



SRI MANAKULA VINAYAGAR

ENGINEERING COLLEGE

An Autonomous
Institution



NEWSLETTER

"ELECTIC"

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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**TATA
CONSULTANCY
SERVICES**

About The Department



The department of Electrical and Electronics Engineering was established in the year 1999 with a sanctioned intake of 40. With its strenuous effort shown in academics and extra-curricular activities, the department magnifies gradual growth in its intake to 60 in the academic year 2001, upgraded to 120 in 2004 and elevated to 180 in 2011. In its long haul, with a vision of providing finest postgraduate programme, the department introduced M.Tech in Power Electronics and Drives with an intake of 18. To add jewel in the crown, the department received research center in the academic year 2020-2021 for promoting research attitude among the young aspirants. In the quality check of NBA, the department has been accredited in 3 cycles which is valid up to 30th June 2025.

The department is unique in its own ways by promoting excellence in Electrical Engineering and fulfilling its role in the era of new millennium and meets the needs and demands of various industrial sectors. With the intent of instilling research approach among students, the department is heedful in Research & Development projects funded by governmental organizations such as DST and MHRD. In its augmentation, the department involves in collaborative research with industries such as LED forse India, ARR KAY controls, Radiance India, Kailash transformers, Sree Rajeswari Intechs and coupled with its gradual proliferation,

the department has signed MoU with Pantechpro Ed., Aurotech transformers, Appasamy associates, Surya enterprises, Abirami Enterprises. In Conjunction with Appasamy associates and Pantechpro Ed, the department has established Industry supported laboratories for the glorification of students.

With determined hope and optimism, the department has dedicated and well qualified faculty members who manifested to be specialized in Power Systems, Power Electronics and Drives, Electrical Machines, Embedded Systems, Renewable Energy, Electric Vehicle etc. with a strive of establishing a Centre of excellence in technical education which in turn will bring out technocrats with extraordinary skills and societal commitment.

Along with the specialization, the department is intense in providing updated curriculum by covering the emerging areas like Renewable Energy Systems, Embedded System, Electric Hybrid Vehicle, Industrial Automation and Control and Artificial Intelligence. Besides, the students are replenished with advanced international courses for enhancing their technical skills and programming abilities to get acquainted with new trends in technology and develop overall potential of the students in diversified aspects.

Vision of the Institute

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

Mission of the Institute

- ♦ **M1: Quality Education:** To provide 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 deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

Vision of the Department

To promote proficiency in the field of Electrical and Electronics Engineering by creating a stimulating environment for research, innovation and entrepreneurship.

Mission of the Department

- ♦ **M1: Quality Education:** To impart high quality technical education with problem solving capabilities by innovative pedagogy in emerging technologies.
- ♦ **M2: Industrial and Societal needs:** To cater the dynamic needs of the industry and society by strengthening industry-institute interaction.
- ♦ **M3: Research and Innovation:** To nurture the spirit of research attitude by carrying out innovative technologies pragmatically.
- ♦ **M4: Placement and Entrepreneurship:** To inculcate the professionalism in career by advancing synergetic skills to compete in the corporate world.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Professional Knowledge

To possess strong educational foundation in Electrical and Electronics Engineering to attain successful career with professional responsibility.

PEO2: Innovative Skills

To enrich the skills to design and develop innovative solutions for engineering problems in a multidisciplinary environment.

PEO3: Ethics

To actively embrace leadership qualities for achieving professional goals with ethical values.

PEO4: Adaptability

To enhance intellectual competency along with technical skills by adapting to the current trends through eternal learning.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Core Proficiency

Utilize the engineering core knowledge to identify, formulate, design, and investigate the complex engineering problems of power electronics, electrical machines and power systems.

PSO2: Cutting Edge Technologies

Explore the new cutting edge technologies in the field of Electric vehicle, Automation, Artificial Intelligence, Robotics and Renewable Energy to compete in global market.

PSO3: Design and Evolution

Capability to comprehend the technological advancements with the usage of modern design tools for analysing and designing systems to confront the rapid pace of industrial innovations.

