

E-SAMPARKA Newsletter

Department of Electronics and Communication Engineering
The National Institute of Engineering

(An Autonomous College under VTU, Belgaum & Accredited by NBA, New Delhi)

Issue 4 : December 2015

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-fledge department started functioning from the year 1987. The department is well equipped with modern laboratory facilities and good infrastructure.

The Department has Eleven major laboratories namely; Analog Electronics Lab, Digital Electronics Lab,

Communication Lab, Advanced Communication Lab, Microprocessor / Microcontroller Lab, Very Large Scale Integration Lab, Internet of Things Lab, Digital Signal Processing Lab, Advanced Signal Processing Lab, Programming Lab, Power Electronics Lab supported by latest Matlab R2016a, Tina V10 and Altium Designer Software Tools. Also we have separate Tutorial Room, Research and Development Lab and Project Room.

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.



Dr. Rohini Nagpadma

It gives me great pleasure that the Electronics and Communication Engineering Department, NIE is bringing 3rd newsletter etching every aspect of activities and events held in this session. 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.

Department of Electronics and Communication will be globally recognized that imparts high quality education and enables innovation, research and teamwork capabilities to students, whose graduates serve diverse needs of society.

Mission

- * To design academic curricula and activities to produce competent Electronics graduates
- * To develop acumen to absorb emerging knowledge and to Life-Long Learning
- * To provide group activities in the area of Electronics and Communication Engineering that enable innovation and teamwork
- * To interact with professional bodies and corporates in Electronics, Communication and IT sectors



Anusha Danday

I am pleased to present my first issue of newsletter of our department 'e-samparka', which serves as an attempt not only to record the events that have taken place during the semester, but also to highlight the achievements of the department.

I would like to congratulate all the students involved, for their hard work has definitely paid off. I would like to place on record my heartfelt thanks to all those who have contributed to make this effort a success.

Looking forward to a year filled with brighter tomorrow's, I wish all a successful year ahead.



NIECEFEST-2015



An Annual Technical Symposium-NIECEFEST -2015" has been organized by the Dept. of E&C on 16th and 17th April 2015 under Teqip-II ,A technical talk on "Mobile Computing" was delivered by Sri KeshavKarunakar, Vice-president, Mobile Apps, Path Partner, Bangalore.



Hobby Club



"Hobby Club"under ECEA was inaugurated by Mr. CHETAN M CHATRA ,Founder and CTO,Samatha Business Solutions, Mysuru On 15th October,2015,A Technical talk On"System Design" was delivered.



ECEA Inauguration



Electronics & Communication Engineering Association (2015-16) was inaugurated by B. G Mohan Krishna ,Senior Technology Architect, Infosys Mysuru on September 24th, 2015.



Short term Courses/Workshop organized



One-day Hackathan on Smart Metering organized by CTAT, NIE and L&T on14th February 2015.under Teqip-II.



Smart Innovation Exhibition



Smart Innovation Exhibition"has been organized by the Dept. of E&C on 24th April 2015, an event in which spot light was thrown on innovative projects of students.



Intel Galileo



Two-day Hands-on Intel Galileo was organized on 26th & 27th February 2015.under Teqip-II.



NIE E&C 1975 Alumni group felicitated Pragathi.P and Saravana. Sof VII Semester E&C for their academic excellence on 14th November, 2015.

A Technical Talk on "Real-Time operating Systems", has been delivered by Anantha Kashyap, Principal Consultant, Talent Transformation, Wipro, Bengaluru on 28th February 2015.

A Technical Talk on "Internet of Things (IOT)" has been delivered by Dr. Shyam Vasudeva Rao, CEO, Forus Health Pvt. Ltd, Bengaluru on 28th March 2015.

Workshops Attended

- * Dr.Rohini Nagapadma,K.V.Nagalakshmi attended two day FDP on "Speech Signal Processing And Its Applications"on 6th& 7th November 2015.
- * Dr.Rohini Nagapadma attended the "Meet of IEEE India Special Interest Group on Communications Disability" on 12th September 2015.

