



SAPTHAGIRI COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

August-2017

Vol-I Issue -2

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:

PEO1: 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

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PRINCIPAL MESSAGE

It is a matter of great pride and satisfaction for Sapthagiri 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 MAGAZINES”.

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.

One day seminar on “HUMAN RIGHTS”

One day seminar was conducted in EEE department in association with IEI student chapter of EEE on 20th March on the topics Human Rights by Mr. Anantharaju . The seminar was inaugurated by Principal Sapthagiri college of Engineering. During the talk Mr. Anantharaju explain the various right like fundamental rights, RTI, consumer rights and other privileges one should know so that they will be able to climb their deserves. As an advocate he also explained about fundamental illegal rights that one should know. Mr. Anantharaju gave examples of various rights from advocate point of view.

The students were benefited by his talk on Human Rights. The resource person were appreciating the students for their interaction. The seminar was concluded with the vote of thanks by Mr. Keerthan Reddy of final year EEE student.

One day Technical Talk on “High Voltage Testing of Cable”

As a part of empowering the students' knowledge, the department of EEE has arranged a technical talk on “High voltage Testing of Cable” by Mr. H. Ramprasath , joint director , CPRI. The program was inaugurated by Principal SCE. While addressing the gathering the resource person has given in-depth idea of testing of cable. The power cable is an important component which links various apparatus in the system. Initially the power cables were with paper insulation, called as paper insulated lead covered cable (PILC). The only advantages over the PILC cables were that these cables do not absorb water. But due to high dielectric loss angle of these cables, a better insulation called as XLPE, Cross-linked Poly-ethylene cables came into the system and these cables has a number of advantages over the previous types of cable insulation. Hence these XLPE cables are being used right from 220V to 500kV throughout the world. The cables are subjected to various tests like in-process quality check while the cables are being in the manufacturing stage to make sure there is no gross defect. To make sure the cable can withstand all the stresses in the system like electrical stress, mechanical stress, thermal stress and environmental stress they are subjected various tests named as type tests. These tests will give justification that the cables design is good and can withstand the worst situation in the system. These are the main highlights with respect to technical aspects. The resource person enlightened the gathering by his knowledge.



Mr.H. Ramprasath -Main speaker with EEE HOD ,Validatory function

Technical Quiz And Circuit Debugging Competition

Department of Electrical and Electronics had arranged an quiz competition on “Technical Quiz Competition & Circuit debugging” on 25/03/2017 at 03.00PM #406 (Academic Block), Sapthagiri College of Engineering , for the students of Electrical and Electronics Engineering, this event was conducted to enhance the knowledge of students and to make their basics stronger, which would help students to prepare for GATE and other competitive exams. The quiz competition was held in online mode and about 150 students actively participated .The toppers of quiz where appreciated with appreciation certificate and other participants where given participation certification.

STUDENTS' PLACEMENT

Name of student placed	Enrollme nt number	Name of the employer	Appointment letter reference No. with date.
HEMANTH KUMAR	1SG13EE023	CRANES SOFTWARE	17/05/2017
SATHYAM	1SG13EE050	CRANES SOFTWARE	17/05/2017
ABHIMANYU KUMAR	1SG13EE003	Advent Power Technology	14/02/2017

SHANTAPPA UTAGI	1SG14EE409	Advent Power Technology	14/02/2017
KANTHRAJ L V	1SG14EE405	Advent Power Technology	14/02/2017
PRABHATH G	1SG13EE021	TARUN TECHNOLOGIES	08/03/2017

STUDENT'S PARTICIPATION:

USN	NAME	EVENTS	COLLEGE NAME	YEAR
ISG13EE027	KEERTHAN REDDY	NCATEE-17	SJBIT	10TH MAY 2017
ISG16EE403	AJAY BAVA	NATIONAL LEVEL COMPETITIO N ON NEW IDEAS IN POWER AND ENERGY SECTOR	GSSS MYSORE	5TH MAY 2017
1SG13EE005	AKSHAY PL	PHASE SHIFT 2017	BMSE	15TH MAY 2017

LIST OF TOPPERS

I – Year

Sl.No.	Name	USN	Percentage
1	NEHA TOMAR	1SG16EE058	85.24
2	PAVITHRA R	1SG16EE066	84.11
3	A R GOUTAM	1SG16EE001	83.04

