



National Engineering College

(An Autonomous Institution)



ECE Association

Volume - 1

May 2013



Progressing Steps of Electronics & Communication Engineering Association

(June 2012 - April 2013)

ECE ASSOCIATION NEWSLETTER

CHIEF PATRON:

Thiru K.Ramasamy -Chairman

PATRONS:

Thiru K.R.Arunachalam -Member, Managing committee

Dr. Kn.K.S.K.Chockalingam -Director

Dr. P.Subburaj -Principal

&

Dr. A. Shenbagavalli -Professor and Head of ECE



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FROM THE PATRONS



CHAIRMAN'S MESSAGE

Education is the underpinning for the development of any country. Our Institution National Engineering College has dedicated ourselves to impart education and develop the students to be a responsible engineer, obliging person to the society and superior citizen to our nation. Students of our institution are carved carefully by which the qualities of hard work, discipline and ethical practices in profession are imbibed in them constantly.

Our institution makes the students an equipped professional with an ever open and fresh mind for new thoughts in technological improvements. We are in the progress of harvesting the confident of the students which will emerge as valuable contributory assets to the development of the nation.

Thiru. K. Ramasamy
Chairman



MANAGING TRUSTEE'S MESSAGE

We at National Engineering College trust that today's juvenile learner need to inculcate them in analytical orientation to understand and analyze complex real world tribulations. Our edification system is anchored around this philosophy which is guided by our vision and mission.

Our aim is to equip the students with all obligatory skills by which they serve their communities and contribute to the growth and progress of the country. Also we are maintaining a close relationship with corporate to provide assistance to our students for work experience, which in-turn is creating a bridge between academics and professional world. To attain, our college has many students' bodies and clubs which provide them a platform to realize their potential and polish their talent by actively engaging in various activities.

Thiru. K. R. Arunachalam
Managing Trustee



DIRECTOR'S MESSAGE

Victory comes to those who work hard and puts continuous effort with confident. Our Institution National Engineering College serves in shaping futures of rural citizens of our country.

The education system in our institution instills in the minds of students, capacities of inquiry, creativity, technology, entrepreneurial and moral leadership to produce an Autonomous Learner. Autonomous Learner has the ability to respect authorities and be a conscientious engineer.

Students are the leaders who would work together as a Self-organizing Network and transform India into a developed nation in a time bound manner.

Dr. Kn. K. S. K. Chockalingam
Director



PRINCIPAL'S MESSAGE

We here come a long way since 1984. It's the people who are here made NEC an amazing autonomous institute. But for us there is a long way to go – dreams to fulfill, heights to reach and responsibilities to carry out.

Knowledge is only as powerful as the application of it and as useful as the care that goes into the application. Let's put wisdom in education by combining knowledge with application, compassion & insight. Some of you will be engineers who will solve the most critical problems, scientists who will invent, business leaders who will generate wealth and employment for the society and teachers who will create tomorrow's engineers, scientists and business leaders. But we aspire that all of you will be most caring, wise & determined human beings. I dare you to dream, to work smart and strive for nothing less than excellence.

Dr. P. Subburaj
Principal

About the Association

ECE Association is an entity of the Department of Electronics & Communication Engineering of our college. This association aims at: cultivating and improving the organizing capabilities of the students, bringing out the technical skills and non-technical skills.

This association conducts events like symposiums, workshops, career development programmes etc.

ADITA 2K12



The one-day intra-college technical symposium “ADITA 2K12” was conducted on 27th September 2012. The symposium was organized exclusively for 2nd & 3rd year students. The main aim of the symposium was to bring out the talents of the students in technical area and to portray their presentation skills. The symposium comprised of three events:

Paper Presentation, Qucaz and Geluk-Schach. The event “Qucaz” was General Knowledge quiz. The questions in this event were focused on General Knowledge and current affairs. More than 30 teams participated in this event. The organizing team received 44 papers from the students belonging to various departments of the college, out of which, 23 were selected based on the technical criteria. The students were very much dedicated and interested in presenting their papers.

The techno-fest ended with the fun of knowledge ie. the event “Geluk Schach”. This event tested the multi-tasking capabilities of the students. This event was an individual event. The winners & runners of all the events were awarded with exciting prizes.

