



# Encircle



Vol 1

ECE News &amp; Events

November 2014

## From ED's Desk . . .

It gives immense pleasure to flag-off the first edition of the newsletter "Encircle" of the department of Electronics and Communication Engineering, highlighting the activities of the period 2013-2014. It is endeavor of the department to articulate the newsletter with various informations to acquaint its readers with the achievements of the ECE fraternity. The laudable exercise of the students and staff of this department has already brought laurels in various corners of this institution.

I applaud the staff and students for this achievement and wish that everyone continue their untiring efforts not only to retain this achievement but to grow to further high standards. Also, congratulate head of the department for taking initiative in releasing the first newsletter.



Dr. G. Mohanachandram

## From Principal's Desk . . .

Of the three 'R's, Reading, WRiting and ARithmetic, though each is important on the road of literacy, writing enjoys a special position. Writing is often necessary to clear the air. Writing makes ideas permanent; it is for posterity. It is often used for self-corroboration, to bring clarity. Writing helps decision making. It is a reminder, a medium via which positive ideas can be conveyed. It can be used to take others into confidence and to give confidence. The reader on seeing things in writing, is more influenced, develops better understanding of the writer and more importantly in the college context attains more confidence in the information conveyed.

Hence, it is with great pleasure that the institution greets the newsletter released by the department of Electronics and Communication. I extend all support and hope that the efforts will be continued in the coming days as well. Using electronics for communication becomes literally true via this endeavour. Congratulations!!



Dr. Sudha Balagopal

## From HoD's Desk . . .

It gives very content that as a forerunner the department of Electronics & Communication Engineering is releasing its first issue of "Encircle" newsletter. The major strength of the department is the amalgamation of our qualified and dedicated faculty who understand the rhythm of the students for their academic excellence. Our under graduate and post graduate program students are equally showing their enthusiasm towards extracurricular and co-curricular activities contemplate them towards placement and higher education.

The contribution congregate on planned actions executed during the year 2013-14 by committed faculty, lab technicians and students are really appreciable. Further, it gives satisfaction to bring out the update information about the department newsletter blended with technical and non-technical segment that is rich in contents. With this bright vigor and enthusiasm, let's us look forward for further progress of our department academic objectives set for the year 2014-15. On this occasion we invite the alumni of ECE to come forward with new conceptual ideas towards department growth. Finally, deptpartment would like to convey sincere thanks to the management for their continuous support and admiration.



Dr. S. Swapna Kumar

## Our Vision:

Progress through the growing knowledge of Electronics and Communication technology.

## Our Mission:

To emerge as a world class center of learning, research and development, integrating with the latest trends in Electronics and Communication Engineering for the service of humanity.

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## DEPARTMENT ACTIVITIES

### 1. National Conferences

The Department of Electronics and Communication Engineering organized a two day National Conference on Communication Networks (NCOCN'10) and (NCOCN'11) in association with ISTE. Sixty papers were selected and presented in the field of communication.



**NCOCN 09**



**NCOCN 10**



**NCOCN 11**

### 2. Faculty Development Programme

The Department of ECE conducted a two day FDP on Keil and ARM Microcontrollers on 26<sup>th</sup> and 27<sup>th</sup> of September 2014.



**Two day FDP on Keil and ARM Microcontrollers**

### 3. GRADUATION CEREMONY 2013

Vidya Academy of Science and Technology conducted "Graduation Ceremony 2013" of 2009-13 Batch on 22, June 2013 in the College Auditorium. Dr. Gangan Prathap (Director – NISCAIR, New Delhi) was the guest of honour on the occasion. The ceremony commenced with a ritualistic academic procession. Dr. Sudha Balagopalan (Principal) welcomed the participants. Mr. A.P.Sadanandan (Former Vice-Chairman, VICT), the president of the function distributed the course completion certificates to the 104 students.

### 4. GATE

Coaching classes for GATE-2015 started on Saturday 29<sup>th</sup> June 2014, by Mr. Shiju Aravindhakshan. This is continued throughout the academic year.

### 5. INDUCTION PROGRAMME

Induction programme for first year students of ECE Dept. held on 25<sup>th</sup> July, 2013 at main seminar hall.

