



REPORT ON IEEE STUDENT BRANCH

JUNE 2023 - AUGUST 2023

ABOUT THE 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.

ABOUT IEEE STUDENT BRANCH

The American Institute of Electrical Engineers and the Institute of Radio Engineers merged to create the IEEE on January 1, 1963. IEEE has over 460,000 members in 190 countries, with the U.S. based membership no longer constituting a majority. IEEE produces over 30% of the world's literature in the electrical and electronics engineering and computer science fields, publishing approximately 200 peer-reviewed journals and magazines. IEEE publishes more than 2,000 conference proceedings every year. The IEEE provides learning opportunities within the engineering sciences, research, and technology. IEEE offers educational opportunities such as IEEE e Learning Library, the Education Partners Program, Standards in Education and Continuing Education Units (CEUs). IEEE also sponsors a website designed to help young people better understand engineering, and how an engineering career can be made part of their future. Students of age 8–18, parents, and teachers can explore the site to prepare for an engineering career, ask experts engineering-related questions, play interactive games, explore curriculum links, and review lesson plans. Most IEEE members are electrical and electronics engineers, but the organization's wide scope of interests has attracted people in other disciplines as well (e.g., computer science, software engineering, mechanical engineering, civil engineering, biology, physics, and mathematics).



Technical Visit



The IEEE SB and CCE Department scheduled a technical visit to "Code Bind Technologies and Tech Volt Software Pvt. Ltd., Coimbatore" for June 9 and 10, 2023, from 10:00 AM to 12:30 PM. The first things the speaker covered were website design and construction, application development for multiple platforms while adhering to other marketing criteria, and software development. proceeded to talk about employment prospects in software and the importance of web applications in business contexts. A total of thirty-seven individuals made use of the technical visit.

Sudoku Puzzle



On June 23, 2023, from 2:00 pm to 3:30 pm, the Department of Electronics and Communication Engineering and IEEE SB hosted a "Sudoku Puzzle" event. The steps for solving Sudoku problems were broken down by Mr. P. Mahendra Peruman, an assistant professor in the Department of Electronics and Communication Engineering at SMVEC. Students' minds will be stimulated and their brains kept engaged by playing Sudoku.

Hands on training on installation of inverter and solar panel



A session titled "Hands on training on installation of inverter and solar panel" was organized by the IEEE SB and the EEE Department on July 1, 2023, from 10:00 AM to 12:30 PM. Approximately seventy Second Year EEE participants were present. The founder of Sri Annai Saraswathy Pvt Ltd, Mr. V. Karthi, gave a talk about solar-powered gadgets. An explanation of how to connect the inverter to the EB mains and batteries got the event underway. Later on in the workshop, we talked about installing solar panels based on our needs and how to maintain them for optimal performance. Solar-powered appliances, such as lights and pumps, were also included. The pupils learned how to use renewable energy resources efficiently thanks to this lesson.

Seminar on "Design Thinking: Methods for Implementation of Project"



A seminar on "Design Thinking: Methods for Implementation of Project" was arranged by the IEEE SB and the EEE Department on June 24, 2023. Approximately 102 first-year EEE participants were present. Dr. S. Ganeshkumaran, an associate professor at SMVEC, discussed the stages that go into implementing a project. The first part of the program included determining the region where project work needs to be begun. Next, a step-by-step approach to the project was covered. The topic of implementation and getting the intended outcome from the project was covered in the second half of the meeting. The students gained insight from this workshop about how to approach and carry out the project in an efficient manner.



Seminar on “Introduction to COMSOL Multiphysics”



An "Introduction to COMSOL Multiphysics" seminar was arranged by the IEEE SB and the EEE Department on July 1, 2023, from 2:00 PM to 4:00 PM. Approximately 102 first-year EEE students actively participated in the seminar. The introduction to COMSOL Multiphysics on Model Wizard and Simulation Workflow was delivered by Mr. C. Adrien Periyanyagam, Assistant Professor, EEE, SMVEC. Following the lesson, students had time to play with the software.

Full Stack Web Development



CCE Department & IEEE SB organized a workshop on "Full Stack Web Development", by Mr Prakash Velayudham, Founder and CEO, Code Builders Company, Bangalore on 8th July, 2023 between 02.30 PM to 04.30 PM. The Speaker begins the session by identifying a unique problem and provide solution for that problem and gave many examples. Then, explained about full stack web development concepts briefly. Finally concluded to set a big goal and try to achieve their goal by making small efforts to achieve in their future terms. A total of 56 participants attended the workshop and made use of it.

Guest Lecture on “Metaverse Technology”



The CCE Department and IEEE SB held a workshop on "Full Stack Web Development" on July 8, 2023, from 02.30 PM to 04.30 PM. Mr. Prakash Velayudham, the founder and CEO of the Bangalore-based Code Builders Company, conducted the session. The speaker defines a specific problem, outlines a workaround, and provides multiple examples to introduce the topic. After that, a quick recap of full stack web development principles was given. Ultimately, they made the decision to establish a high goal and try to progressively achieve it with minimal effort. 56 individuals in all used and attended the workshop.

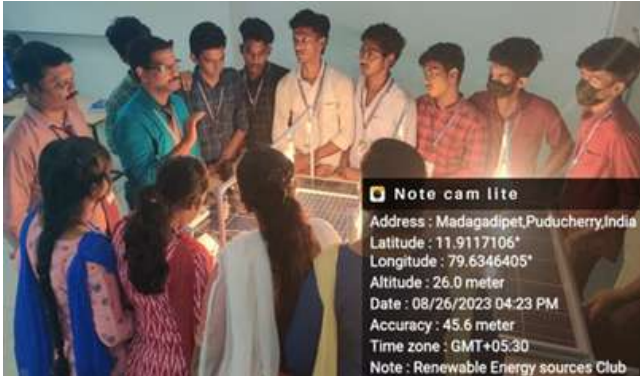
Vedic Mathematics



The EEE Department and IEEE SB arranged a "VEDIC MATHEMATICS" session on July 22, 2023, from 2:00 PM to 03:00 PM. About fifty-two First Year EEE students showed up for the session. Mr. S. John Powl, Assistant Professor of EEE at SMVEC, had shown in detail how to use shortcut strategies to solve the problems quickly. Later on, a brainstorming quiz was used to continue the activity. It was a mind-blowing exercise that actually forced the kids to address the problem on their own.



“Vedic M Hands-on training session on mathematics”



A practical training session was jointly organized by the IEEE Student Branch and the Department of Electrical and Electronics Engineering on August 26, 2023, from 1:00 PM to 4:00 PM. About sixty-nine Third Year EEE students took part in the training session with vigor. The training session covered embedded systems, programming, renewable energy systems, and electric automobile technologies. In addition to learning about a range of disciplines, students who attended the training sessions were introduced to how real-time applications operated.