

*D*ear comrades,

Welcome you all to the *Volume 3 Issue No. 2 of the EEE newsletter*. “*When you are finished changing, you are finished*” says Benjamin Franklin. Yes, we all keep changing with the change in time. Our newsletter is also not an exceptional case to it. Hope you all enjoyed the change that was made in the last issue of this volume.

A well furnished professional is a one who is versed in both soft skills and hard skills. But most of us are not so skilled in the soft skill which we are in need of training. So from this issue we are adding a column named “Flourish your soft skills”. I hope that the readers would be versed in the soft skill at the end of this volume.

An Engineer is not only a professional with knowledge and a techie but also a strong personality with a robust mind. “Don’t pray for an easy life. Pray for the strength to endure a difficult one” says a quote. We must take into the mind that life is not so easy, but we have to ease it. I anticipate all the readers to take this and get benefitted.

Thank you for all those who are co operative with us for the nourishment and flourishment of the news letter.

I appreciate you taking time to read our newsletter. Please feel free to bring any comments, suggestions or any articles to our attention for future editions.

Best regards and easy reading.....

Uma Maheswaran. R

Final Year - (Reporter - EEE Newsletter)

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STAFF ACTIVITIES/PUBLICATIONS/ACHIEVEMENTS**ACTIVITIES:**

S.No.	Name of the Staff	Events/Guest Lecture	Topic	Date	College
1	Dr.M.Ravindran, Associate Professor & Mr.S.Thirumalai Kumar, Assistant Professor	Two Day Seminar	Challenges in Grid connected Renewable Energy Systems	25.06.2015 & 26.06.2015	Mepco Schlenk Engineering College, Sivakasi
2	Mr.J.Sivadasan, Assistant Professor (S.G)	NPTEL Mentor Workshop	Networks and Systems	13.07.2015	IIT, Madras
3	Dr.M.Ravindran, Associate Professor	Two Day Workshop	Energy Audit and Management	17.07.2015 & 18.07.2015	Thiagarajar College of Engineering, Madurai

SUMMER RESEARCH FELLOWSHIP

Mr.R.Madavan, Assistant Professor had undergone a two months **Summer Research Fellowship** from 06.05.2015 to 05.07.2015 at **IIT Bombay** under the guidance of **Prof. S.V.Kulkarni** under a scheme jointly organized by Indian Academy of Sciences, Bangalore, Indian National Academy of Sciences, New Delhi and National Academy of Sciences India, Allahabad. During this period, he worked with **Crompton Greaves Global R & D, Mumbai** and **APAR Chemicals pvt ltd, Mumbai**.

DEPARTMENT ACTIVITIES

EEE ASSOCIATION

INAUGURAL FUNCTION



The Inaugural function of EEE association for the Academic Year (2015 - 2016) was organized by the Department of Electrical and Electronics Engineering in our College Auditorium on 15th July 2015 at 11.00 AM. The function was honored by our distinguished alumni **Mr.S. Bala Murugan, Senior Section Engineer**, Southern Railways, Tuticorin. The function was presided over by **Dr. S.Shanmugavel**, Principal, **Dr.M.Willjuice Iruthayarajan**, Head of the department and **Dr.R.V.Maheswari, Asso.Prof.** The special address was delivered by **Dr.L.Kalaivani, Asso. Prof (SG)**.

During his inaugural address, chief guest explained about the procedures of Railway Recruitment Board Exam and the various opportunities available for Engineers. He also gave information about the current status and Business opportunities in Railway sector.

ACTIVITIES

BASICS OF MATLAB

A workshop on “**BASICS OF MATLAB**” was conducted on 04.07.2015 by **Dr.R.V.Maheswari, Asso. Prof/EEE** at Research Simulation Lab was organized by EEE Association. The objectives of today’s session are:

- Basics about MATLAB Software
- How to do mathematical & logical operation using MATLAB coding
- How to rectify the errors while executing the MATLAB coding

The main objective of the workshop is to imparting the basic knowledge about the MATLAB software for IInd Year Students. The workshop was planned for every odd Saturdays for IInd yr students and will be continue in forthcoming days.

GATE COACHING CLASS

Department of EEE Association organized a GATE coaching class for the final year students for every weekday from 06.07.2015 on 5.20 p.m. to 6.15 p.m. The GATE class are being conducted by **Mr. S. Thirumalai Kumar, Assistant Professor/EEE** on the topics of Diode and Transistor are discussed in detail. The subjects are being taught in depth and then the problems related to those topics were being solved. The classes were really useful and easily understandable.

