

January -2020

EEE MAGAZINE

Power is knowledge...Knowledge is power.

Vision

“To make the Electrical and Electronics Engineers from SCE to leave their footprints as the best engineers globally and to be the leaders in their chosen field of work”

Mission

“To impart knowledge to the students of Electrical and Electronics Engineering with abilities to excel in their profession and contribute to the growth of the nation and service to society”

Contents

1. Vision Mission
2. Message
3. Faculty Participation
4. Industrial Visit
5. Technical Talk
6. Hands on Training
7. Expert talk Report
8. Vidyuth Spoorthy

Editorial Team:

Associate Professors:

Prof. A.Dhamodharan
Prof. Rekha SN

Assistant Professors:

Prof. Preetha NP
Prof. MahaVishnu KBP
Prof. MahaVishnu KBP

Student:

Ajay S Pai
Dasharath

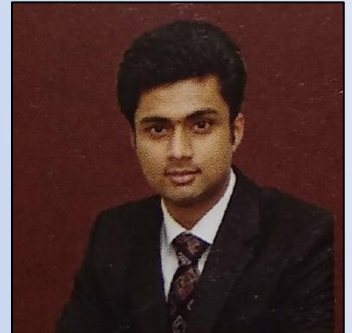
Chairman: Sri G. Dayanand

The "EEE MAGAZINE" is providing great space for the faculty and students to pen down their innovative ideas, imagination and perceptions to show case their creativity. So, I take the opportunity to congratulate the department of EEE and its editorial team to successful release of this issue. I am sure that students and faculty will find the content of this edition very interesting and educating.



Executive Director: Sri G. D Manoj

I am indeed happy to know that the department of EEE has taken initiative in realizing its "EEE MAGAZINE" and urge faculties and students to make use of the platform to share and educate among themselves in publishing article pertaining to the emerging domain and articles of interesting. I congratulate the team of editorial community and department of EEE



Principal's Message- Dr. H Ramakrishna

It gives me immense pleasure to note that, SCE has been publishing bi-annual newsletter and I am sure, this will provide an opportunity for the faculty and students to share their knowledge and beacon the information about various issues and activities that are being taking place in the department. I look forward for more activities and achievements for the department to march towards excellence in the future. I would like to thank all teaching, supporting staff and our beloved students for their active participation in publishing this magazine. My special compliments and congratulation to the editorial team of the department for their consistent effort in publishing this newsletter.



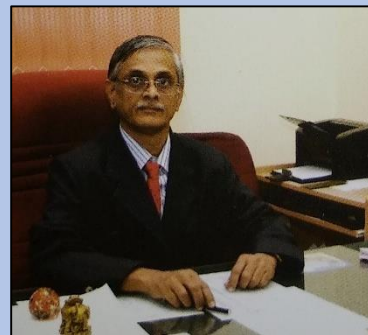
Vice- Principal's Message- Dr M H Annaiah

I am very happy and delighted to know that our college is bringing out the college newsletter. SCE is one of the leading premier engineering colleges in the country offering quality technical education to students thereby enabling them to become globally acceptable engineers in their domains. The newsletter provides a platform for both faculty and students to showcase their achievements and hidden talents. I congratulate our beloved principal and members of editorial board for bringing out this excellent and informative newsletter on time.



HOD'S MESSAGE- Dr.K.N.Ravi

SAPTHAGIRI COLLEGE OF ENGINEERING is releasing its "EEE MAGAZINE". I would like to express my sincere appreciation to Faculty and Editor for their efforts and dedication into a modern and accessible mode of communication with the students' community. It is always a proud moment in the life of the SCE that its departments celebrate such occasions. Apart from providing the quality education, we craving to provide our students a holistic learning experience for life. Academic excellence along with Co-curricular and extra co-curricular activities complete the process of education.



And it gives me great satisfaction that SCE is making progress in all its endeavors towards the overall development of the students. As I look ahead, I can visualize that the college will grow in pursuit of higher standards of teaching, research, and may lead to shape my dreams. It will continue to serve a significant role in higher education and in the service of the country. My blessings and good wishes will always be with the EEE Department. May God give strength to see this department and college flourishing!