PROGRAMME OUTCOMES (POs)

PO1: Engineering Knowledge:

Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis:

Identify, formulate research literature and analyze complex engineering problems reaching sustainable conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3: Design and Development of Solutions:

Design solutions for complex engineering problems and design components or processes that meet specified needs with appropriate consideration for public health and safety, and cultural, societal and environmental considerations.

PO4: Conduct Investigations of Complex Problems:

Use research based – knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

PO5: Modern Tool Usage:

Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The Engineer and Society:

Apply reasoning informed by contextual knowledge to assess societal, safety, health, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PROGRAMME OUTCOMES (POs)

PO7: Environment and Sustainability:

Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

PO8: Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and Team Work:

Function effectively as an individual and as a member or leader in diverse teams and in multi disciplinary settings.

PO10: Communication:

Communicate effectively on complex engineering activities with the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

PO11: Project Management and Finance:

Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi disciplinary environments.

PO12: Life - long Learning:

Recognize the need for and have the preparation and ability to engage in independent and life-long learning broadest context of technological change.

GOLD MEDALISTS & UNIVERSITY RANK HOLDERS UNDER GRADUATE



KARPAGAM.N
2016-2020



ANBARASI.V
2015-2019



ABIRAMI.P
2014-2018



ANBARASI.D
2011-2015



SWATI.V
2010-2014



JANARTHANAN.J
2009-2013



AVINASH MURALI NAIR
2008-2012



SOWMYA.M
2007-2011



GANESAN.A
2006-2010



SHANMUGAM.R
2005-2009



AARTHY.M
2004-2008



VINOTH.P
2000-2004

GOLD MEDALISTS & UNIVERSITY RANK HOLDERS POST GRADUATE



**Abinaya
Saraswathy.T**
2011-2013



Sangeetha.T
2015-2017



Vesali.V
2017-2019

Under Graduate students university rank list year wise

Batch	Total Ranks	Ranks Obtained
2015-2019	9	1,2,3,5,6,7,8,9,10
2014-2018	Yet to be announced	1(Gold medal)
2013-2017	4	2,3,4,6
2012-2016	5	2,3,4,6,7,8
2011-2015	5	1,2,6,7,10
2010-2014	9	1,3,5,6,10,11,12,12,14
2009-2013	10	1,2,4,5,6,7,9,11,12,13
2008-2012	7	1,2,4,9,13,14,15

Post Graduate students university rank list year wise

Batch	Total Ranks	Ranks Obtained
2017-2019	3	1,2,3
2015-2017	2	1,2
2014-2016	1	1
2013-2015	6	2,3,4,6,7,9
2012-2014	6	2,4,5,7,9

Placement Percentage

Batch	Placement percentage%
2019-2023	92.3% Till Now
2018-2022	97.70%
2017-2021	97.22%
2016-2020	96.49%

University Pass Percentage

Batch	University pass percentage %
2018-2022	94%
2017-2021	98.2%
2016-2020	100%
2015-2019	90%

SMART INDIA HACKATHON

25th – 29th August 2022



Our team from Sri Manakula Vinayagar College of Engineering, Puducherry with team leader Dhilipkumar.S from Final year/EEE and his team members Rasin.A from Final year/EEE, Maheswaran.S & Monisha.I from Second year/ECE, Vikranthi M from Second year/ICE and Varadaraj H from Second year Mechatronics under the guidance of Dr.D.Raja Professor and Mr.C.Adrien Perianayagam Assistant Professor from the Department of EEE has provided the solution for problem statement “Ready to use First Aid Kit for Military use”. The students have designed a first aid kit model with unique features and won first prize. The winner team was honored with a memento and a prize amount of Rs 1 lakh from SIH 2022.

