

SN	Contents	Page No.
1	About EEE Department	2
2	Department Events	2
3	R&D Activities	3
4	Students' Achievements	4
5	Faculty Achievements	4
6	Co-curricular & Extracurricular Activities	5

ELECTRICAL AND ELECTRONICS ENGINEERING VISION

To become a front-runner in bringing out globally competent electrical and electronics engineers, innovators, researchers, and entrepreneurs and thereby contribute value to the knowledge-based economy and society.

MISSION

- ☐ To offer good quality Under-Graduate, Post-Graduate and Doctoral programmes in electrical and electronics engineering.
- ☐ To provide state-of-the-art resources that contribute to achieve excellence in teaching-learning, research and development activities.
- ☐ To bridge the gap between industry and academia by framing curricula and syllabi based on industrial and societal needs.
- ☐ To provide suitable forums to enhance the creative talents of students and faculty members.
- ☐ To enable students to develop skills to solve complex technological problems of current times and also provide a framework for promoting collaborative and multidisciplinary activities.
- ☐ To inculcate moral and ethical values among the faculty and students.

PROGRAMME EDUCATIONAL OBJECTIVES

The Electrical and Electronics Engineering programme of Sona College of Technology will prepare its graduates to,

- I. apply their knowledge and skills to provide

solutions to electrical and electronics engineering problems in industry and governmental organizations or to enhance student learning in educational institutions.

- II. work as a team with a sense of ethics and professionalism and communicate effectively to manage cross-cultural and multidisciplinary teams.
- III. update their knowledge continuously through lifelong learning that contributes to personal and organizational growth.

PROGRAMME SPECIFIC OUTCOMES

On completion of the B.E. (Electrical and Electronics Engineering) degree the graduates will be able to,

1. Apply the fundamental knowledge of mathematics, science, electrical and electronics engineering to analyse and solve the complex problems in electrical, electronics and allied interdisciplinary areas.
2. Design, develop and implement electrical and electronics and allied interdisciplinary projects to meet the demands of industry and to provide solutions to the current real time problems.

PROGRAMME OUTCOMES

- a) **Engineering knowledge:** Apply knowledge of Mathematics, Science and Engineering to solve the complex problems in Electrical and Electronics Engineering.
- b) **Problem analysis:** Identify, formulate, design, analyze and implement an electrical and electronics system, component, or process to meet desired needs.
- c) **Design / development of solutions:** Design system components that meet economic, environmental, social, political, ethical, health and safety, and sustainability requirements.
- d) **Conduct investigations of complex problems:** Conduct investigations of complex engineering problems including design of experiments, analysis and interpretation of

data, and synthesis of information to provide valid conclusions.

- e) **Modern tool usage:** Construct, select and apply appropriate techniques, resources, and modern simulation tools to solve complex electrical and electronics circuits.
- f) **The engineer and society:** Apply contextual knowledge to assess social, health, safety and cultural issues and endure the consequent responsibilities relevant to professional engineering practice.
- g) **Environment and sustainability:** Utilize core engineering knowledge in a global, economic, environmental, and societal context for sustainable development.
- h) **Ethics:** Solve professional, legal and ethical issues pertaining to core engineering and its related fields.
- i) **Individual and team work:** Function effectively as a team member or a leader to accomplish a common goal in a multi-disciplinary team.
- j) **Communication:** Communicate effectively in both verbal and written forms.
- k) **Project management and finance:** Apply knowledge of engineering and management principles to manage projects effectively in diverse environments as a member or leader of a team.
- l) **Life-long learning:** Engage in independent and lifelong learning for continued professional development.

About EEE Department

Harnessing electrical energy is the challenge for electrical engineers. The power packed EEE department inspires the budding Electrical Engineers with the potent idea of constructing Generating Stations, Transmission Lines and Distribution Systems and supervise the manufacture of Electrical and Electronic equipment used in electrical utilities, automobiles, air-crafts, radar, navigation system and broadcast and communication systems.

This semester we started with a great start of colourful events. This time we had great events. Here we have list of events conducted in our department during this semester.

Department Events



Department of Electrical and Electronics Engineering in association with IEEE and Caliber Incubation cell conducted workshop on Embedded System – RTOS on 22nd – 23rd July 2019. Most of our Department students attended and benefited.



Department of EEE - EDISON students association organised a guest lecture on "Career aspects and opportunities for Electrical Engineers" for III Year students, by Mr.Navaneethan from Live Wire, Salem.



Parents teachers interaction session for third year students was conducted on 27th July 2019.



Arm Processor demonstration session was conducted for lab Technicians at Power Electronics lab by Vi-Microsystems on 16th October 2019.



The MoU established between SONA-EEE & Livewire Salem, agree to cooperate in the area of conducting JAVA course for Third year Students.



MOC Interview for final year EEE students was conducted by alumni on 27th July 2019.

Research and Development Activities



Sona SPEED Research and Development centre in Department of EEE Delivered 5 Nos. of Miniature reaction wheel (MRW) to M/s Indus Teqsite for use in future Student satellite missions.