INSTITUTE OF ENGINEERS (INDIA)

INAUGURAL FUNCTION



The Inaugural Function of **Institution of Engineers (India)** Students chapter was successfully and grandly held on **14.07.2015** at **EEE Seminar Hall**. Ms.C.Pradeepa, Program coordinator welcomed the gathering. **Dr.S.Shanmugavel**, honorable Principal, presided over the function and distributed the certificates to the winners of various events conducted by IE (I) during the last academic year (2014 – 2015). He advised the students to make use of the Forum for the funded projects and publishing in journals. **Dr.M.Willjuice Iruthayarajan**, Head of our Department delivered special address, appreciating the activities of Forum and encouraging the students to take active participation. The Annual report and achievements was given by the President, Mr.P.Shanmugam and the action plan of current academic year was delivered by Mr.S.G.Sivaram, Secretary. This was followed by the installation of office bearers of this year. Ms.V.Amsaveni delivered the vote of address.

ACTIVITIES



On behalf of IE (I) Forum, a session “**How to present a paper**” was conducted to Second year & Third year students on **20.07.2015** from **5.15 p.m. to 6.00 p.m.** The Session was handled by **Mr.P.Shanmugam**, President of IE(I) and Final year Student who had faced many stages across the state. The session included preparations of abstract, Slide show, stage mannerism and answering the viva questions, approached to the college etc.51 students of both classes attended and felt that it was the motivation at right time.

GATE FORUM



National Engineering College GATE Forum has arranged an awareness programme about GATE for pre final year EEE students at EEE Seminar Hall on 24/06/2015 from 2.00 pm to 3.30 pm. **Mr. Karmegam, Director of GATE FORUM**, Madurai has delivered special lecture about the importance of GATE and opportunities for students who have valid GATE score. He also explained about available coaching facilities in GATE FORUM institute.

MOCK INTERVIEW

EEE Association & Department Placement forum combined and organizes a Mock Interview for IV Year Students. The ultimate aim of the interview is too bring out the students from fear while facing interviews. The interviews were scheduled as two sessions on 06.07.2015 & 07.07.2015. Totally 5 batches with 3 staff members are in the group. After Completion the students came to an idea of Do's and Don'ts in interview.

ALUMNI INTERACTION



Department of EEE organized an Alumni Interaction for our students on 15.07.2015 on 12.00 PM at EEE Seminar Hall. During his interaction he delivered a presentation on “**Railway Recruitment Board Exam and its Benefits**” and the way to achieve their goals in life. He said, “All should learn the taste of success from the failure”. He advised the students to be strong in basics and fundamentals of electrical. At last he pointed out that “Be a smart worker rather than smart work”. The final year students participated in the interaction and improved their knowledge. Students interacted with him and gained more about his experience in Railway sector. His speech benefited them by providing a unique way to set their goals and achieve them. They also got a clear idea about the current status and job opportunities available through Railway Recruitment Board Exam. Finally, the chief guest conveyed his hearty wishes to the Students to lead a successful life.

SPECIAL INTEREST GROUP

CONTROL AND INSTRUMENTATION



For academic year 2015-16, SIG activities oriented to C&I group were initiated from 04.07.2015. As a introduction class for the pre-final year students of EEE, **Mr.J.Sivadasan, Mr.M.Sivapalanirajan and Ms.C.Nivetha Indumathi** gave general awareness about the purpose of control and instrumentation areas in various field of development and the unavoidable use of C&I while making sophisticated technology.

Dr.M. Willjuice Iruthayarajan conveyed the visionary statement for the current academic year to both 3rd and 4th year students of EEE. He also picturised the year plan may be adopted for a significant outcome from the group and to individuals who show the appreciable participation.

After that final year student **Ms.R.Sunitha**, who is one of the resource person from last year SIG activities in the area of controller tuning, gave a introduction of system modeling and controller tuning techniques like Ziegler Nicholas and BLT method for SISO and MIMO system.

EMBEDDED SYSTEM

An Introduction on “EMBEDDED SYSTEM & SIGNAL PROCESSING” was given by **Mr. N.B.Prakash, Associate Professor/EEE** on 04.07.2015 at H4 for Special Interest Group (SIG) members.