### 6. M Tech

The inauguration of the newly sanctioned M-Tech course in Embedded Systems, to Department of Electronics and Communication Engineering was held on 24-09-2013 at VAST. Dr. Krishnakumar, Professor, FISAT inaugurated the function and delivered a keynote address.

### 7. ECE ASSOCIATION PROGRAM 2013

The inauguration of "ECE Association" was organized by ECE department, was held on 7-10-2013 in the college auditorium. Ms. Latha Kumari (Assistant General Manager, Mangalapuram airport) inaugurated the function. Mr. Pranav T.P. (S7 ECE-B) delivered the welcome speech. Presidential address was delivered by Ms. Jeeva K.A.(H.O.D. ,ECE department). Principal, Dr. Sudha Balagopalan and Dr.P. Pratapachandran Nair (Professor Emeritus) felicitated. Departmental achievements of various students were presented. The official inauguration of logo was done by Ms. Latha Kumari.



## 8. Tech-Fest – VYVIDH 2014

Vidya Academy of Science and Technology conducted the Tech-Fest VYVIDH 2014 on 07<sup>th</sup> and 08<sup>th</sup> of March 2014. The event was inaugurated by Air Commodore Mr. C.B. Shenoy in an official ceremony conducted on 7<sup>th</sup> March 2014. ISRO pavilion, Cost Guard pavilion, Art exhibition of students and all department exhibitions were shown to public including school students. Different departments organized technical events. The award for the department level exhibition competition was bagged by ECE. Department of ECE got first place in overall performance, compared to other departments

## 9. CASTALIA'14

The Students' Chapters of the Institution of Engineers (India), Institution of Electronics and Telecommunication Engineers and Indian Society for Technical Education with Department of ECE of VAST jointly organized CASTALIA'14 on 2<sup>nd</sup> April 2014 in VAST, Thrissur. In CASTALIA'14 Project Expo and Paper Presentation was organized. There are 39 teams for project Expo and 10 team for paper presentation. Cash Prizes and certificates were distributed.

## STAFF PARTICIPATION

### Srinivasa Ramanujan Mathematical Competition (ISTE SRMC 2013-14)



Mr. Santumon S.D



Mr. Shiju Aravindakshan

The staff members Mr. Shiju Aravindakshan and Mr. Santumon S.D excelled in Srinivasa Ramanujan Mathematical Competition (ISTE SRMC 2013-14) by winning prizes in Zonal Level.

## WORKSHOPS

### 1. One day workshop on “LaTeX”

A one day workshop on “LaTeX” was organized by ISTE VAST Chapter on 15<sup>th</sup> February, 2014 in the advanced computer lab. The programme was inaugurated by Principal Dr. Sudha Balagopalan. Prof. K V Leela, Secretary, ISTE VAST Chapter, felicitated the gathering. The resource persons for the workshop were Dr. V N Krishnachandran (Vice Principal and Head of the Department of Computer Applications) Dr. K B M Nambudiripad (Visiting Professor, Department of Mechanical Engineering). 16 faculty members from ECE participated in the workshop. All participants were issued participation certificates and the copies of the LaTeX software. The following staff member Dr. S. Swapna Kumar, Mrs. Jeeva K.A., Ms. Swapana E.V.M, Mr. Sojan Francis, Mrs. Jemy Jose Kakkassery, Mrs. Resma Madhu, Mrs. Sandhya V.G, Mrs. Amritha Babu, Mrs. Honeymol P.K, Mrs. Sleebi Divakaran, Mrs. Fetsy K. Francis, Mr. Santumon S.D and Mrs. Sarika.K.T from ECE Dept attended the workshop.

### 2. One day workshop on Support Vector Machines

Dr. S. Swapna Kumar (Prof & Head of Dept ECE) attended the one day workshop on Support Vector Machines: Theory and Applications conducted by department of Electronics and Communication Engineering, College of Engineering, Trivandrum on 18/01/ 2014.

### 3. Hands on Training in OrCAD

The Student's Chapters of Institution of Engineers (India), Institution of Electronics and Telecommunication Engineers and Indian Society for Technical Education with Department of ECE, VAST jointly organized “Hands-on Training in OrCAD on 11<sup>th</sup> and 12<sup>th</sup> January, 2014. The resource person for the workshop were Mr. Ramesh C R (Asst.Prof Dept.of ECE).