SonaSPEED team Successfully realised and delivered of 6 Nos. of Earth Sensor BLDC motors to Laboratory for Earth Optics Systems (LEOS), ISRO, Bangalore.



S.Vishnuraj, final year EEE got selected in Jagriti Yatra 2019, a non-governmental organization that promotes entrepreneurship, the Journey is for 15 days in train, in which, a distance of 8000 kilometres is covered. He visited 15 Role Models at different destinations.



Third year students participated in sona student speakers Forum. They spoke on the topics, self-respect, women education in india, importance of voting, Battery of life, save Amazon, Book's Storytelling, solar pumping and time management on 27th September 2019.



Congratulations to Sona SPEED team, Department of EEE, for the successful realization within 18 weeks and delivery of Four 27.5kW Housed Quadruplex Brushless DC Torque motors (VSSC PO: 4077

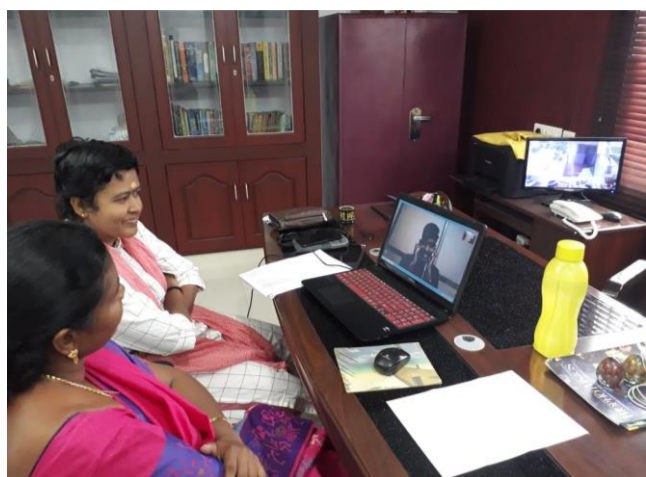
2018E138070101 dated 26th February 2019 to Avionics Entity, Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram on 16th July 2019 after testing and Pre-dispatch clearance by CASG, VSSC, ISRO on 6th July 2019.



The Management and Principal congratulated Dr.S.Chandrasekar, Dean (R&D), Head/SonaPERT (Sona Electric Power Engineering Research and Testing Centre) and his team members for their valuable effort in the successful development of "4 kW Deck Power Converter for Deep Sea Mining Applications", which is a product developed for the National Institute of Ocean Technology, NIOT, Chennai.



Department of EEE and Mechanical Engineering organized a Guest Lecture on the topic "Energy conservation and Management" on 20.08.2019 at PG Auditorium by Mr. K. Anilkumar & Mr. P. Premkumar, M/s Petroleum Conservation Research Association, Ministry of Petroleum & Natural Gas, and Govt. of India.



Dr. K. S. Yamuna of EEE department along with Photonics Salem, conducted a Special video lecture in the theme "circuit Analysis Electrical Machines using MATLAB" for the students of EEE department, Karunya University, Coimbatore on 16th October 2019.



Dr. C. B. Venkataramana and Dr. B. Karthick faculty of EEE department visited Saint Gobain, Perundurai on 27th September 2019 organised by PALS.

CONGRATULATIONS – ISTE

The Chairman, Principal, Directors, HODs and faculty members congratulate Dr.S.Padma, Professor, HoD/EEE for being awarded with "ISTE – Periyar Award for the Best Engineering College Teacher-2019" during the ISTE Tamilnadu section Annual Convention for Engineering College students held on 18th December 2019 at PSG Institute of Technology and Applied Research College, Coimbatore.



ISTE COORDINATOR
(Dr.P.Ilanchezian)

PRINCIPAL
(Dr.S.R.R.Senthil Kumar)

CONGRATULATIONS – ISTE

The Chairman, Principal, Directors, HODs and faculty members congratulate the students team Rangeela.P, Chandrakumar.E, Hariprasadh.S, Dhamotharan.G of final year EEE for winning "ISTE – Manakula Vinayagar Award for Best Student Project for the year 2019" during the ISTE Tamilnadu section Annual Convention for Engineering College students held on 18th December 2019 at PSG Institute of Technology and Applied Research College, Coimbatore.



ISTE COORDINATOR
(Dr.P.Ilanchezian)

PRINCIPAL
(Dr.S.R.R.Senthil Kumar)

Sona College of Technology, Salem
(Autonomous)

