

e-samparka Newsletter

Department of Electronics and Communication Engineering
The National Institute of Engineering

(An Autonomous College under V.T.U., Belgaum & Accredited by NBA, New Delhi)

Issue 1. January 2014

About the Department

In the year 1971, the institute started the Electronics and Communication Engineering course for the benefit of students who are keen on knowing subjects from traditional to modern aspects of Electronics. The department has been continuously striving for excellence in engineering education. The department has always been on a high growth path to keep pace with the ever increasing importance of the major disciplines of study and current technology trends. The programme emphasizes the basics of Electronics, Computers, Communication Engineering and Instrumentation. The full-fledged department started functioning from the year 1987. The department is well equipped with modern laboratory facilities and good infrastructure.

The Department has seven major laboratories, viz Electronics lab, Integrated Circuit Lab, Power Electronics Lab, Communication Lab, Microprocessor Lab and Computer Lab. Newly added labs are VLSI and Embedded System and Digital Signal Processing (DSP) labs supported by latest software tools.

The Department has successfully completed many industry and KSCST sponsored projects. Indeed, a few members of the teaching faculty have been recognized as textbook reviewers and fellows of Institution of Electronics & Telecommunication Engineers. With competent staff and adequate equipment, the Department can take up research / consultancy work on electronics, communication and allied fields.

Message from the Head of the Department

Dr. Rohini Nagapadma



It is indeed my great pleasure that the Electronics and Communication Engineering department NIE is publishing its first newsletter etching every aspect of activities and events held in the academic session-2013-14. The newsletter 'e-samparka' aims to bring into view, about various proceedings, functions and happenings in the department.

It also acclaims and appreciates efforts and achievements of faculty and the students at various platforms of electronics fraternity. It will offer a resourceful outlook to the readers of other institutes and firms to get acknowledged with the accomplishments of the Electronics and Communication Department, my compliments to the editorial team for this achievement. I wish this newsletter reaches greater heights in the years to come.

Vision of our department

"To develop the Department in to a Centre of Excellence in Electronics and Communication Engineering Education in the Country with Global Standards by imparting quality based technical education through class room learning, innovation, research and teamwork"

Mission of our department

To provide value based education through superior learning experience as required by society in general and to help the younger generation to become competent and highly skilled engineers to meet global challenges.

From the Editor's Desk

Nayana G. H.



It gives me great pleasure to present the first issue of the newsletter of our department 'e-samparka'. My sincere thanks to all faculty members and students who willingly responded to our call in contributing to this edition.

IN THIS ISSUE

Short term Courses / Workshops organized

Papers Published / Presented in Conferences

About Electronics & Communication Engineering Association (ECEA)

Registration for Ph. D

Technical Visit

Students' Achievements

Short term Courses / Workshops organized



One Day seminar on "Embedded Systems" was conducted on 1st March 2013 for VI semester students organized by the Department of E&C, under Technical Educational Quality Improvement Programme (TEQIP-II) in association with Mysore Embedded Training Institute (METI).



"NIECEFEST 2013" - A National Level Student Technical Paper Presentation was organized at Sir M. V. Auditorium, NIE, Mysore on 10th & 11th May 2013. The Departmental News Letter Samhitha 2013 was released by Suchitra R. C., Vice- President, Rangsons Pvt. Ltd. during the inaugural function of NIECEFEST-2013.

K. V. Nagalakshmi, Associate Prof. and HoD, M. S. Vijay Kumar, Associate Professor organized "One-day Workshop on TI MSP 430" on 22nd August 2013. The Resource person was C.P. Ravikumar from Texas Instruments.



"Two-day workshop ROBOTRYST-2013 at Sir M.V. Auditorium, NIE, Mysore on September 27 & 28, 2013. Workshop was conducted by Mr. Saksham Khanna and Mr. Kushank who are the Research Engineers at Robosapiens Technologies Pvt. Ltd.



K. V. Nagalakshmi, Associate Prof. & HoD, M. S. Vijaya Kumar, Associate Professor and S. Parameshwara, Asst. Professor organised Two-day Faculty Development Programme on "Emerging Trends in Nano-electronics and Device packing" from 30th September 2013 to 1st October 2013 at Sir M. V. Auditorium, NIE, Mysore.