Mr. B.Venkatasamy, Assistant Professor/EEE gave a brief introduction on Microprocessors and Microcontroller. He also explained the difference between microprocessors and microcontroller. Then he discussed the real time applications of embedded systems. **Mrs.K.Gowthami, Assistant Professor/EEE** started with definition of embedded system and basics of microprocessors and microcontrollers. She described the hardware and software parts used for embedded system design. Then she explained about PIC microcontroller and its applications and also the PIC Microcontroller kit was shown to the students.

Finally, **Ms.A.Tamilarasi, Assistant Professor/EEE** gave the basic introduction on Field Programmable Gate Array (FPGA). She also discussed about the importance of FPGA and its role in real time applications.

The session was started by 10.30 AM and completed by 12.45PM. Totally 4 students from third year were participated and got the relevant information about embedded system, basics of microprocessor and microcontroller, Programming PIC microcontroller using embedded C and FPGA.

HIGH VOLTAGE ENGINEERING



A general introduction about “**Latest Research and Development Issues in High Voltage Engineering**” was conducted on 04.07.2015 for Special Interest Group (SIG) members.

The session was initiated by **Mr. S.Senthil kumar, AP/EEE**. He gave a brief description about liquid dielectrics. Initially he started with the definition of liquid dielectrics and mainly focused on practical applications in electrical power apparatus.

The next session was initiated by **Mr.B.Vigneshwaran, AP/EEE** related to solid dielectrics. He started with need and applications of solid dielectrics and its breakdown mechanism in high voltage engineering. Then he discussed the insulator and its performance during polluted conditions and enlightens the use of COMSOL software for designing solid dielectrics. As a continuation **Mr.K.Kumar, AP/EEE** and **Mrs.S.Divya, AP/EEE** make clear about the testing techniques involved in solid dielectrics (insulator , bushing) and recent advances in the area of solid dielectrics.

At the end of the session we got feedback from final EEE year students and suggestion from third year EEE students to make an effective learning and expand the practical knowledge in the field of high voltage engineering.

POWER ELECTRONICS & DRIVES

On 10/05/2015 nearly 40 students are participated in this Power Electronics programme. The Group Head **Mr.M.P.E.Rajamnai AP (SG)/EEE** has delivered the expert lecture on the topic of “Introduction of Power Electronics”. He explained the overview of Power electronics in Engineering Application and how the complex engineering problems can be resolved by the power electronics. Also he illustrates the concept of Drives in various industrial fields. Also he instructed the group members to utilize the digital library for inculcate the power electronics concept and make use of various tools such as PSIM, MATLAB to design the power electronic devices and circuits.

POWER AND ENERGY SYSTEM



The Introduction class of “Power and Energy System” was held on 04.07.2015 at seminar hall of EEE department.

The first session was handled by **Mr.G.Kannayeram, AP(S.G)**, he explained about the basics of power systems and discussed about the latest developments in power and energy systems. He also gave the information about the research areas of power system such as FACTS controller tuning, Wide Area Monitoring and stability improvement of power system.

Then the session was continued by **Mr.T.Sivakumar AP**, He described about power system optimization and research areas in Renewable Energy sources. Finally the feedback from students was collected and the class was ended around 1.15 P.M.

SPECIAL INTEREST GROUP – CONTROL AND INSTRUMENTATION



- *Sunitha.R – Final Year*

Special Interest Group of our Department is motivating the students to deepen in their interested subjects. I opt for control system after examining the domains and did my internship programme in “**PID Controller Tuning using Genetic Algorithm**” under the guidance of **Dr.M. Willjuice Iruthayarajan, Professor and Head/EEE** during my semester holidays. I felt very useful, gained confidence and satisfied on completion of my programme. So dear juniors.....grab the opportunity, utilise the resources, update the knowledge, enjoy the result, satisfy on victory.....Meet you on your achievement day..☺

INDUSTRY - INSTITUTION INTERACTION



In continuation with MoU signed with **Saravana Global Energy Limited (SGEL)/ Global Power Research Institute (GPRI), Cuddalore** for 3 years periods. Our PG Students Mr. Gula sekara Pandian and Mr.Senthil Kumar had undergone Inplant training for One week from (22.06.2015 to 27.06.2015). During their training they gain more knowledge's related to Generation, Measurement and Testing of HV equipments under Extra High Voltage.

