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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



"Motor Olympics" conducted on 23rd February 2019 at power electronics lab. Students from EEE, ECE and mechanical participated in this event. Each batch may have maximum of three students. Out of

50 batches, I, II and III prizes and three consolation prizes were given.



Department of EEE-EDISON conducted TECHSHOW'19 on 18th March 2019. Students participated with interest and submitted various innovative projects. Best projects were selected for awards.



TECHSHOW'19 on 18th March 2019



TECHSHOW'19 on 18th March 2019



FDTP on Power System Analysis was organized from 13th May 2019 to 18th May 2019 for 6 days. In the Inauguration of the FDTP, Dr. S. Padma, HoD / EEE, Coordinator of the programme welcomed the gathering. Dr. S. R. R. Senthil Kumar, Principal address the gathering and Dr. C. Easwarlal, Professor / EEE gave a key note address and expressed the advantage of FDTP program.



Department of EEE organized Guest lecture on "Career aspects and opportunities for Electrical

Engineers" on 23rd February 2019 for pre final year students.



Sona alumni association conducted "Psychological life skill development training programme" 16th February 2019.

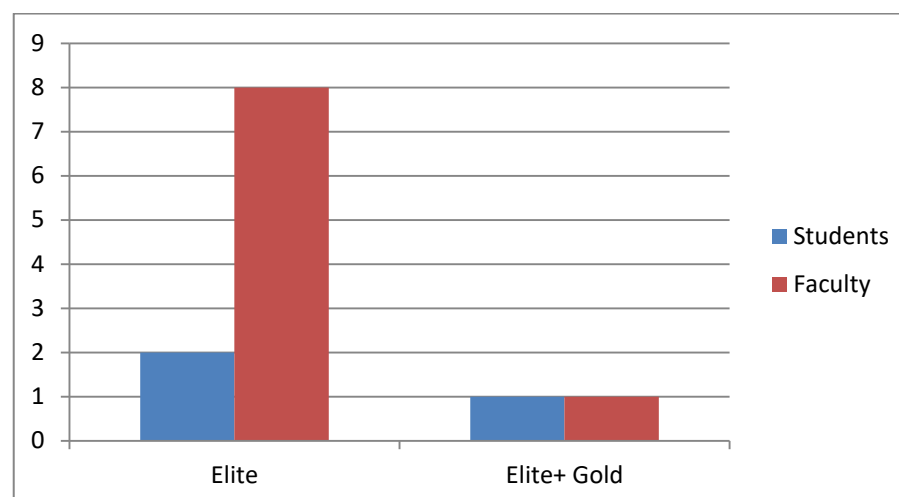


We are proud to honour karthickraja from EEE who stood 14th with a medal out of 928 participants in marathon FERT-RUN 2019.

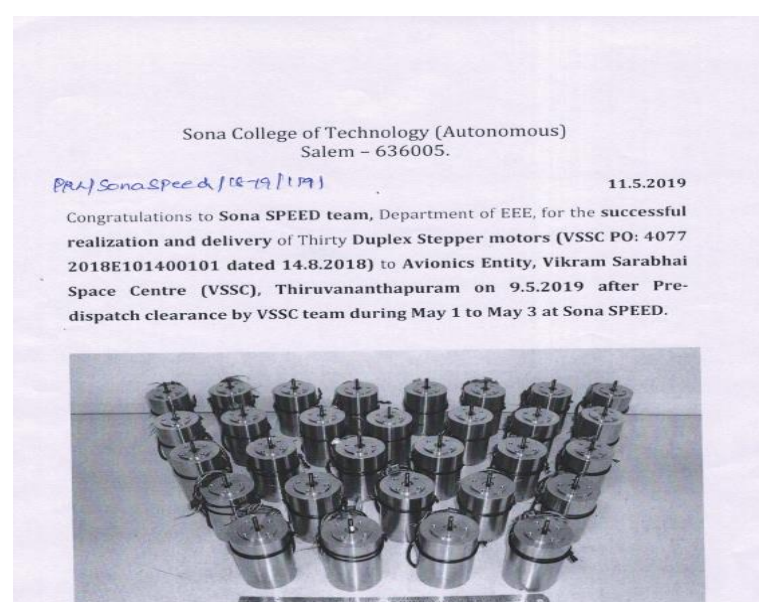


Work shop on "Electrical Vehicles" for +2 students has been conducted on 8th April 2019. The workshop had e-vehicle session, technical and fun events, hands on training for students.