PRL/ISTE/2019-20/1001

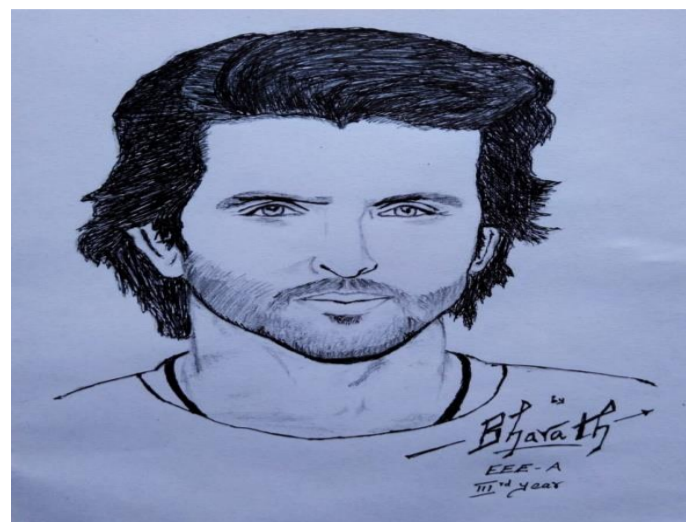
23.12.2019

CONGRATULATIONS – ISTE

The Chairman, Principal, Directors, HODs and faculty members congratulate Dhivakar.P.C., final year - EEE and Neelashkumar.P, final year – CSE for achieving “ISTE – Chapter Best Student Award for the year 2019” during the ISTE Tamilnadu section Annual Convention for Engineering College students held on 18th December 2019 at PSG Institute of Technology and Applied Research College, Coimbatore.



Co-curricular & Extracurricular Activities



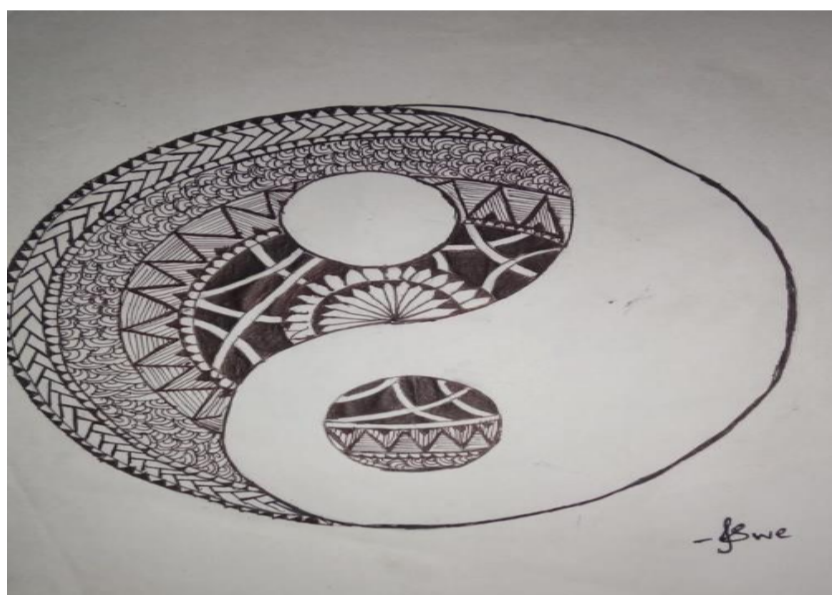
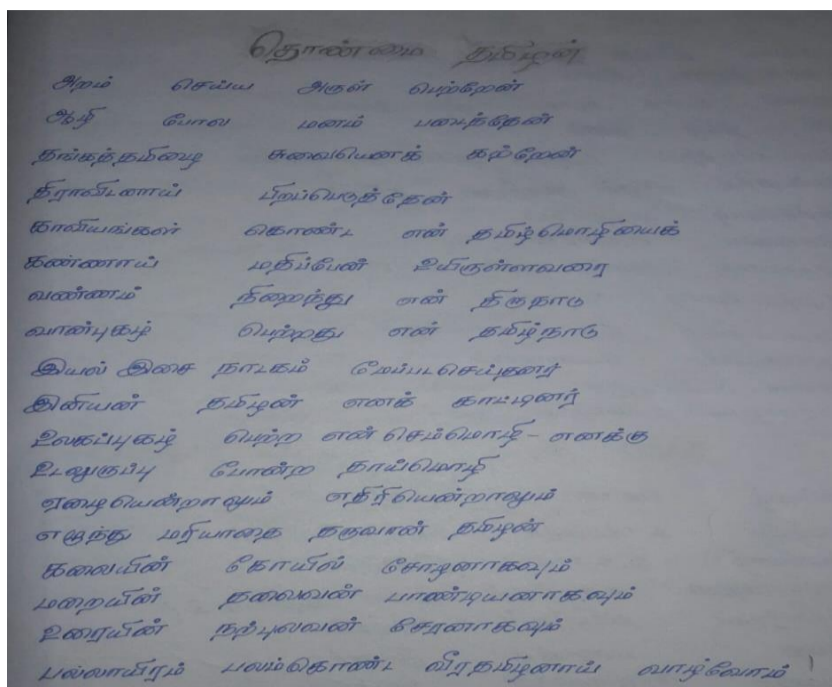
Bharath s, III year EEE A



GATE coaching class commences for III year students on 11.07.2019.



S. Arun Vignesh of II year EEE secured place of Runner in Football(Men) in the Anna university Zonal Tournaments for the year 2019 – 2020 held on 03.10.2019 to 05.10.2019.



J. Swetha , III year EEE 'C'

Editorial Board

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