FACULTY PARTICIPATION:

- Prof Dr G Raghvendra being a Chair person for International conference on a Smart Computing and Control of Systems (ICSCS) held during 17th -19th October 2019 at Sree Vidyanikethan Engineering College (Autonomous), Tirupathi-517102 Andhra Pradesh, India.
- Prof Dr G Raghvendra has published research paper on "Voltage and Frequency Based Optimal Load Shedding using Improved Self Adaptive Harmony Search Algorithm" and accepted by the board of 'Blue Eyes Intelligence Engineering and Sciences Publication' which has published in 'International Journal of Innovative Technology and Exploring Engineering (IJITEE)', ISSN:2278-3075(Online), Volume-8 Issue-11, September 2019, Page No:475-480.
- Prof Dr G Raghvendra was recognised and appreciated for the review work made during 4th IEEE International Conference Electrical, Electronics, Communication, Computer Technologies Optimization techniques-(ICEECCOT). This event was Organized by GSSS Institute of Engineering and Technology for Women, Mysuru in association with IEEE Bangalore section on 13-12-2019 to 14-12-2019.
- Prof Rekha SN has Presented a paper on "SVM and RVM fault model for wind energy conversion system" in the international conference on "Sustainable Development"(KALASALINGAH GLOBAL CONFERENCE KGC-2019) held at Kalasalingam Academy of Research and Education (Deemed to be University), Krishnakoil, Tamil Nadu, India during December 18-12-2019 to 20-12-2019.

- Prof Rekha SN has Presented a paper on “Protection Model for Wind Energy Conversion System-A Neural Network Approach” in the international conference on “Sustainable Development”(KALASALINGAH GLOBAL CONFERENCE KGC-2019)held at Kalasalingam Academy of Research and Education (Deemed to be University),Krishnakoil,Tamil Nadu,India During December 18-12-2019 to 20-12 2019.
- Prof Rekha SN has Presented a paper on “Fault Detection in Grid Connected Wind Energy Conversion System” in the international conference on “Sustainable Development”(KALASALINGAH GLOBAL CONFERENCE KGC-2019)held at Kalasalingam Academy of Research and Education (Deemed to be University),Krishnakoil,Tamil Nadu,India During December 18-12-2019 to 20-12 2019
- Prof Dr KN Ravi has published Journal on “Transfer of Hydrophobicity of Polymeric Insulators for various pollution services”.This was accepted by the board of ‘Blue Eyes Intelligence Engineering and Sciences Publication’ and has been published in ‘International Journal of Recent Technology and Engineering’.

INDUSTRIAL VISIT:

400/200KV NELAMANGALA RECEIVING STATION:

- Department of Electrical and Electronics Engineering has arranged an Industrial visit for the students of 7thsem to 400/200kV Nelamangala Receiving station. Various equipment used in the transmission system where explained by the engineers of KPTCL in detail. Insulators used in transmission system where explained. All the 58 students of 7th sem ‘B’ section and 2 faculty attended the industrial visit. The students requested to arrange more such industrial visits in future.



Industrial visit 400/200kV Nelamangala Receiving station

VIJI POWER TRANSFORMERS:

Department of Electrical and Electronics arranged an Industrial visit to the students of 5 'B' to VIJI POWER TRANSFORMERS PVT.LTD Mr.Harish explained the students about the process of transformer manufacturing and testing in detail by taking the students to all the sections of the manufacturing unit. The students got in-depth practical knowledge of transformer manufacturing process. All the 56 students of 5 'B' attended the industrial visit and gave positive feedback. The students requested to arrange more such industrial visits.



All the students of 5'B' along with HOD and faculty



At VIJI POWER TRANSFORMERS PVT.LTD

TECHNICAL TALK:

“Introduction of Machine Learning”

- Department of Electrical and Electronics has arranged an technical talk on “Electric Vehicles” to the students of 5th sem ‘A&B’ sections Sumit N Alumni of EEE Dept. The session was very interactive, where he explained the outcome and necessity about Machine Learning and its importance towards the upcoming generations.. Development of research activities in Machine learning was also explained.



Principle addressing the faculty and students prior to technical talk



Mr. Sumit delivering the talk

“FUNDAMENTALS AND TESTING OF INSULATOR AND LIGHTNING ARRESTOR”

- Department of Electrical and Electronics had arranged an technical talk on “fundamentals and testing of insulator and lightning arrestor” to the students of 5th sem ‘A&B’ sections. Dr. U R Sesheagiri Rao Additional Director, CPRI, Bangalore as delivered the expert talk. The session was very interactive, where he explained the different tests carried out on insulator and also explained about lightning arrestors. Development of research activities in High Voltage Engineering was also was also explained.