### 4. Two Day Workshop on “Embedded System Design”

The Dept. of ECE in association with IETE and IE(I) conducted a Two Day Workshop on “Embedded System Design with hand-on training on PIC MCU Development Board” during 5<sup>th</sup> July 2013 and 6<sup>th</sup> July 2013. The workshop was inaugurated by Mrs. Lyla B Das (Asso Prof, NIT-C). Mr. Peeyush K P (Asst Prof, Amritha Engg. College) handled the hands-on sessions. Participants from C-DAC, NIT, IES Engineering College, Sahrdaya Engineering College MEA Engineering College and Sreepathy Engineering College attended the programme.

### 5. Two day workshop on “Research Methodologies and Computational Mechanics”

The Centre for Computation in Science and Engineering – VAST organized a 2 day workshop on “Research Methodologies and Computational Mechanics” from June 20- 21, 2013. Dr. Gangan Prathap (Director, NISCAIR, CSIR, New Delhi) handled the sessions. In the inaugural session, Dr. V N Krishnachandran (Vice-Principal, VAST) welcomed the gathering and Dr. Sudha Balagopalan (Principal, VAST) presided over the function. Dr. Gangan Prathap formally inaugurated the workshop. Dr. P Pratapachandran Nair (Professor Emeritus, VAST), Dr. K B M Nampoothiripad (Visiting Mech. Engg, VAST) felicitated on the occasion. Dr. Mannil Mohan (Dept. of Applied Sciences, VAST) proposed the vote of thanks. There were 45 participants including faculty members and M Tech students from VAST and neighboring engineering institutions.

### 6. Workshop on Embedded System Design with Advanced Microcontrollers

Mrs.Viji Vinodan and Mrs.Sarika P.C Gr-II instructor of ECE dept. attended a two day workshop on Embedded System Design With Advanced Microcontrollers at Royal college of Engg. Technology, Akkikavu on 8<sup>th</sup> and 9<sup>th</sup> March, 2014.

## TRAINING PROGRAMMES

### 1. STTP on Software for Engineers

Ms. Sleebi K. D (Asst Prof, Dept of ECE) attended an open source 3 day STTP on software for engineers at GEC TCR, from 17 to 19 February 2014.

### 2. “Effective teaching methodologies”

Mrs. Honeymol P.K, Mrs. Sleebi K.D (Asst. Professors of ECE) attended the induction training programme on “Effective teaching methodologies” organized by ISTE VAST chapter during 25<sup>th</sup> to 30<sup>th</sup> Nov 2013 at VAST campus.

### 3. Short term training programme on “Modern Aspects in Digital Signal Processing”

Mr. Santumon S.D (Asst. Prof, Dept of ECE) attended the AICTE sponsored short term training programme on “Modern Aspects in Digital Signal Processing” organized by Department of Electronics Engineering, College of Engineering, Cherthala held during 13<sup>th</sup> to 26<sup>th</sup> November 2013.

### 4. “FDP in Entrepreneurship” 2013

Ms. Swapna E.V. M (Asst Prof, Dept of ECE) attended “FDP in Entrepreneurship” 2013 conducted by technology business incubator of NITC during period 4 Nov 2013 to 16 Nov 2013.

### 5. Early career Faculty Development programme

Early career Faculty Development program from 4<sup>th</sup> to 8<sup>th</sup> November 2013 was organized by VAST in association with GOLD IEEE Kerala Section . The following faculty members Mrs. Divya Unni, Mr. Ashok N, Mr. Varun Kesav, Mrs. Honeyamol P. K and Mrs. Amritha Babu attended the programme.

### 6. Induction training Programme

Mrs. Sandhya V.G (Asst. Prof.Dept.of ECE) has attended 12 day induction training by facilitators from M/s. NTT from July 8<sup>th</sup>, 2013 to July 20<sup>th</sup>, 2013, held at VAST.

### 7. FDP on Linear Algebra and Applications

Mr. Santumon S D (Asst. Professor) has attended MHRD-AICTE Sponsored Faculty Development Programme on “Linear Algebra and Applications” at NIT, Calicut on 07-07-2013 to 13-07-2013.

