



Vol 3

ECE News & Events

November 2016



From Principal's Desk . . .

Quite a lot of discussion is happening in academic circles around the theme of 'Student Centric Learning'. According to the internationally renowned scientist Dr. Gangan Prathap, this mode of learning is when- "Teachers don't teach; and students learn". Recently he sent us an article from a journal in which an engineering college claimed such a mode of learning by their students as they consciously went through the entire process of learning, when they collected data, analysed and made observations, surveyed methodologies, chose a few that could be implemented, designed and carried out experiments, came up with solutions to address the problem, and brought up some more problems that kept their investigations live. I noticed the same thing with respect to the non-curricular projects our students are doing all around the college, be it as a part of the ED Club or NSS or our LET projects. The students are learning more and more technologies and improvising remarkably and explaining the reasons and their thought processes very effectively.

In such a context such newsletters will have a lot to report and that day is already upon us. Let me hope that our attempts will also rise to the occasion. Let me appreciate the toil and sweat and the brain work and artistic contributions in the newsletter and all who contributed to put it up.

Dr. Sudha Balagopalan
Principal



From HoD's Desk . . .

VAST has been carving each department in a distinct niche way for giving the value of engineering education. Also, beyond the book knowledge it provides mental, physical, emotional and social development of everyone to preserve the value of life.

The department of Electronics and Communication Engineering believes that it is their endeavor to shape well-groomed personalities that will positively contribute to society. This year department released ongoing newsletter volume of "EnCircle" which is embedded with remarkable attainment of those who contributed with their potential. I am very thankful to all my colleagues who strived hard to maintain the newsletter of the department and believe that show will be on always.

Let me express my sincere gratitude to the management for their constant source of inspiration and support.

Dr. S. Swapna Kumar
Head- ECE



Department Activities

FDP on Sensors & IoT based Embedded Systems :



Dr. Jagadeesh Kumar, Professor, EED, IIT Madras Handling session on the topic "Bio-Sensors its applications & future trends and scope"

Department of ECE organized a 5 Days Faculty Development Programme on Sensors & IoT based Embedded Systems in association with Association of ECE, The Institution of Electronics and Telecommunication Engineers, The Institution of Engineers(India), The Indian Society of Technical Education on 27th June - 1st July 2016. Resource Persons are Dr. Jagadeesh Kumar V(Prof., Dept. of Electrical Engg., IIT Madras), Dr. Barathram Ramkumar(Asst. Prof., School of Electrical Sciences, IIT Bhubaneswar) Mr. Jery Daniel (Joint director, C-DAC, V.K Bhadran, Associate Director, C-DAC), Dr. D. Sivaraj (PSG College of Technology, Coimbatore) and Mr. Peeyush K.P (Amrita Vishwa Vidyapeedham, Coimbatore Campus).



Interaction of participant with Dr. Bharathram Ramkumar, Asst. Professor, IIT Bhubaneswar



Mr. Bhadran V K, Associate Director, CDAC (TVM), interacting with the participants.

Two day FDP on “wireless sensor networks Cyber security & Embedded system”

Department of ECE organized a 2 Days Faculty Development Programme on “Wireless Sensor networks Cyber Security & Embedded Systems” in association with The Institution of Engineers (India), The Indian Society of Technical Education on 27 & 28th of November, 2015.



Industrial Interaction

Department of Electronics & Communication Engineering, Vidya Academy of Science and Technology and CDAC – Trivandrum signed Memorandum of Understanding (MoU) as part of enlightening the faculties and students to meet the real world needs of an engineer. On July 1st 2016, the MoU was signed by Er. G Mohanchandran, Executive Director, VICT and Mr. Bhadran V K, Associate Director, CDAC(T) as the authorities of the premier institutes.



"Er. G Mohanachandran, Exe. Director, VICT and Mr. Bhadran V K, Associate Director, CDAC (T) exchanging the documents each other and enters into MoU between CDAC (T) and Vidya Academy of Science & Technology"

Through this MoU the members of VAST gets benefits from CDAC (T) in the following area;

Module 1: Expert lecture in the areas of Embedded Systems, Signal Processing, Cyber Forensics, VLSI Design, Power Electronics, Information Security, etc.

