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Chief Editor:

Parimala Gandhi G
Associate Professor & HOD
Dept. of ECE

Associate Editor:

Bharath Y.K.
Assistant Professor
Dept. of ECE

Dept. Association: RRaECE



The association of RRaECE is inaugurated on March 16th 2016. The association will be organizing various events like,

- ◇ Seminars
- ◇ Workshops
- ◇ technical talks etc.

In order to stay updated with the emerging trends and technologies.

HODs Message

“Success and failures are just stepping stones in education, in the end knowledge stands as prime, leaving everything else immaterial”



I am very pleased to present the newsletter “Vidyunmaana” of Electronics and Communication Engineering Department. Within the pages everyone will find news related to diverse activities of the department association and contributions from the faculty members and Students. I hope everyone will find this issue as exiting and interesting.

Message from the Department



It gives us an immense pleasure to present the current issue of the newsletter “Vidyunmaana” from the Department of Electronics and Communication Engineering. Globalization and increasing diversity in man’s needs has generated an enhanced demand for competitive skills and our focus is to train students to become autonomous learners, to provide students with an education that allows them to recognize and realize their ‘dreams’ and to ignite the passion to excel. Students are be given an environment wherein their attributes and strenghts are given a boost, their creativity developed and spontaneously nurtured.

Vision

To grow beyond leaps & bounds as an institute of par excellence in the arena of technical education developing human resources of high calibre with sound character.

Missions

- *To train the students to emerge as out-standing skilled technocrats imbued with professional ethics and managerial skills with commitment to the society and nation at large.*
- *To create centre of excellence in the field of Electronics with industrial and university collaborations.*

About the Department

The Department was established in the year 2010 with an ambition of providing high quality technical education in the field of electronics and communications. The department has the faculty strength of 14, who are well qualified and experienced and are aimed at preparing students to meet the global needs. The expertise of faculty ranges from the fields of network security, signal processing, optical communications, Fabrication of state of art semiconductor devices, computer control of drives, Artificial Intelligence, Electronic Instrumentation and control systems. The department is highly active in research for modelling and simulation of complex systems and developing embedded solutions for respective problems.

The Department is also been organising various national and international conferences, workshops and faculty development programs, facilitating the enrichment of knowledge and promotion of research interest.

➤ Course Details

- *UG - Bachelor of Engineering (BE) in Mechanical Engineering – 4 years.
Started in – 2010
Intake – 120*
- *PG – Master of Technology (M.Tech) in Digital Electronics and Communication – 2 years
Started in – 2013
Intake – 18*
- *Research Centre established in 2015*

Department Goals

➤ Long term Goals

- *Improve academic performance of students using innovative and creative methods of teaching to attain academic excellence by providing support for self-learning and modernize the laboratories in tune with the needs.*
- *Place teaching / tutorial material of each subject on the internet to enable students to browse at their own place of learning.*

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- *Conduct pre placement programs for students to acquire soft and hard skills to Achieve cent percent placement.*
- *Conduct International and National Level conferences in emerging areas of Electronics and Communication fields.*
- *Strengthen the department infrastructure and human resources towards R& D Activities.*
- *Establish and strengthen Industry-Institute interaction and be industry solution Providers by getting MoU's with various Multi-National Companies.*

➤ **Short term Goals**

- *Setup a Continuing Education Programs for Working Professional.*
- *To be among best institutes in the state and be recognized as the best department in research field and strive hard to meet the social, ecological and ethical needs of the region.*
- *Development of projects for the automation of various departments.*

Activities in the Department

❖ **Workshop on Image Processing**

To bring an exposure in the field of Digital Signal Processing, one day workshop on Image Processing using MATLAB was organized on March 16th 2016.

❖ **Teachers Day Celebration**

As mark of respect, and to recognise teachers contribution to the growth of student. A teachers day celebration was organized by students on September 5th 2016.

❖ **Workshop on Career Awareness**

A Workshop was organized in association with "Vani Institute" on career awareness path for higher education on September 22nd 2016.

❖ **Guest Lecture Delivered**

Guest Lecture on "Path for Higher education" delivered by Mrs Anshu Deepak at RRIT on 22nd September 2016.

❖ **Industrial Visit**

To give students an exposure to the industrial world, an industrial visit was conducted and the students visited KGTTI on September 24th 2016.

❖ **Conference Attended**

Students of Vth and VII th sem attended International Conference Embedded System on "Automotive and Avionics" at BIEC Bangalore on September 21st & 22nd 2016.

❖ **Parents Teachers Meeting**

A meeting for 3rd, 5th and 7th sem students parents was organised by the department in the month of September to discuss about the performance of the students.

Departmental Achievements

❖ Semester Toppers

4th Year



Megha D
1RI11EC050
77%



Mahalakshi .B
1RI12EC025
73.25%



Siddarth B
1RI12EC059
74%

3rd Year



Saritha .C
1RI13EC050
74%



Bhavana V Pawar
1RI13EC014
73%



Bhavya Shree G
1RI13EC015
71%

2nd Year



Manjunath G
1RI14EC040
71%



Jyothi M
1RI14EC020
68%



Sreekanth .R
1RI14EC054
70%

1st Year



Ashwani
1RI15EC006
8.16 SGPA



Lakshmi M S
1RI15EC019
7.86 SGPA



Sandhya B M
1RI15EC040
7.2 SGPA

❖ Student Achievements

- Chaitra , Bhavya Shree, Meenu Ghar, A Swathi, of VII sem participated and got 3rd place in the state level workshop on networking “Techathon 2K16” organised at RIIIT campus Mysuru on Nov 5-6th 2016.
- Ms Gagana has been selected as Miss YUVA at the programme organised by Radio Mirchi Big FM 92.7.