CII INNOVATION CONTEST – 2022

3 Days Boot Camp

17th – 19th October 2022



A three-day boot camp training was organized by CII Innovation Contest 2022 for our students from 17th – 19th October by Atal Incubation Centre Pondicherry Engineering College (AIC-PECF). Two teams from our department have been shortlisted for stage II with a team leader Savitha.M from Second Year and her team members Suwathy.M.S & Keerthiga.M from Second Year, and Rahul.T from first year. Another team with a team leader Bomidi Pujitha and her team members Jency Albiya.A.J & Lokeswari.G from final year

Innovation Challenge Contest

7th to 8th July 2022



SMVEC Incubation Center, Atal Incubation Center (AIC)-Pondicherry Engineering College Foundation and SMVEC IEEE Student Branch organized Simplif-i "A 2-Day Boot Camp" on July 7th and 8th, 2022 in SMVEC Auditorium conducted by Mr. Vishnu Varadan. V, CEO-AIC and Presidential Address was given by Shri. M. Dhanasekaran, Chairman and Managing Director, SMVEC Trust. Selected students were given training by the Atal Incubation Center. (AIC)

Lab Visit by the Team from MANATECH

21st September 2022



The General Manager, MANATECH Private Ltd., visited our Department Labs on 21.09.2022

31st October 2022

Academic Audit



Academic Audit was conducted on 31.10.2022. Expert members from other department performed the audit.

WORKSHOPS

25th -26th Jun 2022



Introduction to PLC and SCADA Technology
1 Day workshop

19th December 2022



Introduction to PLC and SCADA Technology
1 Day workshop



A two-day workshop on "ATOMS IN THE SERVICE OF THE NATION" was organized by the Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam in collaboration with Sri Manakula Vinayagar Engineering College on 25.07.2022 (Exhibition) and 26.07.2022 (Workshop). Students from various schools and colleges visited the exhibition and also attended the 2 days workshop.

A one day workshop on "Introduction to PLC and SCADA Technology " was organized by Siemens (industrial automation and machinery company.) on 19.12.2022.

Mr.Bhuvaneshwaran R, Engineer, SITRAIN, SIEMENS had demonstrated a few Hands-On experiments on "PLC and SCADA Technology" to II and III year EEE students

GUEST LECTURE

20th Jun 2022



Dr. P. Jayakumar delivered a lecture titled "INTELLECTUAL PROPERTY RIGHTS" to the II year EEE students on 20.06.2022

5th Aug 2022



Mr. Selvakumar, senior engineer, Qualcomm, Bangalore, delivered online guest lecture titled "HISTORY AND RECENT TRENDS ON MICROCONTROLLER" to the II year EEE students on 05.08.2022

12th Aug 2022



Mr. Kanagasabai kumaraswamy, Electrical Safety Engineer, KNPC, Kuwait, delivered guest lecture titled "ELECTRICAL SAFETY AND AREA CLASSIFICATION" to the II year EEE students on 12.08.2022

Sports

4th July 2022



EPL Cricket Event

Our students got an opportunity to showcase their talents and prove what they are capable off. The final year students of EEE were the Runners up in the EPL cricket event, conducted on the 4th of July 2022 and were rewarded by our chairman and Managing Director.

10th August 2022



ULTRAMATE Kabaddi Championship

Our management has conducted "ULTRAMATE KABADDI CHAMPIONSHIP" which was organized by the department of Electrical and Electronics Engineering. The finals were conducted on 10th August 2022. Our First and second year students were the winners and were rewarded by our Chairman and Managing Director on Independence Day.

11th Aug 2022



The EEE final years were the runners-up in that cricket event conducted on 11th Aug 2022 and were rewarded by our management on Independence Day.

NSS ACTIVITIES

CLUB ACTIVITIES



HACKATHON CLUB
Cycle Rally



PROGRAMMING CLUB
Yoga



13th Jun 2022

Programme



NSS helps the student to grow individually and also as a group. Our EEE students also have participated in events like friends of police, Plantation, Blood Donation, clean campus conducted by NSS



RENEWABLE ENERGY CLUB

EMBEDDED SYSTEM CLUB

[Club](#) [activities](#) [help](#) [students](#)



develop their sense of unity and teamwork, learning how to work with others to achieve their common goal. They help learners develop social skills.

Every Saturday our department allows students to conduct club activities. There are various clubs with their Innovative content and ideas , which encourages their clubs members to be inovative among the themselves in their learning process.

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