Papers Published/Presented

- * Dr.Rohini Nagapadma,"Area optimized high speed parallel architecture with internal pipelined structure for FIC on FPGA", (ISSN: 0973-7006).
- * Dr.Rohini Nagapadma, "Performance Comparison Of Image Compression Algorithms", 2nd International Conference on recent trends in signal processing, 15th& 16th May, 2015.
- * Dr.Rohini Nagapadma, Arshiya Banu, Nivedita A B," Innovative Coding Techniques for Medical Images",IJREAT,Volume 3,Issue 4.
- * Dr.Rohini Nagapadma, Narasimha Kaulgud, Salila Hegde, "Accelerating Huffman Algorithm using Multicore Platform", National Symposium on Instrumentation(NSI-40), October 30th-31st, 2015, Kumaraguru College Of Technology, Coimbatore.
- * K.V.Nagalakshmi, Dr.Rohini NagaPadma, Hareesh Gowtham J, Nagarat S V, Narayana R, "Detection of copy move forgery in digital Images",IJCMS Impact Factor 2.58, vol 4, Issue 10, ISSN 2347-8527.
- * C.Anjanappa,Narasimha Kaulgud,"Markov Random Field Based Medical Image Denoising" National Symposium on Instrumentation(NSI-40),October 30th-31st,2015.
- * C.Anjanappa,Dr.H.S Seshadri,"Comparitive Analysis of Efficient impulse noise removal techniques applied to Medical Images Based On Mathematical Morphology",IRJMS,vol.3(9),1-12,Sept 2015.
- * C.Anjanappa,Mukambika,Priyanka,Fernandez,"Digital Compass"IJSETR,vol.4,issue 10 Oct,2015.
- * S.M.Narasimhan "Implementation of Diagnostics Module in In-Car Infotainment System " ,IJSER,vol 6,issue 5,May 2015.
- * K.V.Nagalakshmi,Kavitha S,"Audio Processing in In-Car Infotainment System",IJERGS,Volume 3,Part-2,ISSN 2091-2731,May-June 2015.
- * S.Parameshwara,"Simulation of Top-contact Rubrene Organic FET with SiO₂ and poly(methyl) methacrylate as gate dielectrics,NCRIET-2015,7th-8th November-2015.
- * Shivaprasad K,Neha.N,Sadanand M Hegde,"Imaging For Concealed Weapon Detection",NCESCO-15,9th July 2015,GSSIETW.
- * Nayana G.H,"Automatic Toll Tax System",NCESCO-15,9th July 2015,GSSIETW.
- * Anusha Danday,Amulya N,"Blood Pressure Curve Simulator"NCESCO-15,9th July 2015,GSSIETW.

Students Publications/Presentations

- * B M Dheemanth, Bhargav, "AC appliance controlled by internet using Ethernet as web server for local network", National Symposium on Instrumentation, October 30th-31st, 2015. Kumaraguru College Of Technology, Coimbatore.
- * S Shashank, Nayan Kumar, V Rajath, "Smart Dustbin-Phase 1 of Garbage Management System". Inphase 2015, NIE, Mysuru.
- * Pooja V Kadam, Shravan S Rai, 'Ambulance Assisting Traffic System', Inphase 2015, NIE, Mysuru.



Students Achievements



Ms. Vibha Rakesh and Mr. Kiran VIII Semester, B.E Electronics and Communication Engineering have received the 2nd prize in the patrikaa-2015 state level paper presentation organized by NIECEFEST'15 on 15th April, 2015.

Ms. Vibha Rakesh won 3rd prize "Preparation of CZTS thin films by solar energy applications by Taguchi Method".

Industrial Visits

The ECEA arranged an industrial visit to MCF Hassan., on October 13th, 2015 for VII Sem students accompanied by Prusha Danday, Kavitha S.S, Sneha Sara Jacob and Aneetha Antony.



Visit to TT&C station @ MCF Hassan

The NIE-IEEE student branch organised a campus visit to IISC, Bengaluru., to provide an insight to the wide spectrum of recent advancement in Nano Science & Engineering.

An Institution visit with a brief about the recent technologies followed by "Pre Placement Talk" was organized for 7th semester students at Infosys, Mysuru on 14th August, 2015.



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