



NEWSLETTER

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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.

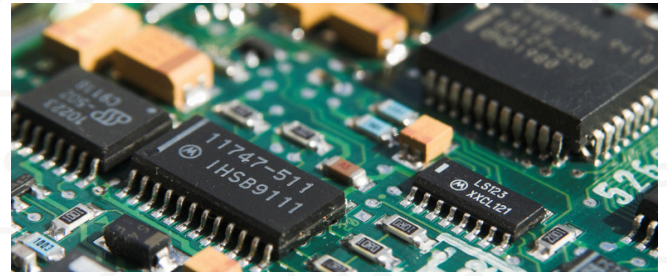
M4: Ethical Values : To instill a deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.



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.

FACULTY DEVELOPMENT ACTIVITIES

Mrs. S. Jayanthi, Assistant Professor in the Department of Electronics and Communication Engineering, participated in a comprehensive Five-Day Online Faculty Development Program (FDP) focused on the theme 'Inculcating Universal Human Values in Technical Education'. This program, organized by the All India Council for Technical Education (AICTE), took place from September 19, 2022, to September 23, 2022. The FDP aimed to enhance educators' understanding and implementation of core human values within the technical education framework, equipping them with innovative strategies to integrate these values into their teaching practices and curriculum development.



STUDENTS CORNER

It is with great pride that we announce the remarkable achievement of our third-year students, Saravanakumar M.L., S.A. Ajay Kumar, and R. Vijayaraghavan, who have won First Prize in the highly competitive Robo War competition held at Achariya College of Engineering, Pondicherry, on November 25, 2022. Their expertly designed and engineered robot triumphed over strong competition, showcasing their outstanding teamwork, technical expertise, and passion for robotics.



Third year students **Saravanakumar M.L. S.A. Ajay kumar R. Vijayaraghavan** has participated in Robo war and won First Prize from Achariya college of Engineering, Pondicherry on 25.11.2022 .



Model of **Saravanakumar M.L. S.A. Ajay kumar R. Vijayaraghavan**

This victory brings significant honor to both the students and our institution, demonstrating their commitment to innovation and excellence in the field of engineering. We extend our heartfelt congratulations to Saravanakumar M.L., S.A. Ajay Kumar, and R. Vijayaraghavan and eagerly anticipate their future accomplishments. Their success brings immense pride to our institution, further solidifying its reputation for fostering talent and nurturing future innovators.

Third year students **Saravanakumar M.L. S.A. Ajay kumar R. Vijayaraghavan T.Sushmitha M.Sreeja** has participated in Robo war and won First Prize of Rs,5,00,000/- from National institute of Technology , Calicut on 25.10.2022, showcasing exceptional skills in robotics, strategy, and teamwork, which led them to outshine competitors from across the country. Their dedication and hard work were evident in every match, culminating in a well-deserved victory.



Saravanakumar M.L., S.A. Ajay Kumar, R. Vijayaraghavan, T. Sushmitha, and M. Sreeja won First Prize in Robo War at NIT Calicut, earning Rs. 5,00,000/- on 25.10.2022.

WORKSHOPS

The guest lecture on the topic “Advanced Driver Assistance System using ARDUINO” was successfully conducted on October 29, 2022, in the Conference Hall. This informative session greatly benefited a total of 110 students who attended. During the lecture, participants gained valuable insights into the various ways in which Arduino technology can be effectively utilized to develop sophisticated driver assistance systems. The session also included practical demonstrations, showcasing real-time applications of these systems, which helped students better understand the potential and functionality of Arduino in this field.



Introduction to ISTE Forum on 07.10.2023

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

- **Dr.P.Raja, Dr. P. Arunagiri, Dr. V. Bharathi, Dr. S. B. Lenin** have filed for the patent title, “Smart System for Sand Testing and Suitable Fertilizer to Maximize the yield efficiency”.
- **Dr.N. Saranya, Dr.P.Raja** have filed for the patent title, “A novel frequency selective surface based CPW-fed planar monopole antenna for ultra wideband applications”.
- **Dr. N. Saranya, Dr. P. Raja, Dr. S. Ashok Kumar, B. Agarvin, R. Logesh, G. Chandranath, C.R. Ajaydev** has filed for the patent title, “A Compact IoT Based Automatic Rover System for Smart Industrial Tank Manufacturing”.
- The patent for the “CNN-Based Intelligent Vehicle Lighting and Speed System,” filed by **C. Janani, Dr. P. Raja, Dr. N. Saranya, and S. Josikaparvady**, has been granted in India.