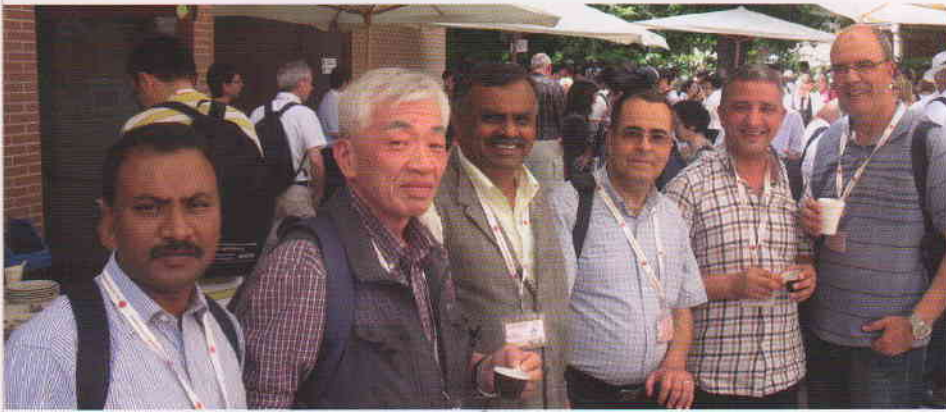
K. V. Nagalakshmi, Associate Prof. and HoD organized a Seminar on "Software Defined Radio" by Jafrey Pawlan, Pawlan Communication, from USA on 27th January 2014.



NIE E&C 1975 Alumni group felicitated Pramod G. Kamath and Noor Asma of VII Sem., E&C for their Academic Excellence on 16th November 2013.

An exhibition of stack projects by the students of V Semester was held under the banner of IEEE students chapter as part of their annual technical event "ANKURA 2013".

Papers Published / Presented in Conferences



S Parameshwara, "Polyaniline Thin Film Transistors with SiO₂ and Poly (methyl methacrylate) as Gate" Indo-Canadian Symposium on Nano-Science and Technology at NIE, Mysore 20th to 21st February 2013.

S Parameshwara, "Performance evaluation of top contact PANI Organic Thin Film Transistors with SiO₂ and poly (methyl methacrylate) as gate dielectrics" International conference on Nano Technology (IEEE ICSD) at University of Bologna, Italy, 30 June to 4 July 2013.

C. Ajanappa, "Survey on Impulse Noise Removal Techniques in Digital Images" International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol 2, Issue 7, July 2013.

Dr. Rohini Nagapadma, Prof. Dept. of E&C, NIE and **S. Padmashree**, Associate professor GSSSIETW, Mysore "FPGA Implementation of Partitioned Iterated function systems applied to medical Images" has been selected in an International Conference to be held on Aug 2nd and 3rd 2013 at NITTE MEENAKSHI Institute of Technology, Bangalore. The paper will be Published in ELSEVIER Proceedings of the Conference.

About Electronics & Communication Engineering Association (ECEA)

The Electronics and Communication Engineering Association (ECEA) is recognized as one of the most efficient and popular associations functioning under the department of Electronics and Communication of NIE. The members of ECEA include the entire student fraternity of the E&C department. The association is credited with enhancing the intellectual productivity of students by organizing regular seminars and technical talks by eminent professionals in the field.

After being established in the year 1983 ECEA has grown from strength of 25 to about 250 students members. The activities of ECEA are multifaceted involving activities as varied as technical talks, technical contests to sporting and cultural events. Technical talks in diverse fields by eminent personalities are organized regularly in order to update the students on the latest technical advancements. ECEA also arranges visits to R&D centers, which helps the students to understand the practicalities involved. The association constantly encourages the student members of the association to take part in technical events arranged in other institutes.

In addition to these regular activities we also have an annual technical symposium "NIECEFEST" being conducted. This provides an excellent platform for the student to exhibit their talents in various fields such as programming, hardware designing, technical quizzes etc. Students from all parts of the country take part in this grand event.

As part of the extensive educational activities of ECEA a technical newsletter 'Samhita' is brought out biennially. One of the main goals in the release of Samhita is to increase the intellectual productivity of student community. Every issue of Samhita includes articles on the

recent breakthrough in the field of Science and Technology (esp. Electronics and Computer Science), events held under the auspices of ECEA, information about the placement activities and many more information thus catering to the needs of the students of all branches in general and our branch in particular.

Association Activities:



As a part of ECEA Inauguration 2013-2014 "A Technical Talk" by **Sri K. L. Jayaram**, Senior General Manager Telecom, BSNL Mysore was organized on 8th Bharat Ratna Sarvepalli Radhakrishnan Seminar Hall, NIE, Mysore.

Registration for Ph. D

S. Padmashree, Associate Prof, GSSSIETW and **Salila Hegde** Associate Prof, NIEIT are perceiving their Ph.D under the guidance of **Dr. Rohini Nagapadma**.

Technical Visit

The ECEA arranged an industrial visit to Master Controller Facilities (MCF) ISRO, Hassan for 22nd March 2013 for VII Semester students. **Nayana. G. H** and **Neha. N** accompanied the students.

Workshops Attended

C. Anjanappa attended workshop on "MATLAB for Research Computing" at Bangalore from January 28 to January 30, 2013

K. V. Nagalakshmi, M. S. Vijay Kumar, M. K. Vishwanath, Pawan Bharadwaj attended Workshop on "Embedded technologies" organized by Consortium of electronic industries of Karnataka, (CLIK), Mysore from February 15 & 16, 2013.

