kumar**, J. Charles Pravin, V. Sandeep, and R. Sridevi published their work on the “Implementation of Charge Plasma-Based Dopingless Multi-Bridge Channel MOSFET for Enhanced Performances” in *Physica E: Low-dimensional Systems and Nanostructures*, focusing on innovative semiconductor device designs for improved performance.
- **S. Ashok Kumar, V. Logisvary**, and R. Dhanush published their research on the “Implementation and Analysis of an L-Shaped Tunnel Field Effect Transistor by Incorporating Gate and Oxide Engineering” in the *Journal of Nano- and Electronic Physics*, highlighting advancements in transistor design through gate and oxide engineering for improved electronic performance.
- **Ramya Jothikumar, Rangasamy .N**, “Complexity Reduction by Signal Passing Technique in MIMO Decoders” at the Proceedings of Fourth International Conference on Computer and Communication Technologies
- **N. Jothy**, R. Gayathri, S. Hemamalini, K. Harini, “Smart Diabetic Footwear” at the International Conference on Innovative and Cutting Edge Technologies in Electrical , Electronics, Computer Engineering and Information Technology (ICICEECI'22).
- **K. Dhanasekaran**, P. Srividhya, and S. Ganesan presented their research on “Artificial Intelligence-Based Image Segmentation to Detect Covid-19” at the International Conference on Emerging Innovative Technologies in Engineering, highlighting the use of AI for accurate and efficient detection of COVID-19 through advanced image analysis techniques.
- **Janani Chandran**, Kala Hariharan, NithyaRani. N, “Comparative Investigation of Diverse Controller for the Temperature Control of Coating Plant Air Conditioner” at the International Conference on Emerging Innovative Technologies in Engineering
- **V. Logisvary** and N. Jothy presented “Efficient and Deployable Smart Farm Processing System Using Machine Learning” at the International Conference on Emerging Innovative Technologies in Engineering, demonstrating how machine learning can optimize and streamline farm operations for better productivity and sustainability.
- **Ashok Kumar S**, Jenyfal Sampson, Sivakumar P., and Velmurugan S.P. published their study on the “Effect of Work Function Tuning over the Device Characteristics of GAA SNSTFT” in *Silicon*, investigating how adjustments in work function impact the performance and characteristics of Gate-All-Around (GAA) Silicon Nanowire Schottky-Barrier Thin-Film Transistors (SNSTFTs).
- **P. Raja and S. Dhivya** published their research on “Active Noise Cancellation for Acquiring Desired Informative Audio by Suppressing Unwanted Noise Distortion” in *Neuroquantology*, exploring advanced techniques for improving audio clarity by effectively reducing noise interference.
- **S. B. Lenin**, N. Tamarasan, and L. Nithyanandan published their study on the “Performance of MIMO MC-CDMA System with Relay using Adaptive Pilot Channel Estimation” in the *Journal of The Institution of Engineers (India): Series B*, focusing on enhancing wireless communication systems through adaptive channel estimation techniques in relay-assisted MIMO setups.

CLUB ACTIVITIES

Elektors Club

The Elektors Club has held a variety of events to explain the methods of effective debating by providing examples for proper understanding, to assist in the development of new thinking and problem-solving skills, to build fundamental understanding of the language, the importance of good communication for the conduct of effective debate, and the importance of quizzes to assess their knowledge in various areas.

These sessions emphasized the importance of critical thinking, logical reasoning, and the ability to articulate ideas clearly and persuasively. By engaging in mock debates and group discussions, participants were able to practice real-time argumentation and receive constructive feedback from peers and mentors.



Retro Fitting for Electric Vehicles
08.07.2022



Circuit Framing Session
09.07.2022



Learning Concept of Programming Language
29.07.2022 – 30.07.2022



Cybernetics
06.08.2022

PROFESSIONAL BODIES ACTIVITIES

The Institution of Electronics and Telecommunication Engineers (IETE)



27th July 2022, was a start of a great journey. This was organized by the Synergetic Effort of SMVEC ISF members where the main objectives of ISF were discussed. The meeting was inaugurated by the Professor and Head of ECE, Dr.P.Raja followed up by the chief guest, Mr.K.Manikandan from GT Electronics Pvt. Ltd, the Professor, and Head of Mech, Dr.K.Velmurugan, and the ISF Faculty Coordinator, Dr.N.Saranya. A panel discussion was conducted by P.Naveen Chander, the Moderator along with the Panelists Mr.K.Manikandan, Dr.R.Kurinjimalar, Dr.N.Jothy, and R.Anantapadmanaban on the topic, "Empowering graduates for the world they don't know yet" to discuss and share tips to the upcoming graduates on how to survive and succeed in the current competitive world.



*Introduction Speech in the Organisation of
The Institution of Electronics and Telecommunication
Engineers (IETE)*



*First Orientation Programme for
the IETE Students Forum*



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The Institution of Engineers (India) IEI



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Hands On Training for Simulation using Proteus
09.07.2022



A guest lecture on "Advanced Driver Assistance System" was held on August 20, 2022. The lecture was attended by 160 students, who gained valuable insights into the latest advancements and technologies in driver assistance systems, which are crucial for modern automotive safety and efficiency. The session covered topics such as adaptive cruise control, lane-keeping assist, and collision avoidance systems, emphasizing real-world applications and future trends.

