



REPORT ON IEEE STUDENT BRANCH

December 2022 - February 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 worlds 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 organizations 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).



Guest lecture on “Application of Programmable Devices”



On December 3, 2022, from 2:00 PM to 3:30 PM, the BME department and the IEEE student section hosted a guest lecture by Mr. A. Aashiq Ahamed, Managing Director and Chief Trainer of Bistate Systems, Puducherry, on the topic of "Application of Programmable Devices." The event began with an introduction to VLSI industries and programmable devices by the speaker, and it ended with career options in the field of biomedical engineering.

Guest Lecture on “Cyber Security”

The CCE Department and IEEE SB organized a guest lecture on 'Cyber Security' by Mr. S. Sudeep, Community Moderator at Oracle Technology, Bengaluru, on December 3rd, 2022, from 11:00 AM to 12:30 PM. The speaker commenced the session with the basics of security purposes and concluded by discussing career opportunities in the software domain and how cybersecurity is beneficial for industry applications. Approximately 105 students participated in this program



Idea Presentation – Mini Project Contest



The Idea Presentation - Mini Project Contest 2022 was hosted by the IEEE SB and the EEE Department on December 12, 2022. Both the hardware and software areas were addressed in the competition. For this event, 108 teams submitted ideas in total. Of those, 35 advanced to the first screening phase and actively presented their ideas to the Scrutiny Committee. Many original ideas that could benefit society as goods were presented by the students. The Scrutiny Committee gave their innovative ideas recognition and suggested possible improvements to make them into products.



Guest Lecture on “Interactive Animation- Animate CC”



Mr. T. Kathiravan, a freelance game and web development expert located in Puducherry, has been invited by the CCE Department and IEEE SB to give a guest lecture on "Interactive Animation - Animate CC" on December 17, 2022, from 2:00 PM to 4:30 PM. The lecturer gave an outline of the fundamentals of animation methods and emphasized their importance to start the conversation. During his closing remarks, he discussed the relevance of careers in animation to the business sector.

Webinar on “Applications of python programming”



The CSE Department of Puducherry Technological University, in association with the IEEE student organization, organized a guest lecture on December 17, 2022, from 2:00 PM to 4:00 PM. Dr. N. Sivakumar, an assistant professor in the CSE Department, spoke on the subject of "APPLICATION OF PYTHON PROGRAMMING." The lecturer started off by going over the basics of the internet and the web while presenting actual examples of Python desktop GUI design. He concluded by discussing career opportunities in the Python programming field. About 80 kids participated in this particular program.

Guest Lecture on “Technical Skills to crack the Placements”

On December 17, 2022, from 11:00 AM to 12:30 PM, the IT Department and IEEE SB hosted a guest lecture by Mr. Yuhan Praveen, Senior Software Developer at ZOHO, Chennai, on "Technical Skills to Crack Placements." The lecturer began by going over the fundamentals of the skills needed for placements. He wrapped up by outlining career options in the software sector and describing different approaches to problem-solving with examples from the actual world of business.





One day workshop on “PLC and SCADA”



Together with IEEE SB, the EEE Department organized a one-day workshop on "PLC and SCADA" on December 19, 2022, from 9:00 AM to 4:00 PM. The session was led by Mr. Bhuvaneshwaran.R, Engineer at SITRAIN, Siemens. This workshop's main goal was to educate aspiring engineers with industrial automation's theoretical and practical aspects as well as the newest technology used to achieve it. The program was attended by 164 people in total, and they thought it was helpful.

Guest lecture on “Hardware in Loop for Embedded Controllers”

On December 30, 2022, from 2:00 PM to 4:00 PM, the IEEE SB and EEE Department had a guest lecture by Mr. Selvakumar S, Senior Engineer, Qualcomm, Bangalore, on "Hardware in Loop for Embedded Controllers." Hardware-in-the-loop (HIL) simulation is a technique that is used in the development and testing of complex real-time embedded systems. He explained about HIL simulation and its effective testing platform using MATLAB software. Finally concluded with career opportunity in the field of Embedded System. There are around 164 students were participated in this program.