APTITUDE FORUM



Department Aptitude Forum arrange a aptitude class for the second year students on the topics of “**Number System, Percentage Time and Average**” by final year students. Initially the session was started with the general discussion related to the topics and the students can able to solve the analytical problems with the shortcuts.

ENTREPRENEURSHIP DEVELOPMENT CELL [EDC]



As a part of **EDC-EEE**, we have conducted an awareness program on Entrepreneurs Development for EEE students – session I on 07.07.2015 at EEE department seminar hall. The speech was delivered by Entrepreneurship trained faculty member **Mr.N.B.Prakash, Asso. Professor/EEE**. He initiated the session with the definition of entrepreneur and mainly focused on necessity of entrepreneur skills. In continuation with that a PowerPoint presentation was given under the topic “**The Role of the Entrepreneur**” by student coordinator **Ms.G.K.Archana Dharsini/Final EEE**. Session II was conducted on 14.07.2015, where general discussions about concepts of leadership, entrepreneurship, character, and identity was done. In this program around 20 students (future entrepreneur) were participated and get benefited.

PLACEMENT FORUM

SOFT SKILL DEVELOPMENT



In our Department the Soft Skill development Program was conducted for Final year EEE students at every week Thursday by **Ms.Sundara Kamalam, Soft Skill Trainer** of our college. Through this soft skill development programme we have given the training for the final year students that how to face the campus interview.

First session she handled the topic on “**Interview Techniques**”. All the final year students have undergone this training. They will get the clear idea about how to face the interview with some corporate attitudes.

Second session she deals with the topic on “**Ethics in our Employment**”. Through this training the students may able to understand the ethics and corporate culture in our working place.

Third session she taken about “**Resume Preparation and Body Language**”. In this session the students may got clear cut idea about the resume preparation to face the interview. As well they benefited towards how to behave in front of interviewer.

PLACEMENT AWARENESS



- *Bala Murugan.M – Final Year*

Placement forum of our Department was organized a placement awareness program to second year students of our department. The session was handled by **M. Bala Murugan of final year student**. He motivates the students to present a paper in reputed institutions. As well as he insisted the students to identify their area of interest and set their goals according to that. During his session he pointed out the steps involved while preparing slides for the paper presentation. At last he gave brief lecture about the resume preparation and some useful tricks regarding placement. He also asked the students to study the basic concepts of C and C++.

Our Students Bagged their Positions in Various Clubs

S.NO	NAME	CLUB	DESIGNATION
1.	P.Balamurugan	Literary Club	Secretary
2.	V.Logesh Raja	Institution of Engineers(India)-Student's Chapter	Executive member
3.	K.Arunkumar	Rotract club	Joint Secretary
		Sports	Green House Caption
4.	S.P.Atul Krishna	Fine Arts Club	Public Relation Officer
5.	B.Alwyn Prabhu	Entrepreneurship Development Cell	Joint Secretary
6.	C.Karthika	Institution of Electrical and Electronics Engineers (Student's Chapter)	Program Coordinator
7.	G.K.Archana Dharsini		Event Coordinator
		Entrepreneurship Development Cell	Student Coordinator
8.	M.Manogari	EEE Association	Treasurer
9.		Institution of Engineers(India)- Student's Chapter	Program Coordinator
10.	N.Maheswari		Technical Organiser
11.	P.Nagalakshmi		Executive Member
12.	R.Muthu Karthik	Rotract Club	Program Coordinator
13.	A.Arun	Entrepreneurship Development Cell	Secretary
		EEE Association	Associate Coordinator
		Institution of Electrical and Electronics Engineers(Student's Chapter)	Student Coordinator
14.	S.Mohamed Suhail		President
15.	P.Amarnath	Youth Red Cross and Blood Donors Club	Program Coordinator
16.	A.Jenifer		Chief Executive
		EEE Association	Event Coordinator
17.	A.Daniel Praveen Raj	Youth Red Cross and Blood Donors Club	Creative Designer
18.	S.Kanagavalli	EEE Association	Executive Member
19.	S.Marithai		Program Coordinator
20.	A.Anto Sharon Prakash		Student Coordinator
			National Service Scheme
		Institution of Engineers (India)- Student's Chapter	Executive Member
		Youth Red Cross and Blood Donors Club	Advisor