II - Year

Sl.No.	Name	USN	Percentage
1	SHANU	1SG15EE082	72.87
2	MANOHARA S	1SG15EE049	71.73
3	VINUTHA D	1SG15EE096	70.78

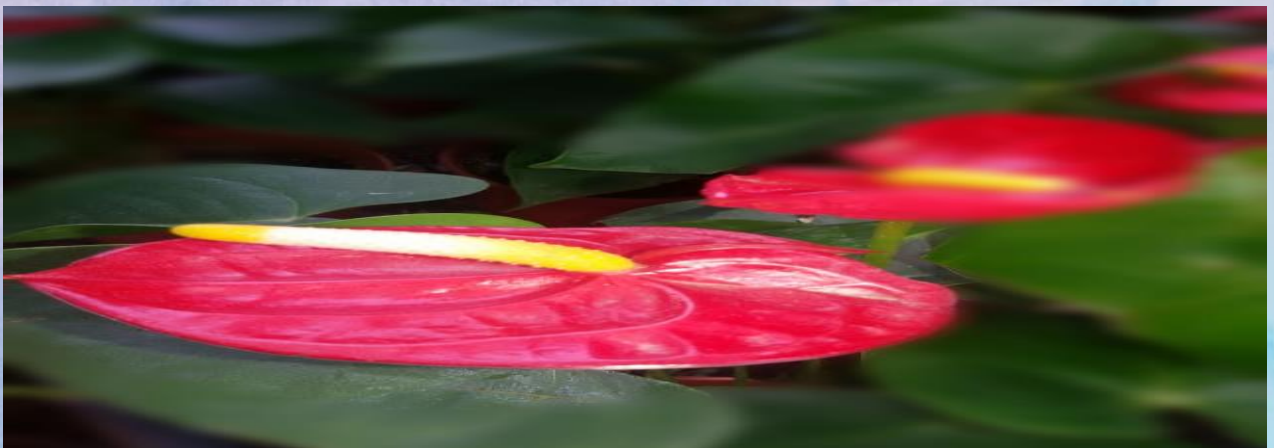
III - Year

Sl.No.	Name	USN	Percentage
1	PRAGATHI S	1SG14EE059	81.22
2	PAVAN KUMAR H D	1SG14EE055	81.17
3	PALLAVI S	1SG14EE053	81.00

IV - Year

Sl.No.	Name	USN	Percentage
1	MEGHANA K L	1SG13EE032	82.84
2	NARAYAN JEE	1SG13EE035	77.86
3	VAISHNAVI S KULKARNI	1SG13EE061	75.76

STUDENT PHOTOGRAPHY: By PAVITHRA R 2nd SEM



BY RAMKUMAR VI- SEM



**RAMKUMAR
VI - Sem B-Sec
EEE**

STUDENTS' ARTICLE

SPINACH LEAF TRANSFORMED INTO BEATING HUMAN HEART





Using the plant like scaffolding, scientists built a mini version of a working heart which may one day aid in tissue regeneration.

Scientists have found a way to use spinach to build working human heart muscle, potentially solving a long standing problem in efforts to repair damaged organ. It offers a new way to grow a vascular system.

“The main limiting factor for tissue engineering ...is the lack of a vascular network.” One of the defining trait of a leaf is the branching network of the thin veins that delivers water and nutrients to its cells. Now, scientists have used plant veins to replicate the way blood moves through human tissues. The work involves modifying a spinach leaf in the lab to remove its plant cells, which leaves behind a frame made of cellulose.

“Cellulose is biocompatible and has been used in a wide variety of generative medicine applications, such as cartilage tissue engineering, bone tissue engineering and wound healing.”

Once the human cells grew on the spinach scaffoldings and surrounded the tiny veins .Once the transformed the spinach leaf into a sort of mini heart, fluids and microbeads through its veins to show that blood cells can flow through this system.

The eventual goal is to be able to replace damaged tissues in patients who have had heart attacks or who suffered other cardiac issues that prevent their hearts from contracting. Like blood vessels , the veins in the modified leaves would deliver oxygen to the entire swath of replacement tissues, which is crucial in generating a new heart matter.

NAME OF STUDENT:KEERTHAN REDDY

USN:1SG13EE027

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