Module 2: Invited Talk by various professional & industrial experts of CDAC firms at VAST premises.

Module 3: Staff & Student Training & Industrial Visits
Module 4: Sharing of R&D projects and support of projects proposals put forward from VAST.

Funded Projects

Project Title	Funding Agency
Water contamination detection and theft prevention system	Institution of Engineers (India)
Wireless body area sensing in Smart Hospital	Institution of Engineers (India)
Non conventional sources of sustainable energy generation for rural areas	Kerala State Council for Science Technology and Environment
Intelligent energy saving system in real time.	Center for Engineering Research and Development (CERD-KTU)
Robotic exoskeleton for rehabilitation of TMD via assisted motion of the jaw.	Center for Engineering Research and Development (CERD-KTU)

Graduation Ceremony 2016

Vidya Academy of Science and Technology conducted “Graduation Ceremony 2016” of 2012-16 Batch on 27, August 2016 in the College Auditorium. Dr.B.G Sreedevi, Distinguished Scientist, National Transportation Planning and Research Centre (NATPAC), Trivandrum, was the guest of honour on the occasion.

The ceremony commenced with a ritualistic academic procession. Dr. Sudha Balagopalan (Principal) welcomed the participants. Mr. Sudhakaran Polassery, presided the function.

GATE

Coaching classes commenced on 29th June 2016, by Mr. Shiju Aravindhakshan and Mr. Suraj Rajappan. The coaching sessions will be continued till the end of even semester.

Induction Programme

Induction programme for first year students of ECE Dept. held on 1st August, 2016 in the decennial block.

Staff Participation

1. Ms. Ashitha P.R, Ms.Aswathy Surendran, Ms. Sruthi M & Mr. Suraj Rajappan attended a FDP conducted by ICT Academy on 18-20 December 2015 in VAST.

2. Ms. Sreebi K Divakaran, Mr. Varun Kesav M.N and Ms. Sumayya P.A, have attended a IEEE APS short term training program on Keysight ADS and EMPro on 28/10/15-30/10/15.

3 .Mr. Santumon S.D attended a 3 day FDP on Advanced digital signal Processing sponsored by TEQIP-II by

Dept.of ECE, GEC, Sreekrishnapuram, Palakkad during February 22-24,2016.

4 . Ms. Resmi K.Rajan attended an FDP on Electronic Design and Automation organized at Sahrdaya college of Engineering and technology, Kodakara, Thrissur during July 12-15, 2016.

5. Ms. Swapana E.V.M, Assistant Professor, ECE attended One Day Conference on “Entrepreneurship-A National Imperative” under Entrepreneurship at Federal Institute of Science And Technology (FISAT) Mookkannoor, Angamaly on 11 June 2016.

5. Ms. Swapana E.V.M, ED Club & Start Up Convenor attended I2P Makers' Workshop organized by APJ Abdul Kalam Technological University (KTU) in association with Federal Institute of Science & Technology (FISAT) during 5-7, October 2016.

Achievements of Staff

1. Mr. Ramesh C R secured M.Tech degree in Electronics Design & Technology from NIT Calicut. Scored Highest CGPA 9.22/10 and secured Gold Medal for the Scholastic



Performance. Gold Medal & Certificate of Appreciation was given by Padmashree. Prof. K.L Chopra (Hon. Professor, IIT Delhi & Former Director, IIT Karagpur) in the presence of Dr. Sivaji Chakravarthi (Director, NITC), Ms. Aruna Jayanthi (Chairperson, Board of Governors, NIT Calicut), Heads of various Departments, etc.

2. Mr. Ramesh C.R served as resource person for the FDP on Electronic Design and Automation organized at Sahridaya College of Engineering and Technology, Kodakara, Thrissur during July12-15, 2016.

3. Dr. S. Swapna Kumar, HoD, ECE served as resource person for the Faculty Development Programme on Power Management and Research scopes in WSN and IoT on 28/08/2016, conducted by Department of Computer Science College of Engineering Cherthala under IHRD Kerala.