### 8. Training program in embedded systems on “Electronic Packaging & PCB Design

Mr. Anil. M (Asst. Prof. Dept. of ECE) attended a two week advanced training program in Embedded systems on “Electronic Packaging & PCB Design” during June 24<sup>th</sup> to 5<sup>th</sup> July 2013, organized by C-DAC Hyderabad sponsored by Ministry of Human Resource & Development.

### 9. FDP on CMOS VLSI DESIGN

Mr. Ramesh C.R (Asst. Professor Dept. of ECE) has participated in the AICTE sponsored FDP on CMOS VLSI DESIGN conducted at NIT-C from 23<sup>th</sup> to 29<sup>th</sup> June 2013



**LAURUS & the Premier Book Launch Function of the "Electronic Circuits Lab Manual" authored by Mr. Ramesh CR.**

### 10. MATLAB and Signal processing

Mr. Ramesh C.R (Asst. Professor Dept of ECE) participated in the ISTE sponsored FDP on MATLAB and signal processing conducted at Sahrdhaya College of Engg. and Technology, Kodakara during 13<sup>th</sup> to 17<sup>th</sup>, May 2013.

### 11. STTP on Mathematics for Signal processing

Mr. Santumon S D (Asst. Professor) has attended a Short Term Training Programme on “Mathematics for Signal Processing” Sponsored by FSDT at GEC Thrissur on 11-02-2013 to 15-02-2013.

### 12. FDP on “Numerical And Scientific Computation For Engineers”

Mr. Shiju Aravindhakshan and Mr. Santumon S.D (Asst. Professors) have participated in the faculty development programme on “Numerical And Scientific Computation For Engineers” organized by the department of Electrical and Electronics, VAST, Thrissur from Jan 2<sup>nd</sup> to 4<sup>th</sup>, 2013.

### 13. ISO Training Programme

Mr. Anil M , Mr. Rajesh G R and Mrs. Sarika P C had successfully completed the assessment for the Quality Management System- Internal Auditor Training Course (based on ISO 9001:2008) conducted during 26- 27, April 2013 by Bureau Veritas.

### INTERNATIONAL CONFERENCE PAPER PRESENTATION

Ms. Reshma V. C has participated in the Seventh International Conference on Smart Materials Structures and Systems, held during July 08<sup>th</sup> to 11<sup>th</sup>, 2014 at the Indian Institute of Science, Bangalore and presented a paper in the poster session of the conference.

### In International Conference on Communication and Signal Processing 2014

1) A paper titled "A channel Coder Design for a High Speed and Less Complex Communication System using QC - LDPC Codes" authored by Ms. Sarika. KT (Asst Professor, Dept of ECE) presented in International Conference on Communication and Signal Processing 2014 ( ICCSP 2014) at Adiparasakthi Engineering College, Melmaruvathur, Tamilnadu on April 11th, 2014.

2) Dr. S. Swapna Kumar (Prof & Head of Dept ECE) presented a paper on “Energy efficient data aggregation of heterogenous network using metaheuristic” in NCWCNS'14 organised by sensor networks research group, department of ECM,KL University, Guntur on march 7<sup>th</sup> and 8<sup>th</sup>, 2014.

### National conference on VLSI and Communication

Dr. S. Swapna Kumar (Prof & Head, Dept of ECE) attended the national conference on VLSI and Communication as program session chair at Mets School of Engineering on 05th, April 2014.

### IEEE Sponsored international conference

Mr. Rakesh V.S (Asst.Professor Department of ECE) presented a paper on “Electronic Water Supply Management System for Educational System” on March 2013 at St.Thomas college of Engg. Pala.



**M-Tech First Rank Holders****Mr. Santumon S D**

Mr. Santumon S D has secured First Rank and Gold Medal in M.Tech – DECS from Visvesvaraya Technological University, Belgaum.

Mr. Anil M has secured First Rank and Gold Medal in M.Tech – Nano Technology from Anna University.

**Mr. Anil****STUDENT ACHIEVEMENTS****IETE Student Chapter Inauguration**

Anjana Sasidharan (S5 ECE-A Batch) had been selected for Pre Republic Day camp held on 1<sup>st</sup> to 10<sup>th</sup> Oct 2014. The interview and selection was held on CUSAT open auditorium. Only 3 girls and 3 boys were selected from NSS Tech cell Kerala.