NPTEL – Students & Faculty Achievements



Research and Development Activities

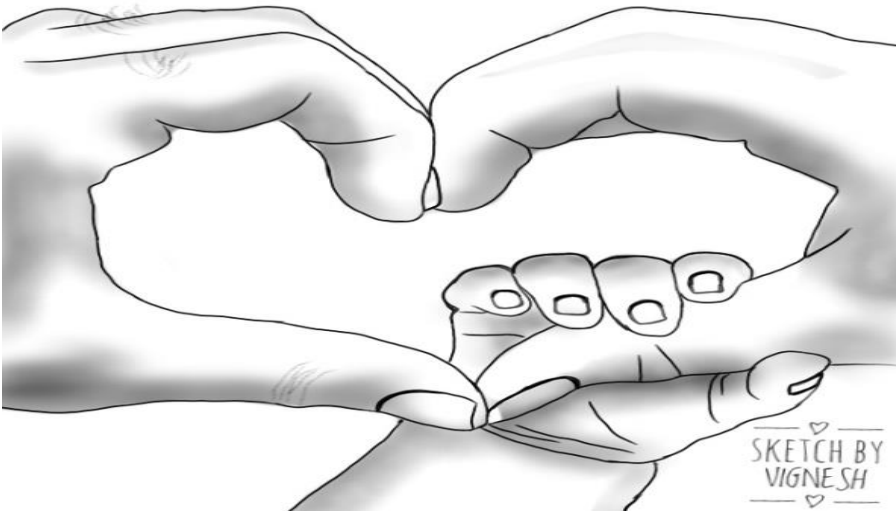


FACULTY ACHIEVEMENTS

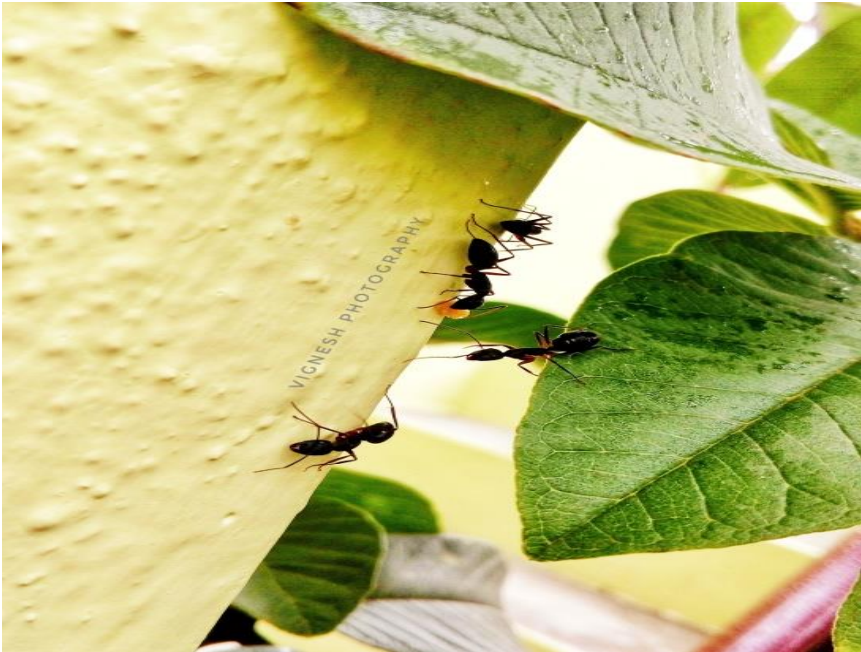
Dr.S.Chandrasekar received a grant of Rs. 47,09,500 under DST/TDT/ AMT for the year 2018 - 2021 for "Design and Development of high performance, Carbon Quantum Dots Covered Nano composite insulated, Eco-Friendly, Compact high voltage vacuum circuit breaker with magnetic actuator mechanism for railways and metro applications".

Dr. R. Arulmozhiyal, Dr. M. Senthil Kumar, Dr. V. Shanmugasundaram, Mr. M. Murali of EEE Department went for Industrial Training on 7th December 2018 to FESTO, Bengaluru.

EXTRACURRICULAR / COCURRICULAR
ACTIVITIES



Sketch by Vignesh A, II year EEE



Photography by Vignesh A, II year EEE

Editorial Board

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3.	Dr. K. Krishnamoorthi, Associate Professor/EEE	Co-coordinators
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