Principle addressing the faculty and students prior to technical talk



Dr. U R Sesheagiri Rao Additional Director, CPRI, Bangalore, delivering the talk

ELECTRIC VEHICLES

- Department of Electrical and Electronics has arranged an technical talk on “Electric Vehicles” to the students of 5th sem ‘A&B’ sections. Dr.Sanjeev K Nayak, Specialist and Project Manager, L&T, Bangalore as delivered the expert talk. The session was very interactive, where he explained the necessity about electric vehicles and its importance towards the upcoming generations. Different parts used in the manufacturing of electric vehicles where thoroughly explained. Development of research activities in Electric vehicles was also explained.



Principle addressing the faculty and students prior to technical talk



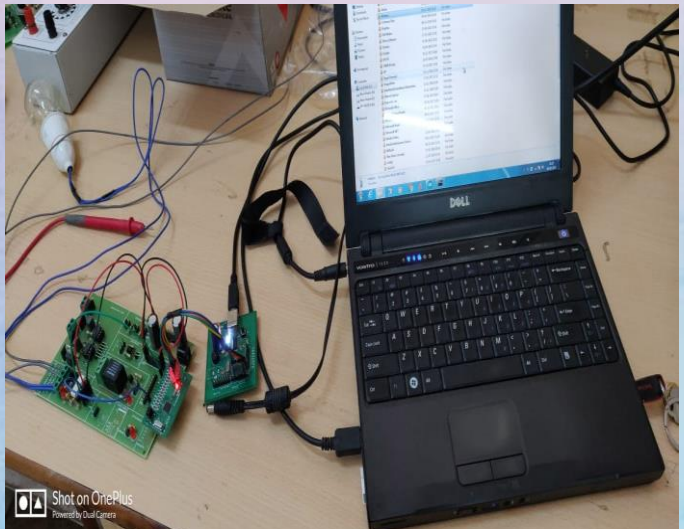
Dr.Sanjeev Nayak ,Project manager L&T,delivering the talk

HANDS ON TRAINING :“EMBEDDED SYSTEMS”

- Department of Electrical and Electronics had arranged an hands on session on “Embedded systems and Power Electronics” to the students of 7th sem ‘A&B’ sections. Mr.Rakshit, Proprietor, M/s Ti2 technology, Bengaluru and Alumni of Sapthagiri college of Engineering, Gave a thorough training to the students on embedded systems and power electronics .This will help the students to carry out projects using Embedded Systems and Power Electronics.



Students during hands on session



Equipments used for training

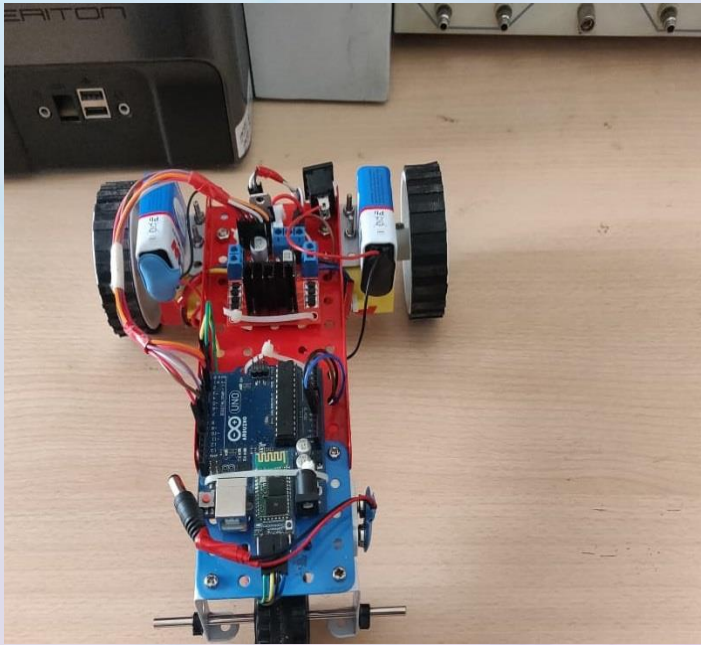
VIDYUTH SPOORTHY

- Students of 3rd and 5th sem students have carried out mini project as co-curriculum activity. Total no of projects by 3rd sem students are 24 and total no of projects by 5th sem students are 25.

The following are the projects which have won the prizes

- 1.Ultra Sonic Radar
- 2.Smart Home Automation using Node MCU
- 3.Voltage Detector
- 4Automatic Street Lights

The Mini projects were exhibited on 15-11-2019. Mr Sanjay Nayak Project Manager Land T was the judge for evaluating the mini project.



Mini Projects



Judges at mini Projects

EEE Girls Student have become the winners of sports event for the year 2019-2020



Trophy at Sports Day