



# SAPTHAGIRI COLLEGE OF ENGINEERING

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

February-2018

Vol-II Issue-1

# EEE MAGAZINE

Power is Knowledge...Knowledge is Power.

### VISION

➤ To make electrical and electronics engineering from SCE to leave their footprints as best engineer 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 nation and service to the society

### Statement Of PEO's

Graduate Engineers will be able to:

PEO 1: Apply scientific, Mathematics and Engineering fundamentals gained to comprehend, analyse, design and create products and solutions for real life problems

PEO2: Contribute to industrial services and government organisations by applying their skills gained through formal education.

PEO3: Work on emerging technologies with professional communities, higher education ever developing careers to strengthen human values and social responsibilities to contribute towards society.

PEO4: Adopt professional and ethical attitude for effectively resolving societal problems through multidisciplinary approach

### Editorial Team:

Associate Professor: Prof. Rekha SN

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### Contents

1. Vision Mission
2. Message
3. Faculty Participation
4. Invited Lectures
5. Students' Participation
6. Workshops
7. Technical Talk
8. Seminar
9. Guest Lecture
10. Students' Placement
11. Students' Article

## PRINCIPAL MESSAGE

It is a matter of great pride and satisfaction for SATHAGIRI COLLEGE OF ENGINEERING to bring out 2016-17 News Letter “EEE MAGAZINES” released from the Department of Electrical and Electronics. The College has made tremendous progress in all areas- academic, non-academics, capacity building relevant to staff and students. The ways we teach and the ways our students learn are unique and creative.



Consistently, we took into our deficiencies and transform us to an efficient builder of social change. Many would confirm that the College has substantially contributed to the process of National Development by providing quality education and thereby enabling the students to become globally competent engineers. Education is not an act of process of growth. We have excelled in every initiative that we undertook and we have stood together in facing the challenges in realizing quality education. I congratulate the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in Record time. I express my deep sense of gratitude to Dr.K N Ravi, HOD/EEE under whose guidance this Technical work has been undertaken and completed within the stipulated time. Also my heartfelt Congratulations to staff members and Students for their fruitful effort. With Best Wishes.

## HOD'S MESSAGE

It gives me great pleasure to congratulate students, teachers and staff of electrical and electronics department for the publication of newsletter “EEE MAGAZINE”. Newsletter is believed to be a focus of the inside activities i.e. academics, students’ and faculty’s achievement as well as innovation occurring in the department. In the era of engineering and technology this newsletter will motivate the teachers and students of sharing their creativity



and new ideas with the world and will help in their overall development. I am Pretty Sure That reading of this News Letter would be a pleasant one as it would serve as a verdant landscape of scientific, technical and article outpourings that support student and faculty for widening their research and knowledge for their expansion.



## FACULTY PARTICIPATION

Mr. S. Krishna Prasath, Asst Prof. has attended 6 day workshop on “**Multi-Paradigm computation**” held on 31<sup>st</sup> July to 5<sup>th</sup> August 2017 at SJBIT college, Bangalore.

Mrs. Rekha S N, Mrs. Jhansi K, Mrs. Ashwini C & Mrs. Nandini D B has attended three day workshop on “**Digital Signal Processing Lab**” held on 29<sup>th</sup> Jan to 31<sup>st</sup> Jan 2018 in Acharya institute of technology, Bangalore.

## INVITED LECTURES

Dr. K.N Ravi, Prof. & HOD, dept. of EEE has delivered at a technical talk on “**Philosophy of HV testing**” and “Generation measurements of HVs” on 29<sup>th</sup> August 2017 at PSTI, Bangalore.

Dr. K.N Ravi, Prof. & HOD, dept. of EEE has delivered at a technical talk on “**Optimization of string insulator**” on 17<sup>th</sup> Jan 2018 at Dr. AIT, Bangalore.

## STUDENTS PARTICIPATION

- 1 Sonu Sagar K, Shiva Mani M students of Department of Electrical and Electronics Engineering has undergone Industrial Internship Training from 6<sup>th</sup> – 31<sup>st</sup> January 2018 at Kirloskar Electric Company Ltd, Bangalore.
2. The following students of EEE department carried out Internship training at Bharath Heavy Electricals Ltd, Bangalore from 05<sup>th</sup> - 31<sup>st</sup> January 2018.
  - a. Pawan Kumar D
  - b. Sandesh V
  - c. Sumanth S
  - d. Ravi Prakash K H
  - e. Mr. Srikant Kadgi

## WORKSHOP:

Department of EEE has organized Two days' workshop on “**Digital signal Processing laboratory**” By Prof. Agalya P & Prof. Shobha from Department of Electronics and Communication, Sapthagiri college of Engineering on 22<sup>nd</sup> and 23<sup>rd</sup> January 2018 at Power System Simulation Laboratory.