❖ Faculty Achievements

Cent percent results were obtained by the faculty in the corresponding subjects,

- Mrs Anshu Deepak – Management and Entrepreneurship
- Mr. Chandrakumar – Error Control Coding
- Dr. Manoj Priyatham – Advanced Computer Networks

Papers Published in 2016

1. Suhas A R, Arun T V, Lathesh L, "Substation Automation System", *International Journal of scientific and Engineering Research*, ISSN: 2229-5518, Page no:- 215 to 218, Volume 7, Issue 5, May- 2016.
2. Premsagar H, Renuka, "Sea Ice Floe Detection and Classification using Adaptive Clustering", *International Journal of Scientific and Engineering Research*, ISSN: 2229-5518, Page no: 241 to 245, Volume 7, Issue 5, May- 2016.
3. Parimala Gandhi, Nagaraj, Sapam Hema Devi, "Designing Fuzzy Logic controller For Auto Landing of Flight", *International Journal of Scientific and Engineering Research* ,ISSN: 2229-5518, Page no:- 231 to 237, Volume 7, Issue 5, May- 2016.
4. Chandrakumar H S, Tejaswini M R., "Robust Face Detection And Person Recognition Using Gabor Texture And Multiblock LBP features", *International Journal of Scientific and Engineering Research*, ISSN: 2229-5518, Page no:- 210 to 214, Volume 7, Issue 5, May- 2016.
5. Chandrakumar H S, Ninisha Antony, Sneha K Suresh, Pratyusha K, "Embedded Human Control Of Robots Using MEMS Technology", *International Journal Of Recent Advances in Engineering and Technology*, Page no:- 80 to 82, Volume 4, Issue 9, May- 2016.ISSN:2347-2812
6. Parimala Gandhi G, Naveen N Padi, Nagaraj, "Bibliographical Review on Fuzzy Interference Model", *International Journal Of Recent Advances in Engineering and Technology*, Page no:- 140 to 144, Volume 4, Issue 9, May- 2016. ISSN: 2347-2812
7. Dr. Manoj Priyatham M, Madhukesh S, " Locker Security System Using RaspberryPi", *International Journal Of Engineering Research in Electronic and Communication Engineering*, Page no:- 127 to 132, Volume 3, Issue 6,June- 2016. ISSN: 2394-6849
8. Dr. Manoj Priyatham M, Madhukesh S, Bharath D B, Chandhan N, Pavan R, "Vehicle Tyre Pressure Monitoring System", *International Journal Of Engineering Research In Electronic and Communication Engineering*, Page no:- 133 to 137 , Volume 3, Issue 6, June- 2016.ISSN :2394-6849.
9. Dr. Manoj Priyatham M, Pavithra M, "A New Global Transmit Energy Balance Approach to Improve Lifetime", *International Journal of Recent Advances in Engineering and Technology*, Page no:-106 to 112, Volume 4, Issue 9, May- 2016.ISSN:2347-2812.
10. G. Parimala Gandhi, Nagaraj R "Robust Flare Phase Auto Landing of Aircrafts, based on Modified ASBO" *Internation Conference of Frontier in Intelligent Computing Theory and Application-16 5th International Conference Volume 5 September 2016*, pp. 56-57.
11. Bharath Y.K, Chitralkha G, Veena S, Loksha H, Nagalakshmi K.V, Dilna U, "Robust Active Noise Control System for Fighter Aircraft Pilot Helmet Application", *Elsevier's Procedia Computer Science*, Vol. 89C, pp 690-699.

❖ Total no. of papers published by students: 46

❖ Faculty Performa:

- Total National/International Conferences attended: 86
- Workshops attended: 28
- Papers Published in Journals: 45
- No. of Books published: 11

Welcoming New Faculties

1. *Dr. Manoj Priyatham, M.Tech, D.Phil – Joined in February 2016.*
2. *Dr. Shipra Upadhyay, M.Tech, PhD – Joined in August 2016.*
3. *Mr. Bharath Y.K, M.Tech – Joined in September 2016.*

Events Planned

- ✚ *A Faculty Development Programme on Microprocessor Lab will be organized on January 23rd 2017.*
- ✚ *One day seminar on Artificial Intelligence and its Application*
- ✚ *One day guest lecture on April 20th 2016.*
- ✚ *One day work shop on Low Power VLSI on March 22nd 2016.*
- ✚ *International Conference on Current Research on Embedded, Information and Communications Technologies (ICEICT 2K17) is being will be held at RRIT in association with IRDI in May 4th-5th 2017.*
- ✚ *International Conference on Energy, Power, Communication and Computing Systems (ICEPCS – 2017) will be held at college in association with IRD India and SMIT on May 13th-14th 2017.*

Gallery



Workshop on Image Processing



Teachers Day celebration



Workshop on Career Awareness



Guest Lecture by Mrs Anshu Deepak



Industrial Visit to KGTTI



Students attended ICESAA Conference at BIEC



Parents Teachers Meeting



Students won 3rd place in "Techathon 2K16"



National Conference ASSET-2016



Ayudha Pooja celebration



MERAKI – Project Exhibition



Faculty participation in Kalataranga 2016