Publications

- **P.Raja, Mohamed Faisal B, Naveen Chander. P, Prakash. V**, “Performance Analysis of Charge-Plasma based doping less Nano Wire Field Effect Transistor for Sub 10 nm” in the Journal of Nano- and Electronic Physics.
- **J. Pradeep, Erick Jeffery.N, Nasser Hussain. J, Saranraj.M**, “Enhanced Recognition System for Diabetic Retinopathy Using Machine Learning And Deep Learning Techniques” in the Journal of Population Therapeutics and Clinical Pharmacology.
- **S. Ashok Kumar, Roshan Solomon .A, Thirumurugan.T, Dhanraj**, “Performance analysis of incorporating buried metal layer in junction less multichannel field effect transistor” in the Journal of Nano- and Electronic Physics.
- **S.Dhivya, R.Priya, R.Priyadharshni**, “Automated Fault Detecting and Monitoring System of Transmission Line Power Systems” at the International Conference on Innovative and Cutting Edge Technologies in Electrical , Electronics, Computer Engineering and Information Technology (ICICEECI’22).
- **N. Jothy.N, R. Gayathri, V. Logisvary**, “Detection and Recognition of Unclear Vehicle Number Plate Using YOLO V5 Algorithm” at the International Conference on Emerging Innovative Technologies in Engineering.
- **N. Tamilarasan, S. B. Lenin, R. Priyadharshni**, “Extraction of Chitosan from Shrimp Shell and Stem Juice from Musa Paradisiaca Blended with Polyvinyl Alcohol for Wound Healing Application” at the International Conference on Emerging Innovative Technologies in Engineering.
- **S. Ganesan, A. Saran, A. Sanjay, C. Muthukumaran, S. Surya Raja**, “Design and Development of APM 2.8 controller based drone system for healthcare application” at the International Conference On Circuit Power And Computing Technologies ICCPCT-2023.
- **Jayanthi S, Anusree Manoj , Deepika S, Nivethitha D, Kaniya Kayathiri V**, “Analysis and rectification of unwanted triggering of silicon Controlled rectifier (SCR) in online uninterruptible power supply” in the Journal of Data Acquisition and Processing .
- **S.Pushparaj, Sanjay N, Sivasankaran. M, ThamizhChemma**, “Prediction of Heart Disease using Hybrid of CNN-LSTM Algorithm” in the Journal of Survey in Fisheries Sciences.
- **R.Gayathri, K.Sneha, T.Shakila, K.Thatchitha , V.Saumya**, “Power lines and lane detection using deep learning based yolo V5 algorithm for smart agriculture” in the Journal of Data Acquisition and Processing.

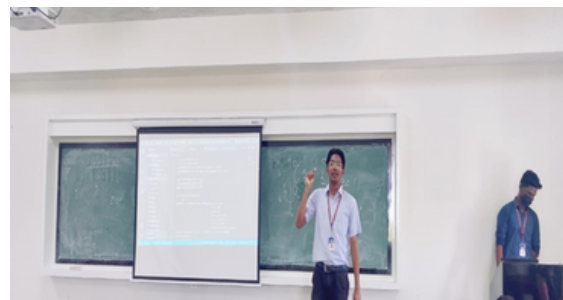
CLUB ACTIVITIES

Elektors Club



Elektor club presented a programme named "CYBERNETICS" for the first year students . We discussed the topic and shared our ideas. Students learned crucial information and came to know the future of technology. As we develop the technology of future, Students can able to create a better world in the long term. This implies that a wide range of events will take place as technology permeates with every aspect of our existence.

The programme was focused around the ability to understand and work with complicated technologies. This would give their start-up with a nodding acquaintance because they are recent graduates. Prior to specific coding techniques and programmes that our juniors would find helpful and think about next technology.



Cybernetics on 06.09.2022



Ability to understand and work with complicated technologies



Cybernetics

Robotics and Automation Club

On Saturday, September 3, 2023, the Robotics and Automation Club hosted an engaging activity titled "Modern Designing of Bot" for first-year students in their second semester, Section C. The session focused on the latest advancements in bot design, offering participants hands-on experience and insights into cutting-edge technologies in robotics. The event aimed to enhance students' understanding of modern bot design principles and foster their interest in the field of robotics and automation.



Seminar session by our third year students on Designing of Bot for line follower on 03.09.2023



Members delivering about the Bot Components.



Members explaining about Construction



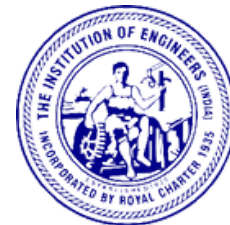
Interaction between the members and students

PROFESSIONAL BODIES ACTIVITIES

Institution of Engineers(India)

The guest lecture on “Advanced Driver Assistance System using ARDUINO” was conducted on October 29, 2022, in the Conference Hall, benefiting 110 students. The session provided insights into how Arduino can be utilized to develop advanced driver assistance systems, including practical demonstrations of real-time applications.

On October 29, 2022, a total of 110 students benefited from the event held in the Conference Hall, where they gained valuable insights and hands-on experience in various aspects of modern bot design, facilitated by the Institution of Engineers(India)



Lecture on Advanced Driver Assistance System using ARDUINO

PLACEMENT RECORD

Company-wise Placements

S.No.	Company	Package (Lakhs per Annum)	Offers
1	MULTICORE WARE	7.20	1
2	EMBEDUR	8.00	2
3	PEGA TCS DIGITAL	7.00	2
	PEGA TCS NINJA	3.86	6
4	KAAR TECHNOLOGIES	6.50	8
5	PEGA HEXWARE	6.00	4
6	SOCIETE GENERALE	6.60	2

Congratulations to All Placed Students

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.



Aptitude Skills



Domain-Based Skills



Communication Skills



Technical Interview



HR Interview



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