NECTAR 2K13

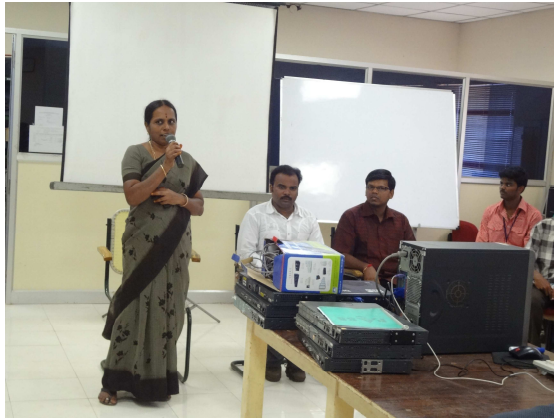


Our association conducted a one day inter-college technical symposium **NECTAR 2K13**. This symposium was exclusively organised for circuit branch students on 5th March 2013 at our college premises. We received 273 papers for the symposium which was later shortlisted to 22. Among the 463 applicants 35 were selected for the workshop. Dr.Kn.K.S.K.Chockalingam, the Director, presided over the function in the presence of Dr.P.Subburaj, the Principal and Dr.A.Shenbagavalli, the HOD.

Mr.Godwin Gnanaraj, Director of Doordharshan, Rameshwaram was the chief guest. The function was inaugurated by the chief guest. The chief guest

enlightened the students on the need to inculcate the essential knowledge and potential to meet the demands in the age of technical boom. He also urged the students to present research papers based on the recent developments in the field of engineering and technology. Being a civil servant he urged the students to take the IES examinations and gave an idea in that field. Finally the chief guest launched the flash point show of the symposium. The events conducted are Paper presentation, Gamouklage, Workshop on PSoC and Trikit. In the valedictory session, Dr.P.Subburaj, the principal and Dr.A.Shenbagavalli, the HOD distributed the certificates and prizes to the participants and the winners.

Networking Workshop on “Cisco Devices”



The workshop was conducted by “Pandian Systems and Solutions Pvt. Ltd.” at the college premises on 4th August 2012. Mr.P.Athideerapandian, Director of “Pandian Systems and Solutions Pvt. Ltd.” handled the sessions for the day.

The core idea of the workshop was to design and configure a small college / department network. It included concepts of IP addressing, DHCP, Routing, VLANs and Inter-VLAN Routing.

The tools that were used include: GNS 3 – Open Source Network Simulator and Cisco Packet Tracer- Exclusive CISCO simulator.

The real devices used were: Cisco 2500 Routers, Cisco 2600 Routers and Cisco 2950 Switch.

The students were provided a hands-on demo on real devices and students were allowed to work simultaneously on simulator tools.

Workshop on NS-2

Our association organized a two day workshop on Network Simulator-2. It was conducted on 24th & 25th of January 2013. Mr.R.Thirukkumaran, Proprietor – SAT Infosys, Coimbatore, was the Resource person. The two-day workshop on NS-2 dealt with the tools to simulate the behavior of wired and wireless

networks. The workshop included creating the event schedule, turning on tracing, creating and monitoring the NS-2 programs. NS-2 workshop was very much informative for the students. The students were made to think in a innovative way. This workshop was conducted for both UG and PG students.

Workshop on PSoC

A workshop on PSoC was conducted on 5th March 2013 by Mr.N.Arumugam, Associate Professor and Mr.T.Devakumar, Assistant Professor. This workshop was organised by ECE Association to inculcate higher technological views in the minds of the students. This workshop was handled in parallel with the Inter-College symposium. As mentioned earlier, 35 students were selected for the workshop out of the 463

applicants. Mr.Arumugam explained the features and advantages of PSoC chips over other chips. This workshop gave the basic ideas using PSoC as ASIC, FPGA and as micro-controller. The example programs were executed using 2nd generation software ‘PSoC creators’ and the complied program was downloaded on the PSoC chip. This session was purely based on teaching the students about the practical application of PSoC.