S.NO	NAME	CLUB	DESIGNATION
1.	Shanmugam. P	Institution of Engineers(India)-Student Chapter (Code-628503)	President
2.	Sivaram. S.G		Secretary
3.	Usharani. R		Treasurer
4.	Pradeepa. C		Program Coordinator
5.	Sathya. M		Chief Designer
6.	Rashmi Silvania. A		Event Coordinator
7.	Santhoshkumar. S		Executive Members
8.	Uma Maheswaran. R		
9.	Natarajan. S, Rama Subramanian.		
10.	Saktheesvari. S		Volunteer
11.	Sathianarayanan. M	National Service Scheme (Unit 1 & II)	Student Coordinator
12.	Senthil Kumar. K		Active Volunteer
13.	Pradeepa. C, Selvajothi. G		
14.	Sunitha. R, Selvarani.S		
15.	Sneha. R, Sathya.M		
16.	Pranava karthikeyan.M.S	EEE Association	Secretary
17.	Uma Maheswaran. R		Associate Coordinator
18.	Sunitha. R		Program Coordinator
19.	Revathi. E		Event Coordinator
20.	Besil Bal Chandru. G		Chief Designer
21.	Indhumathy. M		Executive Members
22.	Suresh kumar.P	IEEE Student Chapter (STB 35441)	Secretary
23.	Sangeetha. R.C		Treasurer
24.	Besil Bal Chandru. G		Chief Designer
25.	Subbiah. M, Sathianarayanan. M		Executive Members
26.	Pranava karthikeyan.M.S		
27.	Shanmugam. P	National Cadet Corps	CQMS
28.	Pranava karthikeyan.M.S		Sergeant
29.	Sathyananthan. P		Sergeant
30.	Besil Bal Chandru. G		Corporal
31.	Shanmugam. P	Junior Jaycee Wing(JCI)	Joint Secretary
32.	Sathya. M		Chief Editor
33.	Uma Maheswaran. R		Executive Members
34.	Pranava karthikeyan.M.S		
35.	Narayanan.K	Fine Arts Club	Executive Members
36.	Selvajothi. G		
37.	Sathyananthan. P		
38.	Sathianarayanan. M	ISTE Student Chapter	President
39.	Vignesh kumar.V		Program Coordinator
40.	Narayanan.K	Rotract Club	Chief Program Coordinator
41.	Besil Bal Chandru. G		Chief Editor
42.	Shanmugam.P	Sports	Secretary
43.	Sam Maxwell.M		Blue House Captain

Online Materials

MIT / EDX

TECHNOLOGY ORIENTED NEWS

New Hybrid Robot Has Soft 'Skin' But Hard 'Guts'	http://www.livescience.com/51511-hybrid-robot-soft-outside-hard-inside.html
Diesel-Powered Fuel Cell Produces Clean Electricity	http://spectrum.ieee.org/energywise/energy/fossil-fuels/dieselpowered-fuel-cell-produces-green-electricity
Inexpensive 3-D Imaging Device Integrated Into a Smartphone	http://spectrum.ieee.org/nanoclast/semiconductors/optoelectronics/inexpensive-3d-imaging-device-integrated-into-a-smartphone
New Brain-Like Computer May Solve World's Most Complex Math Problems	http://www.livescience.com/51447-brain-computer-may-solve-complex-math-problems.html
Perovskite Solar Cell Production Gets Environmentally Friendly	http://spectrum.ieee.org/nanoclast/green-tech/solar/perovskite-solar-cell-production-gets-environmentally-friendly

CURRICULUM

Practical Programming in C:-	http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-087-practical-programming-in-c-january-iap-2010/
Introduction to Programming in Java:-	http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-092-introduction-to-programming-in-java-january-iap-2010/
Introduction to MATLAB:-	http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-094-introduction-to-matlab-january-iap-2010/
Circuits and Electronics:-	https://www.edx.org/course/circuits-electronics-mitx-6-002x-0
Principles of Electric Circuits:-	https://www.edx.org/course/principles-electric-circuits-tsinguax-20220214x-0
Solar Energy:-	https://www.edx.org/course/solar-energy-delftx-et3034x

FLOURISH YOUR SOFT SKILLS!!!

- Uma Maheswaran.R, Final year 'B'

In the present global scenario irrespective of the fields, all sort of employers seek good soft skills from their employees in addition with the hard skills. Not only in the case of jobs, but also soft skills plays an invisible vital role in one's personal part. Yes, to build a good relationship with the society; one must have interpersonal as well as intra personal communication skill, which comes under the soft skill. Thus the soft skill has an inevitable part in the society.