Workshop on Digital Signal Processing lab

## WORKSHOP

One day workshop was organized by EEE department in association with IEI student chapter of EEE on 30th October 2017 on the topic “Recent trends in power system” . The resource person was EEE Alumni Mr. Nitish Kumar from PRDC. The workshop started with an inaugural session and was inaugurated by the Principal, Sapthagiri college of Engineering Bangalore.

The main objective of the Workshop was to familiarize participants with the emerging ideas and trends on power system. Mr. Nitish Kumar enlightened the students about the importance of studying the UG subjects thoroughly. Mr. Nitesh gave a in depth idea of using MI power for solving problems in power systems like fault studies on IEEE bus and transient analysis studies. And also mentioned about the utilization of campus facility and its impact in future.

The entire program was coordinated with the support of the Principal, HOD EEE and faculty members of EEE department. Around 118 students attended the above said program. Dr.N.Srinivasan, Director, Sapthagiri college of Engineering has appreciated the resource person for his valuable guidance to students as an alumni of EEE. The program was concluded with the vote of thanks by Mr. Pavan kumar of final year EEE student.



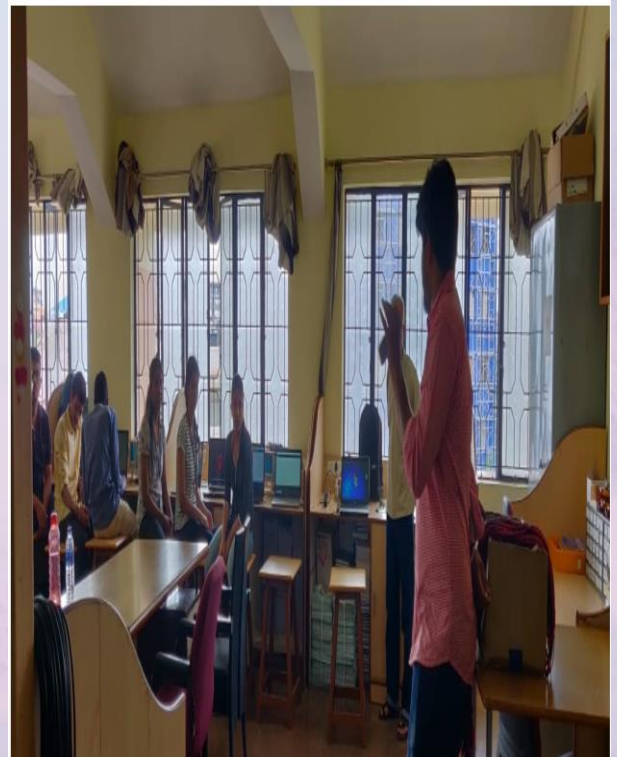
**Mr.Nitish Kumar – main speaker addressing the students**

## WORKSHOP ON SIMPLE CONTROL DRIVE OF MOTORS

The department of EEE has organized two days workshop on 26/10/2017 to 27/10/2017 on the topic simple control drives of motors for enrich the knowledge of students. The resource persons were Mr. C.S. Ravi Prasad, Ex. general manager, Kirloskar Electricals and Mr. Rakshith Ti2 Technology Bangalore. The program was inaugurated by the HOD of EEE department.



The main objective of the workshop was to enhance the knowledge of students in design of different control circuits. The students were gained the idea and knowledge of building up the circuits from the training. At the end of the workshop students were able to design simple circuits themselves. The participation in the workshop enriched their knowledge and skill in drives. During the workshop, the students got hands-on training in AURDINO. The program was concluded with students demo of the given assignment on the second day. A special appreciation has been given by resource person about the students' participation.



Mr. C.S. Ravi Prasad -main speaker    Mr.Rakshith -hands on training

## **TECHNICAL TALK ON SPECIAL ELECTRIC MACHINES**

As a part of enrich the student's knowledge in the core field, the department of EEE has organized a technical talk on special electrical machines by Dr. Muralidhara, Principal, Jain college of Engineering, on 30th September 2017 Bangalore. The program was inaugurated by Dr.K.N.Ravi ,HOD ,EEE Dept. SCE. In the inaugural speech Dr.K.N.Ravi has gave an importance about the talk.

Dr. Muralidhara has explained in-depth idea about the synchronous reluctance motor, stepper motor, switched reluctance motor. He explained the application of each machine. And also explain the scope for doing research in the area of special machines.

The students were empowered with knowledge of special machines. The students were expressed their gratitude to the expert through the feedback. The program was concluded with vote of thanks by Mrs. Ashwini A V assistant professor of EEE department.