The guest lecture on "Advanced Driver Assistance Systems" (ADAS) delved into cutting-edge technologies designed to enhance vehicle safety and driving efficiency. The speaker discussed various ADAS features, including adaptive cruise control, lane departure warnings, and autonomous emergency braking, emphasizing their role in reducing accidents and improving road safety. The lecture also covered the integration of sensors, cameras, and AI in modern vehicles to enable real-time decision Making.

EXTENSIONAL ACTIVITIES (NSS)

World Paper Day

Every year on July 12, we observe World Paper Bag Day to raise awareness of the positive aspects of utilizing paper bags instead than plastic ones. The aim of this day is to increase public awareness of the harm that plastic causes to the environment. Single-use plastic bags take hundreds of years to decompose in landfills; paper bags may quickly replace them. Provide an overview on how to recycle old waste to make paper bags under the guidance of Mr. S. Ganesan, the NSS in charge. Students exhibit an overwhelming need to learn how to produce paper bags and they do so.

To further emphasize the importance of this initiative, Mr. S. Ganesan, the NSS in charge, guided students through a hands-on workshop where they learned the entire process of recycling old waste materials into durable and eco-friendly paper bags. The session highlighted the environmental and economic benefits of recycling, encouraging students to creatively repurpose discarded items.



Seminare on World Paper day



Detailed discussion on World paper Day With Mr.S. Ganesan

Independence Day March Past

The band starts up and a high-pitched voice gives an order as the drumming kicks in. Something is stirred inside of us by the coordinated sweep of arms and the sound of thudding feet. A march past is not only magnificent, but it also inspires people for some reason. . Maybe it's the pride and respect the cadets bring to it. Their unmatched bearing and movement convey a sense of confidence in themselves. It is believed that the march past practice represents the cadets' vow to maintain their physical fitness.

On August 15, 2022, our college celebrated the 76th Independence Day with a variety of events. NSS candidates from the Department of Electronics and Communication took part in the Inter-Departmental March Past Competition and won the Second Prize.

The dedication and hard work of the NSS cadets were evident as they proudly represented the Department of Electronics and Communication in the competition. Their achievement not only brought honor to the department but also underscored the importance of discipline and teamwork. The event served as a reminder of the values that the cadets embody—commitment, perseverance, and patriotism.



PLACEMENT RECORD

136 offers

Company-wise Placements

S.No.	Company	Package (Lakhs per Annum)	Offers
1	SOPRA STERIA	6.00	4
2	TCS DIGITAL	7.00	2
3	TCS NINJA	3.36	70
4	CTS GENC NEXT	6.75	1
5	CTS GENC ELE	4.50	1
6	CTS GENC	4.00	47
7	ZOHO (Placement Offer)	5.60	2
8	VIRTUSA (Placement Offer)	5.50	9

HIGHER STUDIES



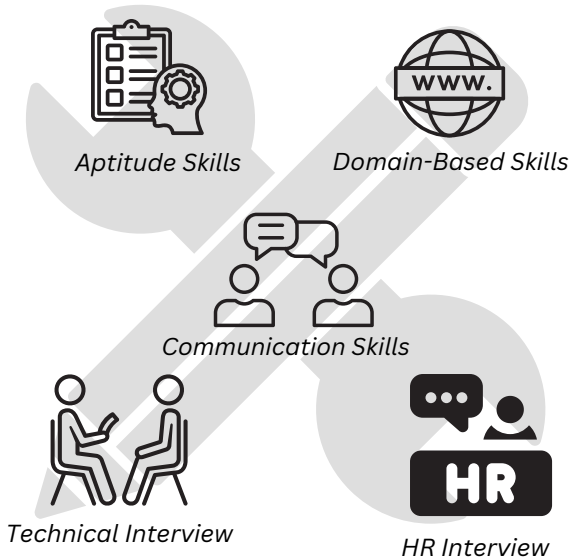
S.No.	Name of the Alumni	Name of the Courses Undergoing & University/College
1	PARTHASARATHY .M	MS-Engineering Management, University of York,England
2	AMIRTHA VARSHINI.C	M.B.A Banking Technology, Pondicherry University
3	AKKASH.P	M.B.A General, Pondicherry University
4	AGILAMBIGAI.M	M.B.A General, Pondicherry University
5	BHUVANESHWARI.G	M.Tech (CSE), Pondicherry University
6	DEVAGANESH.K	Master of Science in Computer Science Software Engineering Spring 2023, EPITA School of Engineering & Computer Science(France)
7	SREE KAMALI D.K	M.B.A Banking Technology, Pondicherry University

PLACEMENT TRAINING



PEGA Systems Training

Pega Systems, often referred to simply as Pega, is a software company known for its Pega Platform, which provides tools for customer relationship management (CRM), business process management (BPM), and robotic process automation (RPA). Pega's platform allows organizations to build and deploy enterprise applications to streamline processes, improve customer engagement, and drive digital transformation.



Session on Hands on Training Conducted by PEGA Systems

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Kumaran.C

Second Year – A

Second Year – A

Final Year – B

Final Year – B

Third Year – B

Third Year – B

Second Year – B

Second Year – B

Second Year – B

Final Year – C

Final Year – C

Third Year – C

Second Year – C

Second Year – C

Second Year – C

Second Year – C

Second Year – C