Guest Lecture on “Space Technology”



A Guest lecture on “Space Technology” was arranged by our association on 17th July 2013. This session was conducted for all the students. The Resource person for this program was Mr.S.Ingersol, Scientist(SG), Indian Space Research Organisation, Mahendragiri. Mr.Ingersol quoted that space and technology are the ones that relates the

entering and leaving objects or forms of life in space. He also specified that each and every day-to-day technologies like weather forecasting, GPS system, remote sensing, satellite and long distance communication systems rely on the space infrastructure. He explained more about space that it’s such an alien environment and attempting to work in it requires new techniques and knowledge. He also told about new and advanced technologies. He specified Human spaceflight, Space exploration, Space architecture, Space colonization, Space industry of Russia as the future technologies. He motivated young students to work in research areas. He concluded his lecture with a note to the students to work and do research for the welfare of our country.

Guest Lecture on “BIO-METRICS”



Mr. Dashnamoorthy, Hardware Architect, Osteraut Group, USA presided over the technical seminar on “BIOMETRICS” organized and conducted by our association on 20th January 2013. Mr. Dashnamoorthy is an alumni of our

college. This session was specially organized for the third year students. He started off his lecture by saying that biometrics involves measuring one or more unique physiological human characteristics -- the shape of a body, fingerprints, structure of the face, DNA, hand/palm geometry, iris patterns, and even odor/scent. The session dealt with the practical applications of biometrics and its implementation in day to day life. This particular session was very much interactive. He repeatedly stressed on the importance of practical knowledge of the students rather than the theoretical knowledge.

Guest Lecture on “How to Sell Yourself”



Mrs. Lavanya Dashnamoorthy handled the session on the topic “How to Sell Yourself”. This seminar was held on 21st January 2013.

Mrs. Lavanya told about the importance of ‘Soft Skills’ and ways to

enhance them. She said that, the job market is becoming highly competitive and it is transforming into a “survival of the fittest” environment. So, it is necessary to improve oneself in technical and non-technical aspects.

She gave a brief description about vocabulary and suggested certain books which would help the students to improve their vocabulary.

She instructed the students to log on to websites like www.ted.com and www.ieeexplore.org so that the students will stay updates to today’s technology.

Seminar on “EMERGING TRENDS ON EDA TOOLS”



A one day technical seminar on “Emerging Trends on EDA Tools” was organized by our association on 30th August 2012. This session was arranged for the final year and pre-final year students. Mr. Justus Gnanakumar, Head, Computer Aided Design and Drafting (CADD) Centre, Tirunelveli handled the session.

He discussed about various softwares to work with EDA tools. He began his lecture by saying that electronic design automation (EDA or ECAD) is a category of software tools for designing electronic systems such as printed circuit boards and integrated circuits. EDA for electronics has rapidly increased in importance with the continuous scaling of semiconductor technology. EDA tools are also used for programming design functionality into FPGA’s he added. He especially focused on two important EDA tools OrCAD and Altera softwares. He also explained the unique and special features of these softwares. The session was much interactive and informative.

Seminar on “Fundamentals of Electronics”

The seminar develops an understanding of basic electronic principles and applications and provides the foundation for further studies in electronic engineering or related fields. Mr. N. Arumugam, Associate Professor of ECE department was the resource person.

Students were given an introduction about electronic circuit theories, device operating principles and applications of techniques of electronics in circuit design. They had gain an understanding of basic circuit laws and network theorems, as well as semiconductor physics, device characteristics, operating principles and common applications of diodes and

transistors. Students learnt about the topic through a hands-on approach and through worked examples, tutorials, laboratory sessions, electronic project and e-learning materials. The event provided the fundamental knowledge in electronics which enabled the understanding of its applications. The students got an idea about the theoretical designing of the circuits. The specific areas covered in this programme are Fundamentals of Electricity and Electronics, Electronic components and circuit theory, Electronic devices and applications, Electronic Test and measurements and finally Electronic project design and circuit construction.