What is soft skill?

There are so many definitions have been given for the term "soft skill". Some of them have been given below.

- The phrase '*soft skills*' is often used to describe the skills which characterize relationships with other people, or which are about how you approach life and work.
- Soft skills is a term often associated with a person's "EQ" (Emotional Intelligence Quotient), the cluster of personality traits, social graces, communication, language, personal habits, interpersonal skills, managing people, leadership, etc. that characterize relationships with other people.
- Soft skills are personal attributes that enhance an individual's interactions, career prospects and job performance.

Thus it can be summarized from the said definitions that "*the soft skill can be said as one's personal attributes that enable the one to interact effectively and harmoniously with other people*".



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Why is it so important:

The NASSCOM and Aspiring minds have made surveys which states that about 50% of the engineers are unemployable due to their lack of skill development. Thereby it can be summarized that Technical skill ALONE does not make someone competitive in the job market. Today's employees have gaps in:

- Communication skills
- Team work
- Interpersonal skills
- Problem solving
- Project/Time management

The above said fields come under one roof, the so called 'soft skill' which makes clear that one must be good in soft skills along with the hard skills to survive in the present employment platform. The importance of the skill can be shortly represented as in the following image:

**Common Soft Skills:**

The soft skills broadly spread its wings. Though all the skills are necessary the prime skills can be listed below:

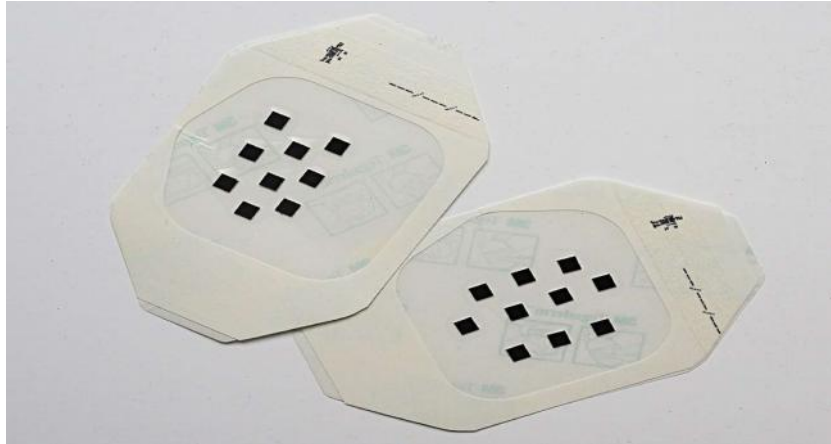
- Communication skills
- Adaptability and Flexibility
- Team work and collaboration
- Problem solving ability
- Time management
- Creativity and Decision making ability
- Emotional Intelligence

. In the coming issues let us understand about all these skills and flourish these within our self!

[Keep on flourishing.....]

Article by Students

Needle free vaccines



- Vaccines save lives, but most of them are delivered by needle. That's a problem for people without access to refrigerated solution, clean syringes, and safe ways to dispose of medical waste.
- Biomedical engineer Kasia Sawicka invented a painless alternative: a patch, called Immuno Matrix that can vaccinate patients without breaking the skin. This technology can affect how vaccines are delivered, especially during pandemics. The skin doesn't absorb large molecules easily, which meant Sawicka had to find another way to get vaccines across that barrier.
- As an undergraduate at Stony Brook University, she worked in a lab that stocked an extremely water-absorbent material called poly-vinylpyrrolidone. She found that this polymer (used in hairspray during the era of beehive hairdos) could pull water out of the skin. When moisture returned, the outer layer of the skin swelled, allowing larger-than-usual molecules to enter.
- Over several years, Sawicka perfected a process that involves combining the polymer with vaccine solution, forming it into nano fibers with large surface areas, and weaving those fibers into dense mats. In tests on rats and synthetic human skin, the patches delivered vaccine molecules 250 times larger than those the skin typically absorbs. No prick necessary.