## One day seminar on “ENGINEERING ETHICS & HUMAN RIGHTS”

A Guest Lecture on “Engineering Ethics & Human Rights” was organized by EEE department for empowering the students on the specific area. The resource person was Mr. Anantharaju, Advocate. The program was inaugurated by Principal SCE on 16/09/2017. In the inaugural speech principal gave a small introduction about the human rights. Human rights violations play an important role as determinants of, or structural barriers to, health. Research, investigation, and documentation focused on human rights have led to the development of rights-based interventions and the promotion of human rights. The basic rights of engineers include the right to live freely and pursue their legitimate interests as any human being, along with the right to be against racial or sexual discrimination, receiving one's salary according to the work, choosing of political activities, etc., as other employees.

While delivering lecture Mr. Anantharaju gave an in-depth idea in the area of Engineering Ethics and Human Rights, Which helps the students as well as faculty in future. The knowledge acquired from this lecture will be helpful for betterment of the society. The students got the knowledge enrich in this area. The program was concluded with the vote of thanks by Mrs. Jhansi K, Assistant Professor of Department of EEE.



Mr. Anantharaju .Addressing the students

## GUEST LECTURE

As part of the empowering the students' knowledge, the department of EEE in association with IEI student chapter of EEE organized a guest lecture by Dr. Shivakumar Aradhya R S, Retired Director of CPRI ,on 10/01/2018 Bangalore. He spoke on the fundamentals of surge arresters, the equipments which protect all the other equipment of the substation. He also explain about advantage and disadvantages of various types of arresters and emphasize the need of Metal Oxide Surge Arrester(MOSA) for better performance. Metal Oxide Surge Arrester not only takes high energy during the discharge but it does not have power follow current. He also informed that metal oxide surge arrester will be the present and future arrester material. He dealt in detailed various stresses that come in the usage of MOSA blocks. Further various methods of diagnosing arresters were discussed.

He advised the students to learn relevant theory before conducting an experiment in the lab, so that he/she can appreciate the need for doing each experiment. He also advised the students to ask and know from the faculty, the relevance of doing each experiment in the lab related to High voltage. During the lecture, Dr. Aradhya displayed the quotes of several renowned scientists such as Einstein, to bring out the importance of gaining practical knowledge along with theoretical knowledge.

The program was very much helpful for the students who came to know the details of protection and the latest trend in power system protection. The specified program concluded with the vote of thanks by Dr.K N Ravi Head of EEE.

## STUDENTS' PLACEMENT

Name of student placed	Enrollment number	Name of the employer	Appointment letter reference No. with date.
VIPIN RAJ	1SG13EE062	ACE MICROMATIC MANUFACTURING INTELLING TECHNOLOGIES PVT LTD	09/09/2017
AMAN KUMAR	1SG14EE005	NTT DATA	07/11 /2017
SUMATHI G	1SG14EE076	NTT DATA	07/11 /2017
ARPITHA M J	1SG14EE017	NTT DATA	07/11 /2017



# STUDENTS' ARTICLE

## A TRIBUTE TO ABDUL KALAM

Very brief recollection of his life: Born on 15 October 1931 in Rameswaram & studied in an ordinary school & college at Rameswaram & Trichy in Physics & aerospace engg. & then at Madras Institute of Technology .Scientist in ADE/DRDO, Bangalore upto 1969 ISRO joined in 1969 . visionaries like Vikram Sarabhai & Prof. Sathish Dhavan recognised immense potential & selfless & sincere dedication to work of Kalam very early in his career& made him Project Director Of SLV-3. He put 1st Indian Rohini Satellite into orbit from Sreeharikota in July 1980.He developed several missiles in DRDO such as Akash,Nag,Trishul,Prithvi,Agni & Brahmos He did India's 2nd POKHRAN nuclear explosion He developed a cheap coronary stent in 2012 along with a doctor Raju.He was awarded "BHARAT RATNA" & he was a real RATHNA of BHARATHHe was 11th President of India between 2002 to 2007He has authored several books such as wings of fire,Ignited minds,vision 2020 etc..After cotributing whatever he could contribute with his scientific & technological capabilities , He was a teacher & a Professor , the noble profession for which he had highest regard . He went about trying to reform India as a pious man , a teacher & a great human being.He was a god send human being for India. His work is very much comparable to Mahathma gandhi or Abraham Lincon but in scientific & technical fieldsHis life proved what any good human being with enthusiasm,zeal,sincerity,clear virtues & good family culture can achieve any mission he wants to achieve.His life abundantly proved that a person's language, caste,creed,religion,colour,status are irrelevant so far as one goal of doing good things to society is concerned. very rightly He had immense faith in the children and youth power of our country & he could visualise their capabilities . So he concentrated in igniting these minds & immensely tried to inspire them.He visualised solutions to our country's dogging issues & making our country a Developed country by our youth & children. He was an ordinary Human being with no big qualification no hi fi educational background of simple living but from a very very good cultured simple family from a remotest corner of our country.He was a simplest of a person but " highest thinking".

Name Of The Student:Sumathi G

USN:1SG14EE076

Department of EEE