Ms. Anjitha V (2006–2010 Batch) has secured Third Rank in B.Tech from Calicut University

**Anjitha V****CAMPUS PLACEMENT****1. Tata Consultancy Services (TCS)**

The students of our department Aparna M P, Caroline Alex, Athira Satheesh batch (2010 P.O) Aneesh Menon, Mithun Devanand, Shilpa CT, Harish K, Aswathy M Arun, Varsha M D, Najiya Gaffoor, Savithry J, Veena Jayasankar, Renjima Shenoy, Aswathy, Gayathri Jayadevan, Nayana K G, Anusha Venu, Vivek Ouseph have got campus placement in the campus recruitment drive conducted by Tata Consultancy Services (TCS) from ECE.

**2. Cognizant Technology Solutions (CTS)**

The students Anu Mohan, Vishnu S, Deepa N, Shreya Dineshkumar and Shital Sathish have been selected in the

Campus Recruitment Drive conducted by CTS at Rajagiri School of Engineering and Technology, Kochi.

**3. Bixton IT solutions**

The students Pranav T P, Sandra Prasad and Malavika P M of S8 ECE got placed in Bixton IT solutions.

**4. Poornam Infovision**

The students Arun Menon, Ashy Sillep, Anagha C and Pranav T P, received confirmation mails from Poornam Infovision Pvt. Ltd.

**GATE 2014 Result**

The students Anusha T Venu, Aparna M, Anjali T K, Revathy PS, Shital K Satheesh, Sandra Prasad, Gayathri Jayadevan, Pranav T P, Aswathy M D and Anagha R Menon excelled in GATE-2014.

**TOTAL PLACEMENT: 32 OUT OF 104 ( 30.7%)**

**D-Zone Arts Festival Achievements**

Students from VAST participated in the D-Zone Art Festival of the Calicut University held at Sri. C. Achuthamenon Government College, Kuttanellur during 31<sup>st</sup> January and 01<sup>st</sup> and 02<sup>nd</sup>, February 2014. Eminent dancer Kalamandalam Kshemavathi inaugurated the stage items at the festival. The following students won prizes for several items as detailed below :

Item and Prize	Name of Student
Group Song (Western) – Third	Naithan C Benjamin (S8)
Sanskrit Story –First	Anju Sukumaran (S4 ECE)
Triple Drum –Third	Naithan C Benjamin (S8 ECE)
Mapilapattu Girls –Third	Gismi Subhash (S1S2 ECE)
Rangoli –First	Savithry (S8 ECE)
Tamil Essay Second	Kavitha (S4 ECE)

**Calicut University Inter Collegiate Tennis Tournament Achievement**

College Tennis team (Women) participated in the Calicut University Inter Collegiate Tennis Tournament held at Christ College, Irinjalakuda and secured the SECOND position.

**Inter Branch Football Tournament**

Department of ECE won the Inter branch football tournament by defeating MES College.

**AION-2014**

The National Science Day of Vidya Academy of Science and Technology, Science-Fest: AION- 2014 was celebrated on 17<sup>th</sup> Feb 2014. The programme was organised for the S1- S2 students of the college by the Departments Applied Sciences, Humanities and Physical Education with cooperation and support from all other departments. Students from first year ECE presented papers on the National Science Day. Dr. N V P Kiran Kumar, Scientist (Space Physics Laboratory, VSSC, ISRO, Trivandrum) inaugurated the



programme. Dr. Kiran Kumar gave a talk entitled "Atmospheric Science: A Rendezvous of Engineering with Science"



### Calicut University Yoga Championship

College Yoga team (Women) secured third position in the Calicut university Yoga Championship held at Prajyothi Nikethan College, Puthukkad on 5<sup>th</sup> Feb 2013. There were 12 teams in the Championship. Awsathy M Arun of ECE (2010 admin) is selected to represent Calicut University Yoga team to participate in the All India Inter University Yoga Championship to be held at Sourashtra University



Rajkott on 18th Feb 2013. Team Members were participated from ECE Aswathy. M. Arun (S6), Ashy Dileep (S6) Theertha Gopinath (S6), Anu Mohan (S6), Fathima Shadha (S4)



### TECH FEST



Robowar (conducted by ECE) in Techfest

Mr. Pranav T.P and Mr. Sijin C Jhonson (students of S6 ECE-B Batch) attended a 3 day short term course on "Introduction to VLSI Design and PCB Design using ORCAD" held during Dec 12<sup>th</sup> to 14<sup>th</sup>, 2012 at Veda Vyasa Institute of Technology, Ramanattukara, conducted by NIELT Calicut.



