

e-samparka Newsletter

Department of Electronics and Communication Engineering
The National Institute of Engineering

(An Autonomous Institute under VTU, Belagavi & Accredited by NBA, New Delhi)

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 this newsletter etching every aspect of activities and events held in this academic 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.

Vision

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

Mission

- To design academic curricula and activities to produce competent, conscience and compassionate electronics graduates.
- To develop acumen to absorb emerging knowledge and to life-long learning.
- To provide scholarly group activities that enable innovation and teamwork.
- To interact with professional bodies and corporate in the communication and IT sectors.

From the Editor's Desk

Nayana G. H.

It gives me great pleasure to present this 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.



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Short term Courses / Workshops organized



One-day seminar on **MSP430** was delivered by Mr. Gurjit Singh, Director, Gill Instruments Private Limited, Bengaluru, held on September 5, 2014 for VI semester students.



One-day Faculty Development Program was organised on October 18, 2014. A seminar on **Enabling Electronics Innovation through Simulation** by Mr. S. L. N. Murthy, Head, Engineering Services, ASM Technologies Ltd., Bengaluru



A technical talk on **Laboratory Virtual Instrument Engineering Workbench (LARVIEW)** was delivered by Mr. Sunil Ekambe, Proprietor, VI Solutions, Bengaluru, held on November 7, 2014.



NIE E&C 1975 Alumni group felicitated Aditya.S and Sheetal K.Rao of VII Semester E&C for their academic excellence on November 22, 2014.



Electronics & Communication Engineering Association (2014-15) has been inaugurated by Mr. Ajish K. Abraham, Head, Electronics, AIISH, Mysuru, held on October 30, 2014.



Stack Project exhibition was held on May 11, 2014, Mr. Kasinathan, ALS, Bengaluru was the judge who decided the best stack project.

Papers Published

- Dr. Rohini Nagapadma and S. Padmashree, "Comparative Assessment of Fractal Image Compression with and without Neural Networks for Medical Images", Int. J. on Recent Trends in Engineering and Technology, Vol. 11, No. 1, July 2014.
- Dr. Rohini Nagapadma, Dr. H. V. Saikumar and Manjunatha O., "A Voltage-Controlled PFC Cuk Converter-Based PMBLDCM Drive for Air-Conditioners using FPGA"
- A Single-Phase Single-Stage High Step-Up AC-DC Cockcroft-Walton Voltage Multiplier with PFC Using FPGA Controller.
- Anjanappa C. and Dr. Sheshadri H. S., "Comparative Study of Noise Reduction Techniques in Medical Images", NCAREC-SP-016., RLJIT, Doddabalapura.
- S. M. Narasimhan, "Implementation of PLC for CNC Flame Cutting Machine", ijsr, July 2014
- Venugopal Chakravarthy and Uma Boregowda "A Hybrid Task Scheduler for DAG Applications on A Cluster of Processors", Vol. 3, No.3. ICACC 2014.
- Venugopal Chakravarthy and Uma Boregowda "A Framework for Multiple Parallel Task Graphs (PTG) Scheduler", Vol. 4. No. 3, ICIT2014.
- Narasimha Kaulgud, Spriha Deshpande, Swathi N. and M.D.Nandeesh "Image Denoising Using Wavelet Transform"
- Narasimha Kaulgud, Swathi N. and Spriha Deshpande, "Performance Measure of Multicore Systems for Orthogonal Transforms"

Students Publications

- Suhas S, Yashas M V, UdayaKulala G, shivakumar G and Dr. Rohini Nagapadma, "Implementation of Lifting Scheme on Fusion of Visible and Infrared Images", ICRTEECC-2014.
- Vibha R., Chandra Sekar Kanuru, G. L. Shekar, L. Krishnamurthy, R. Gopal Krishne Urs, "Surface Morphological Studies of $Cu_2Zn_nS_nS_2$ (CZTS) Thin Films by Thermal evaporation Method", Nano India 2015 - Sastra University.



An exhibition of mini projects by the students of VII Semester was held on under the ECEA activities.



Robominions, A two-day Inter College workshop has been organized by Innovation and Entrepreneurship Development Centre, on November 12, 2014 for students on Robotics.



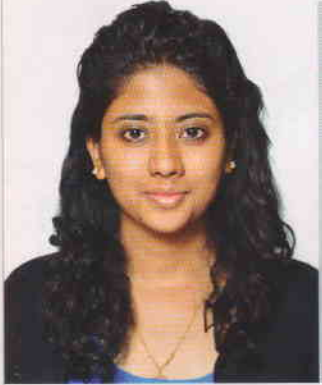
Industrial Visits

The ECEA arranged an industrial visit to L&T Technology Services Ltd., Mysuru on November 5, 2014 for V Semester students.



The ECEA arranged an industrial visit to ISRO Satellite Centre, Bengaluru on October 28, 2014 for VII Semester students.

Students' Achievements



Dharini V.

Dharini V., a student of VIII sem, achieved following events:

- Secured first place in Mysore City Inter-Collegiate Throwball Tournament on September 29, 2014 held at JSS Womens College, Mysuru.
- Secured First place in VTU Inter Collegiate Softball Tournament held at NIEIT, Mysuru from April 21-22, 2014.
- Secured 2nd place in VTU Inter Collegiate Throwball Tournament both in the year 2013-14 and 2014-15.
- Secured 2nd place in VTU Inter Collegiate Zonal Throwball Tournament from October 11-12, 2014 held at NIEIT, Mysuru.
- Secured 1st place in NIE Badminton Championships-2014 Women singles of NIE intramural Sports Activities.



Pooja V. Kadam



Sindhu S. Rao

Pooja V. Kadam, a student of IV sem, secured second place in Individuals Mysuru District Level Chess Open Tournament. She along with **Sindhu S. Rao**, a student of II Sem, placed Runners-up in Mysore City Inter Collegiate Tournaments Women Chess Championships 2014 held at Somani B.Ed College on October 9-10, 2014.



Raghunath



Rohan Devaiah K. A.

Raghunath a student of VIII Sem has won Mysore Inter College Weight Lifting Competition got third place and participated in VTU Weight Lifting Competition.

Rohan Devaiah K. A., a student of II sem, has won the third place in the event Half Marathon (21 kms) at the 17th VTU Inter Collegiate Athletic Meet held at VTU HQ, Belagavi in November 3-8, 2014.

Major Companies which recruited students of batch 2010-2014		
Sl. No.	Company	No. of Students
1	Cisco Systems Pvt. Ltd.	4
2	Airwatch	2
3	Aricent Group	5
4	Accenture Ltd.	5
5	AIG Analytics Ltd.	3
6	Century Link	1
7	Oracle	4
8	Robert Bosch	4
9	Siemens	1
10	Sonata Software	3
11	Sony India Ltd.	1
12	TCS Ltd.	1
13	Tesco	1
14	Yokagama	2
15	Delphi	4
16	Path Partner	1
17	Ernst and Young	1
18	FCS	1
19	HP (R&D)	1
20	IBM India Ltd.	1