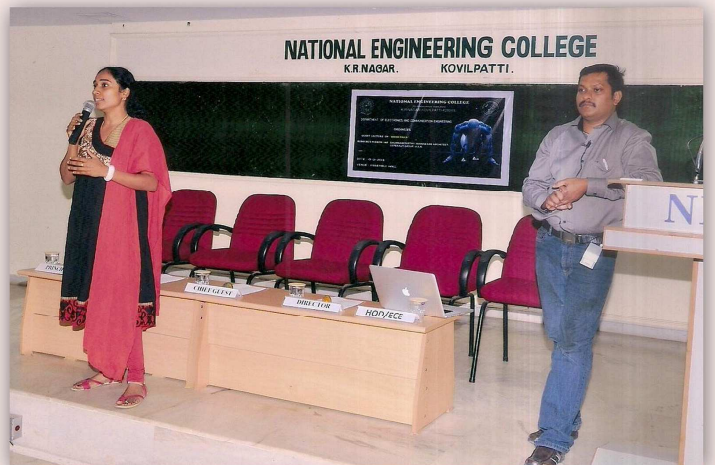
Power Counsling Programme



Motivation and mind power are two important emotional powers that an individual require for success. The mind plays an important role in achieving every success of the life. The association organized a power counseling which was a

visual program for the second year students which made them realize their own mind power .The visual was a speech delivered by Dr.Prabhakaran. The program was conducted on two phases. The first phase was conducted on 4th September 2013 and the second phase was conducted on 22nd September 2013. The session dealt with mind related problems and their solutions. Most of the mind-related problems arise due to inappropriate handling of the mind. As no academic books deal with this problem this counseling session was very much useful for the students.

Gallery



NATIONAL ENGINEERING COLLEGE
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K.R.NAGAR, KOVILPATTI - 628503

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Estd : 1984

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STRIKES ON 28-02-2K13

EVENTS WIN AMAZING PRIZES

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K.R. Nagar, Kovilpatti.

Department of Electronics and Communication Engineering

Deadline 20.9.2K12

ADITA 2K12
(An Intra College Technical Symposium
(Exclusively for II & III years)

Strikes on 27.9.2K12

Win Amazing Prizes

EVENTS:

- ⇒ Paper Presentation
- ⇒ Technical Quiz
- ⇒ Other Technical Events

Date of Intimation: 21.9.2K12

Contact Us: 0775

C.P.Harish (Final ECE)

P.Aswin (Pre-Final ECE)

S.Siva Praya (Final ECE)

J.Robins (Pre-Final ECE)

Mail us: adita2k12@gmail.com

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National Engineering College
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K.R.Nagar, Kovilpatti-628 503

Department of Electronics and Communication Engineering

Proudly Presents,

NECTAR'2K13
A National Level Technical Symposium

Strikes on:

Venue: Auditorium



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Department of Electronics & Communication Engineering

An Intra College Technical Symposium

ADITA 2K12
(Exclusively for II & III years)

Strikes on: 27-9-2K12

Venue: Assembly Hall

NATIONAL ENGINEERING COLLEGE
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K.R.Nagar, Kovilpatti - 628 503

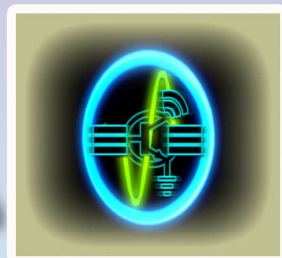
The Management, Principal & Members of the Department of Electronics & Communication Engineering cordially invite you to participate in the National Level Technical Symposium.

This Dr.D.Govinda Gowda (IIT-BITS) has finally consented to be the chief guest and deliver the inaugural address.

This Dr.K.R.Aravind Babu will preside over the function in the august presence of Dr.Ka.K.S.K.Chockalingam & Dr.P.Subburaj

Date: 20.02.2K13 @ 10:00AM

Venue: Auditorium



NATIONAL ENGINEERING COLLEGE
(An Autonomous Institution)
K.R.NAGAR, KOVILPATTI - 628 503

The Management, Principal & Members of the Department of Electronics & Communication Engineering cordially invite your gracious presence for the Intra - College Technical Symposium

On SEPTEMBER 27, 2012 at 10:00 AM in Assembly Hall

ADITA 2K12

Tiru. K.R.Aravind Babu will preside over the function in the august presence of

Dr.Ka.K.S.K.Chockalingam
Director

Dr. P. Subburaj
Principal

&

Dr.A. Srinivasgopal
Professor & Head of ECE