### ONAM CELEBRATION

Onam was celebrated this year differently by providing food for the inmates of Swasrya Kuttoor in commemoration of Salini Krishnakumar (2012 admission) the departed Soul.



Onam celebration at Reach Swasrya Kuttoor

### A song with tribals @ Kalchadi Palakkad



Entertainment activities held at Kalchadi Palakkad under the banner of NSS

### TOPERS OF 2010 - 2014 BATCH



Aparna M D Gayathri Jayadevan Najiya Gaffor

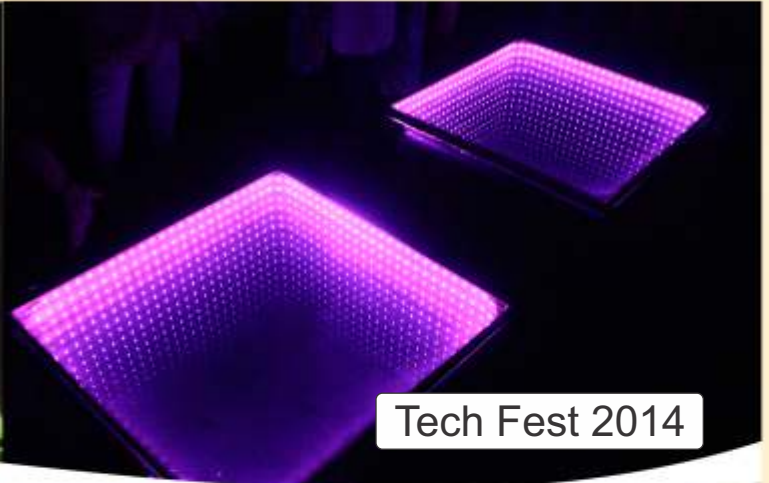
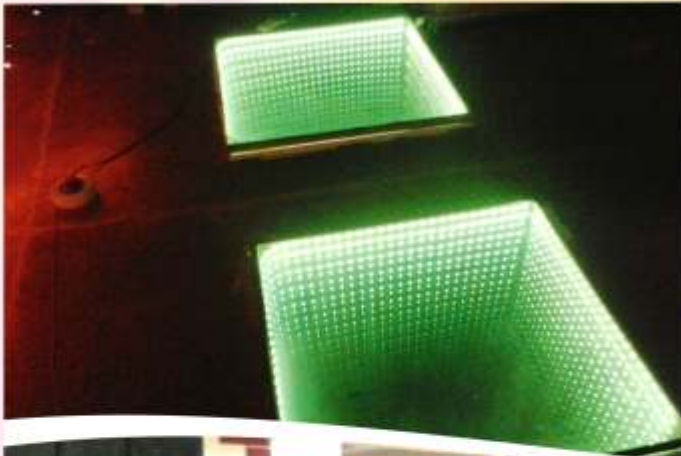
### ECE Members

ECE Members	Total Numbers
Teaching staff	24
Lab staff	7
1 year students	107
2 year students	137
3 year students	120
4 year students	129
M Tech 1 <sup>st</sup> year	23
M Tech 2 <sup>nd</sup> year	10

Total number of faculty = 31

Total number of students = 526





Tech Fest 2014



Art Fest 2014



Art Fest 2014



Art Fest 2014



Tech Fest 2014



Sports Day





## Table Tennis



## SAD DEMISE....



Dr.E.Chandrasekharan  
HoD ECE (29.08.2008)



Mrs.Rejula.T  
Lecturer ECE (25.11.2008)



Ms.Beebija  
ECE (2007 admin)



Mr. Harichandran  
ECE (2012 admin)



Mr.Arun.T  
ECE (2007 admin)



Ms.Salini Krishnakumar  
ECE (2012 admission)



## Major Sunish R C

Student of (2006-10 Batch). Joined the prestigious Indian Military Academy, Dehradun, and now Lieutenant Officer.

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