By,

Jegan.M, III Year A Sec

Two wheeled electric car C1



- With fuel efficiency crucial to easing climate change, it had been believed that most commuters drive around in way too much auto-especially for daily activities like commuting and grocery shopping.
- Motorcycles make more sense for single-passenger trips, but they are more dangerous to operate than cars, expose riders to the elements, and require skill to keep upright.
- It has two wheels, like a motorcycle, but a steel and composite outer body, like a car. A patented control system, featuring two gyros that spin in a compartment beneath the driver's seat, is the secret to the C-1's balancing act. The gyros provide the torque to keep the vehicle upright no matter what the driver does and to hold it at the precisely correct lean angle when the vehicle turns.
- The allure of a two-wheeled, self-stabilizing car has tempted automotive designers for at least a century, but earlier prototypes had fatal flaws—the gyros were too large, the mechanical control systems too crude. The C-1 instead employs the foot-wide, high-speed, computerized technology of devices known as control-moment gyros (CMGs), which are mostly used for positioning satellites in space. Several prototypes later, Lit produced the C-1. Sleek and white, it looks like a cross between a classic iPod and a light cycle from the movie Tron. In preliminary road tests, the C-1 prototype stayed upright as it rounded turns and reached 30 miles per hour.
- The planned-for specs of the finished vehicle are zero to 60 miles per hour in six seconds or less, a top speed of 100, and a 200-mile range, powered by a battery that is a fraction of the size of the one in a Tesla.

By,

Derick.C, III Year A Sec

PERSONALITY TO KNOW

ISAMU AKASAKI

Stefan Walter Hell is a Romanian born German physicist and one of the directors of the Max Planck Institute of Biophysical chemistry in Germany. He received the Noble prize in chemistry in 2014 for the development of “**Super Resolved Fluorescence Microscopy**”, together with Eric Betzig and William Moerner. Stefan Walter Hell was born for the Banat swabian family in Arad, Romania on 23 December 1962. He attended his secondary education at the Nikolaus Lenau High School in Timișoara before leaving with his parents to West Germany in 1978. Hell began his studies at the Heidelberg University in 1981, where he received his doctorate in physics in 1990. His thesis advisor was the solid-state physicist Siegfried Hunklinger. He was an independent inventor for a short period working on improving depth (axial) resolution in confocal microscopy, which became later known as the 4Pi microscope. From 1991 to 1993 Hell worked at the European Molecular Biology Laboratory in Heidelberg, where he succeeded in demonstrating the principles of 4-Pi microscopy. From 1993 to 1996 he worked as a group leader at the University of Turku (Finland) in the department for Medical Physics, where he developed the principle for stimulated emission depletion STED microscopy. From 1993 to 1994 Hell was also for 6 months a visiting scientist at the University of Oxford (England). He received his habilitation in physics from the University of Heidelberg in 1996. On October 15, 2002 Hell became a director of the Max Planck Institute for Biophysical Chemistry and he established the department of Nano bio photonics. Since 2003 Hell has also been the leader of the department "Optical Nanoscopy division" at the German Cancer Research Center (DKFZ) in Heidelberg and Professor in the Heidelberg University Faculty of Physics and Astronomy. For the achievement of Stimulated Emission Depletion microscopy and its significance for other fields of science, such as the life-sciences and medical research, he received the 10th German Innovation Award (Deutscher Zukunftspreis) on November 23, 2006. He received the Nobel Prize in Chemistry in 2014.



“If you really look at it, I was trying to sell a dream ... There was very little I could put in concrete to tell these people it was really real.”

- Madasamy @ Yuvaraj.K.,

Third year Sec - A

TIME TO KNOW OUR ALUMNI

BALA MURUGAN.S., BE., M.B.A.,

Email: *balamurugansse@gmail.com*

Contact: +91 9845482281

PASSED OUT: 1998

CURRENT WORKING STATUS:

