



THE IMPETUS

FOR A CHANGE..



Editorial

The editor is ultimately responsible for all decisions concerning the content of the magazine. In selecting content, the editor works in consultation with the staff and with other members of the College community with several factors in mind, including:

A commitment to offer readers a mix of newsworthy, engaging, and thought-provoking articles about the College and its people;

A respect and concern for the institution's history, mission, values and open discourse;

A commitment to provide balanced and timely coverage of issues, diversity of interest, opinion and representation.

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Claude Elwood Shannon (April 30, 1916 – February 24, 2001) was an American mathematician, electronic engineer, and cryptographer known as "the father of information theory".

"I visualize a time when we will be to robots what dogs are to humans, and I'm rooting for the machines."



Graphene Sensors

Let's take a selfie!!! But wait, my camera quality is not all that great! With the increase in clarity, the price of the camera also increases. We finally have a solution to this problem. A year ago, a team of scientists at Nanyang Technological University (NTU) in Malaysia has developed a new image sensor from Graphene .It is 1,000 times more sensitive to light than existing CMOS or CCD due to the presence of trapped electrons. It operates at very small voltage and also uses 10 times less energy. The new sensor is able to detect broad spectrum light from the visible to mid-infrared with great sensitivity making it ideal to use in all types of cameras, including traffic safety cameras, satellite imaging and more. This technology will allow photographers to take much clearer images in harsh lighting conditions and when mass produced, estimates are that graphene sensors will be up to five times cheaper than camera sensors today.



Akash (ECE I year)

Wi-Fi Vs Li-Fi

We all use Wi-Fi and Bluetooth . But these wireless technologies have a fatal flaw: they use radio waves to communicate. The problem with radio waves is that, they transmit data slowly, and the signal is easily disturbed. However, a team of scientists have developed an extremely fast method of wireless communication which uses light from LED bulbs. It sends light shooting out to connect to your smart phone, laptop, or other devices. You wouldn't even notice, but your LED lights would flicker at high speed, sending data all around your house. Li-Fi is much more secure than Wi-Fi. Li-Fi can only work when your device can detect the light being emitted by the Li-Fi router. This means people passing by cannot connect and piggyback off of your Internet connection and it's unaffected by RF-emitting equipment operating in the same room, such as a microwave or radio and therefore it can be used in high security military areas



Jerusha Lawrence (ECE I year)

CHOICES - How important are they?

We are often told that the choices we make are of great deal, so make them wisely. This very thought makes us get confused. What if we make the wrong choice? What are its consequences? Now, I have a question for you, "This choice we make, how much can it actually influence us?" Life is filled with choices starting from the dress we want to the career we opt for, no doubt we need to choose them wisely. There is a common feeling which all of us have, that we need to have our options open. We need many choices, but again do you think having many options is actually helpful? While making choices we need to keep two things in mind 1. Narrow down choices and 2.always wish for having less choices and not more for having more leads to confusion. Life has its own ups and downs, and a large part of it depends on the road we take. One needs to keep in mind the pros and cons but being too conscious on the same may not be of much help, if anything it only leads to problems. Mistakes are an important part of choosing. Only by making mistakes we make more room for improvements. So yes! Make mistakes! Trust me, they actually help! Finally, once you've made your choice, don't think otherwise or look back at what you have chosen. Life is precious, make mistakes and learn, but mostly don't forget to enjoy it to the fullest!

R.Akshaya -(ECE II year)

I am extremely happy to note that the Electronics & Communication Department of our college is coming out with a Newsletter. Congratulations to the department and to the students for this wonderful idea. I understand that a lot of care has gone in preparing the Newsletter. In my opinion the idea is great and the Newsletter can serve the purpose of informing the activities of the department to all concerned. More than anything else, this gives a wonderful opportunity to bring out the creative talents that is found in abundance with the students of this meritorious department.

Collecting the material for publishing, designing the format, releasing the Newsletter on time etc. will help the students to acquire administrative skills. I am aware of the enthusiasm with which the students work and I am sure their effort is bound to bring more laurels to the department.