Mini Project Contest 2023



A mini project contest was held on January 7, 2023, by the IEEE SB and the EEE Department. Both hardware and software were the subjects of the competition. 108 teams submitted concepts for this event, and 35 of them made the short list for the initial screening round. On December 12, 2022, these teams made an active presentation in front of the scrutiny committee. Students presented a plethora of fresh, creative ideas that, if turned into goods, would benefit society. The members of the Scrutiny Committee have narrowed down the top three winners in both software and hardware. The original ideas of the Scrutiny Committee were acknowledged, and they were also given recommendations on how to turn those ideas into products that would benefit society and help them become an entrepreneur.



Guest lecture on “Ramp up for Industry Ready”



The IEEE SB and the EEE Department invited Mr. S.K. Vickram, Senior Manager at Capegemini, to give a guest lecture titled "Ramp up for Industry Ready" on January 21, 2023, from 10.30 a.m. to 12.30 p.m. In total, 102 students participated in this program. Our professor defined being "industry ready" as having the skills and knowledge required to get employment and maintain productivity in the market. Every firm chooses its employees based on their technical and interpersonal skills. When asked about the program's overall impression, students stated that it was helpful and would help them in their professions.

Industrial Visiton “Starya Mobility Private Limited”

EEE Dept & IEEE SB organized an Industrial Visit at Legion Insulators Private Ltd., Bengaluru on 27th Jan, 2023. The main objective of the company is to Design, Manufacture and Supply High voltage Composite (Polymer) insulators. This technology is quite new in the prevailing industrial scenario of our country. These are different from the conventional ceramic or porcelain insulators and Glass Insulators. Our students gained practical knowledge on construction and performance of various Insulators used for transmission and distribution. Based on the performance, they can able to select suitable Insulator for particular applications. A total of 70 Participants visited the industry and made use of it.



Industrial Visit on “Legion Insulators Private Ltd.”



The IEEE SB and EEE Department scheduled an industrial visit to Legion Insulators Private Ltd. in Bengaluru for January 27, 2023. Designing, producing, and supplying composite (polymer) high-voltage insulators is the company's main objective. This technology is relatively new in the context of the industrial situation that exists in our country today. These are not to be confused with classic ceramic or porcelain insulators or glass insulators. Our students had practical experience in the construction and management of various insulators used in transmission and distribution. Based on performance, they can select the ideal insulator for a certain application. In total, seventy persons came to the industry and used it.



Industrial Visiton “Viji Power Transformer Pvt Ltd.”



On January 28, 2023, the IEEE SB and EEE Department arranged an industrial visit to Viji Power Transformer Pvt Ltd. in Bengaluru. With a highly advanced fabrication equipment, Viji Power Transformer manufactures transformers up to the 25MVA/132KV class, serving all major private sectors. The design, construction, and winding technology of distribution transformers, power transformers, dry type transformers, furnace transformers, solar transformers, and all types of special transformers were taught to our students through hands-on experience. 164 Participants in all visited and utilized the industry.

Poster Presentation

ECE Dept & IEEE SB organized an event on “Poster Presentation” on 6th February, 2023 between 02.00 pm to 04.30 pm. Our Judges of the day was Dr.A.Jayachitra, Professor, Department of Electronics and Communications Engineering, SMVEC and Dr.S.Premkumar, Associate Professor, Department of Electronics and Communications Engineering, SMVEC. The Judges started the event with basic introduction about Poster Presentation.



Circuit Debugging



An event on "Circuit Debugging" was arranged by the IEEE SB and the ECE Department on February 10, 2023, from 2:00 pm to 3:30 pm. The Assistant Professors in the Department of Electronics and Communications Engineering at SMVEC are Mr. Kambingam, Mrs. Vasumathi, and Mrs. Augastiny. They give the first exam to fifty-seven pupils. Fourteen of the fifty-seven students were selected for the final round. On February 11, 2023, the final round was held, and three students were selected as the winners.