Senior Section Engineer, Southern Railway,



PROFILE SUMMARY

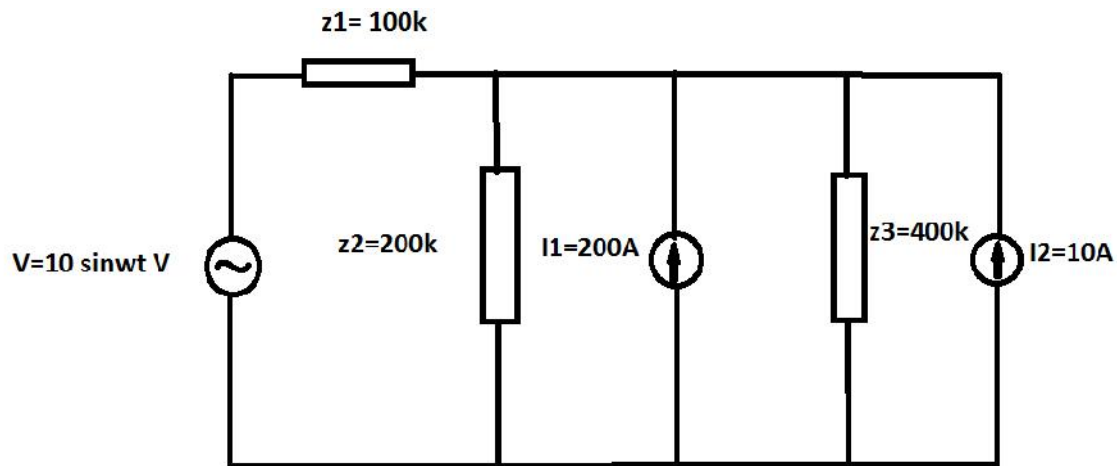
He started his career in Southern Railways in the year 2000. He has worked in various areas under Southern Railways. He has a various work experience in the fields of Electrical locomotive maintenance, Machinery and plants maintenance and quality control of various wagon manufacturing. The awards which he has won tell us the tales of his enactments and encompassments. He has been certified EMS certification. He was awarded the certificate of proficiency for the course on Pneumatic and hydraulic control by the Advanced Training Institute, Kolkata. He was awarded for his meritorious service during the year 2008-2009.

Hunt the Answer

INTERACTIVE QUESTION

In this academic year (2015 – 2016), we are introducing a new interactive page to bring out the solving skills of the students of our department. From this issue; two questions will take part in this session. The students can mail their answers to the ID below. Attractive prizes are awaited for the first two members!! (Cumulative of all Issues in this Academic Year)

1. Check whether the circuit is applicable for reciprocity theorem



2. A disease that has been seen spreading across the globe is now being a menace to the countries. The origin of the disease was Arab Emirates.

What is the name & background of the disease?

Mail ID: neceeenewsletter@gmail.com

Students Achievements

Second Year 'A'

S. NO	NAME	EVENT	VENUE	DATE
1	S.Arunjeyakumar M.Abdul Kader Riyaz M.Abdul Hameed Sharik J.R.Abshek Jayanth S.Aravind R.Arun Kumar M.Aswanth Navamani M.Ishwara Moorthy R.Ajith V.Jagadesh C.Barath Mari M.Hari Haran	YRC-Blood Donation Camp	Civil Department, National Engineering College	21.07.2015

Second Year 'C'

S.NO	NAME	EVENT	VENUE	DATE
1	T.Sathish F.Sam Christopher Ponraj I.Ramanarayanan @ Ramesh M.Saravanan M.Sri Jawahar	YRC-Blood Donation Camp	Civil Department, National Engineering College	21.07.2015

SL.NO	NAME	EVENT	VENUE	DATE
1.	F. Sam ChristopherPonraj	Work shop-hypertext pre processor	Tirunelveli	28.06.2015
2.	L.Ramanarayanan@ramesh			
3.	T.Sathish			
4.	M.Sri Jawahar			
5.	R.S.Raja			
6.	T.Rajesh Pandi			

Third Year 'A'

S.NO	NAME	EVENT	VENUE	REWARDS	DATE
1	S.Gulshan	Annual training camp (NCC)	V.V College of Engineering, Tirunelveli	Participation	17.06.2015 to 27.06.2015
2	R.Bavithra				
3	A.Amala Aani	Annual training camp (NCC)	V.V College of Engineering, Tirunelveli		17.06.2015 to 27.06.2015
		National Games Selection Training camp – 2 (NCC)	Bharathiyar College of Engineering		05.07.2015 to 14.07.2015
		Qater Guard Training	Rani Anna College of Arts and Science for women		18.07.2015 , 19.07.2015
4	R.Anusuya	Annual training camp (NCC)	V.V College of Engineering, Tirunelveli		17.06.2015 to 27.06.2015
		Qater Guard Training	Rani Anna College of Arts and Science for women	18.07.2015, 19.07.2015	
5	T.Ajith kumar	Annual training camp (NCC)	V.V College of Engineering	Participation	17.06.2015 to 27.06.2015
6	M.Bala Subramaniam				

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