I wish them all the very best.

Dr. V. Subbaroyan

Professor, ECE Department



Semantics Inauguration

Semantics, an innovative club, was started with an initiative taken by the final year students of ECE department with the support of Mr. Amos H Jeeva Oli (HOD, ECE) to improve the communication skills and public speaking skills of students. The club was inaugurated by Mr. Sadha Shivam (Assistant Professor, ECE). The ceremony started with the welcome speech given by Hafeez (Final year ECE) and it continued with a presentation given by the trainers about the activities to be conducted by the club in the upcoming months. Following this was an activity conducted by the trainers to help students on how to present papers on latest technologies. It ended with the vote of thanks given by Brindha (Final year ECE).



Report

Workshop:

Network Simulator 2, from 12th Jan 2015 to 13th Jan 2015 for the second and third year students at the research lab (S08). The sessions were handled by Mr. Vairaban, Pantech ProLabs/ Pantech Solutions, Chennai

Android based Mobile Application Development, on 30th Jan 2015 for the second and third year ECE students at the EEE Seminar Hall. The workshop and the sessions were handled by Mr. Prasanna, Android Application Developer, Freelancer, Chennai

Industrial Visit:

Third year students visited Doordarshan on 1.2.15 (ECE-6A) and 2.2.15 (ECE-6B).

Guest Lecture:

A guest lecture by Mr. Siva Prakash, Insystronics, on Model Based Computing was held for the final year students of A section.

Honour Board

B. Balaji, T. Anbumani, V. Aravinth, A. Arun J. Venkateshwaran (II yr), 1st prize, Robo Tryst 2k14

Paper Presentation

Yaasmin Begum (III yr), 3rd prize, Prathyusha College of Technology.

Yaasmin Begum & Vasanthakshmi (III yr), 1st prize, DR.MGR Janaki College.

Mayuri.S & Kavyashre.G (III yr), 1st prize, IETE.

Aravind Yogesh (III yr), 1st prize, Jeppiar Engineering College.

Sneha.J & Sreeje.S.A (III yr), 1st prize, Agni College of Technology, St.Peter's University.





From top, clockwise

- 1) Mr. Siva Prakash, Insytronics
Guest Lecture-Model Based Computing
- 2) Mr. Prasanna, Android Application
Developer conducting workshop on
Android
- 3) NS 2 Workshop conducted by
Mr. Vairaban from
Pantech ProLabs/Pantech

12th Feb 2015
National Conference on
Recent Trends in CEEE
SSN College of
Engineering
FemFest 2015
Sathyabama University
Grafya2k15, InnovaEce2k
5 SMK Fomra Institute of
Technology, Chennai.

16th Feb -ICHCI RPF 2015
Womens Christian College
18th Instrublitz 2015 Easwar
Engineering College
20th EXPRO 2015
Madras Institute of
Technology Anna University
23rd VISAI 2015 Vel Tech Dr
RR and Dr SR Technical
University,
Chennai

25th Feb - Promising
Research & Innovations in
Mechanical Engineering
Jeppiaar Institute of
Technology
26th Feb 2015 NIRAL 2015
College of Engineering
Guindy Anna University,
Chennai

27th Feb Vel TechFest2015
Vel Tech Dr RR and Dr SR
Technical University
Flight 15
Madras Institute of
Technology
STEER 2015
SSN College of Engineering,
Chennai

28th Feb 2015
Xploats 2k15
Colosium 2k15
Valliammai Engineering
College, Chennai

Watch this space every
month to know about
the upcoming events

Dr. Amos H. Jeeva Oli
HOD, ECE

Mr. T. Thomas Leonid
Asst.Prof., ECE

Ms. Aida Jones
Asst. Prof., ECE

Mohan Natraj P.
ECE 3rdYr

Sneha J.
ECE 3rdYr

Mohtasheem A.
ECE 3rdYr

SreeRaag
ECE 3rdYr

Sreeje S.A.
ECE 3rdYr

Logeshwaran S.
ECE 3rdYr

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