Kavitha S. S. and Ashwini D. S. attended one-day Faculty Development Programme on "Network Simulator-2(ns-2)" organized by the Departments of Computer Science and Engineering, Information Science and Engineering and PG studies in Computer Engineering & Applications of NIE on March 11, 2013.

Ashwini D. S. attended workshop on "ASIC Design Using open Source CAD tools" at NMIT, Bangalore from 12th March 2013 to 16th March 2013

C. Anjanappa attended workshop on "Challenge in Medical Imaging" at SJCE, Mysore on March 22 and March 23, 2013

S. Parameshwara attended seminar on "Nano Science & Technology" Department of Physics, JSS College for Women, Mysore on March 25, 2013

C. Anjanappa attended Workshop on "ASIC design using open source" EDA at VTU Regional Centre, Mysore from April 16 & 17, 2013

K. V. Nagalakshmi, Nayana. G.H., Kavitha. S. S, Ashwini D. S. attended a two-day workshop on "Computer Forensics" organized by department of Computer

Science and Engineering, Information Science and Engineering and PG studies in Computer Engineering & Applications of NIE, from 30 & 31 May, 2013.

Y.S Sumukha, S. Avinash and N. Suresh attended workshop on "Servicing & Calibration of Advanced Electronic Instruments" at S.J.C.E, Mysore from 10th June 2013 to 21st June 2013.

C. Anjanappa attended workshop on "Essentials of FPGA and XILNX FPGA Design" at PES College of Engineering, Mandya from 22nd July 2013 to 27th July 2013.

S. Parameshwara attended workshop on "IEEE International Conference on Solid Dielectrics" Bologna University, Italy, on 30th June 2013 - 4th July 2013.

Y.S Sumukha and S. Avinash attended workshop on "Recent Trends and Technologies on WEB" at NIE, Mysore on September 16 to 18 2013

S. Parameshwara attended workshop on "IEEE Workshop on Nano Technology and Sensors" at IISc, Bangalore on 19th to 21st September 2013.

All faculty members attended a two-day workshop on "Emerging trends in Nano electronics and Device Packaging" on 30th September and 1st October, 2013.

K. V. Nagalakshmi attended training programme on "Outcome based Accreditation", at VTU Regional Center, Mysore on 13th September 2013 & 1st October 2013 to 3rd October 2013

Students' Achievements

E&C team comprising of Sixth Sem students Varun A. M, Anoop T G, Vibha R., Ravikiran S. E. and Adithya S. won the zonal round of ROBOTRYST competition on September 23, 2013 and got selected for the national level finals held at IIT Delhi 26 February to March 2014.

Vipul Somanna P. N and Melroy Sequeira of fourth semester are working on a project in the "Solar Energy Applications" under Mr. K. Chandra Sekhar, Scientist-B, CNT-NIE, Mysore.

Sports NEWS



NIE Chess Team (Adithya S. and Ravikiran S. E., Fifth Sem EC) secured second place in the Mysore district inter collegiate chess tournament held in October 2013.

Adithya S, secured "Best player of Mysore" award in the Karnataka State Open Rapid Chess Tournament held on January 18 & 19, 2014.

Dharini V. (Captain of women's Throw ball team) and Mouna K. C. of fifth sem. E&C represented NIE women's Throw Ball Team in VTU Inter-collegiate Tournament in 2013 and Mahajana Throw Ball Tournament, secured 2nd place in both the tournaments.

Art & Culture



Sanjana Gogate a student of sixth semester is pursuing Indian cultural performing arts and music. Vidushi Sanjana Gogate has completed her Vidwat grade examination in the field of Bharatanatyam under Vidushi Kripa Phadke in 2013 & senior grade in Carnatic music vocal under Vidushi Bhagyalakshmi during 2011. She aims to continue in the field of performing arts and music along with higher studies in the field of Engineering.

Achievements:

- Sanjana has given her first public solo performance "Arangetrum" at the age of 10.
- Received scholarship from Karnataka Sangeetha Nritya Academy.
- Inter viewed by All India Radio Mysore in Makkala Mantapa.

Performances:

- Has given more than 300 Bharathanatyam solo and group programs at different places in Karnataka, Kerala, Maharashtra, Uttar Pradesh etc.
- Performed at "YUVA Dasara" and "Torch light parade" programme at Mysore during Dasara-2013 & 2014.
- Performed at VTU Fest "Udbhav"-2012.



Varuni. P. Rao secured 2nd prize in Carnatic Classical music competition and 3rd prize in Devaranama music competition conducted by 'Ganabharathi', Mysore on the occasion of 'Sri Krishna Jayanthi'