4. Mr. Rakesh V.S. was a resource person for an invited lecture on the subject Analog and Mixed MOS circuits for the final year B.Tech students at Royal College of Engineering, Akkikkavu on 6th August 2016"

Details of Book Published:

1. Dr. S. Swapna Kumar & Dr. Lenina authored a book on 'MATLAB: Easy Way of Learning', published by PHI Learning, ISBN : 978-81-203-5165-3, Pages : 452 in 2016.

2. Ramesh C.R & Muhammed Riyas M authored a book on 'Introduction to Electronics Engineering (For Both BE101-04 & EC100)', Published by CHESS Educational Publishers. ISBN 9788193167090, pages : 322 in 2016.

3. Engineering Electronics Workshop Work Book, Authored By : Mr. Ramesh C R (Asst. Professor, VAST, Thrissur), Published By : ARNOS Printers & Publishers, Thrissur

Paper Presented by Staff

1. Dr. S. Swapna Kumar, HoD, ECE presented paper titled "Review paper on Bioelectricity from Waste water using microbial fuel cell" at the Kerala Technological Congress (KETCON 2016) jointly organised by the APJ Abdul Kalam Technological University, Kerala and the Kerala State Council for Science Technology and Environment, Thiruvananthapuram held at Amal Jyothi College of Engineering on 8th Jan 2016.

2. Mr.Rakesh V.S presented a paper titled “Advanced Vehicle tracking and monitoring using single board computer ;Wireless sensors and GSM” in International Conference on 'Trends in Research Engineering & Developmental Sciences ' held at Sahrdaya College of Engineering & Technology, Kodakara, Thrissur during June 16-17,2016.

3. Ms. Sruthy.M. presented a paper titled “Skilled youth:Empowered nation” in the ICTAK International conclave on 24/6/16-25/6/16.

Jishnu K.Unnikrishnan, Rahul.V, Saneesh P.B of S7 EC A Batch [2013 admn.] participated in Dyuthi', the Techfest conducted by GEC, Thrissur on 3/8/16-5/8/16 and got first prize in the events- 'Tarang, Circuitrix, Electroply, & Revtronics'.

Rahul.V, Saneesh P.B of S7 EC A Batch [2013 admn.] participated in Dyuthi', the Techfest conducted by GEC,Thrissur on 3/8/16-5/8/16 and got second prize in the event-Interfuse.

Samson C.V, Joel Jose of S7 EC A Batch [2013 admn.] participated in Dyuthi', the Techfest conducted by GEC, Thrissur on 3/8/16-5/8/16 and got first prize in the event-Code sign.

Amritha V, Archana M of S7 EC A Batch [2013 admn.] participated in Dyuthi', the Techfest conducted by GEC,Thrissur on 3/8/16-5/8/16 and got third prize in the event-Code sign.

Achievements of ECE students:



Ms. Neethu Mohan (2011-2015)
Reg.No.VEALEEC080, secured First Rank in B. Tech. (Electronics & Communication Engineering) in Calicut University.

IEEE Asia Level Project Competition:



Albin James, Lakshmipriya, Snehalatha,Vidya
S7 EC B Batch [2013 admn.]
participated in IEEE Asia Level Project Competition and got first prize.

TECH TOP-PROJECT COMPETITION



Parvathy Jayan, Rabina Jose, Rayana Narayanan, Aswany K R and Dhanylakshmi KV from S8 ECE, [2012 Admn.] won "All Women Team Award" TechTop at SAHRDAYA for the Project "Hand Free PC Control Using Tongue and Check". They got Prize money of Rs.20,000.

Devaki Prabhakar and Jiji Sasidharan of S7 EC A Batch [2013 admn.] participated in 'BURST', the Techfest conducted by Electronics and Communication of Royal Engineering College on 11/8/16 and got First prize in paper presentation.

Lakshmi N Suresh and Praveena K.S of S7 EC B Batch [2013 admn.] participated in 'BURST', the Techfest conducted by Electronics and Communication of Royal Engineering College on 11/8/16 and got second prize in paper presentation.

Rema C.K and Swafvan K.S of S7 EC A Batch [2013 admn.] participated in 'BURST', the Techfest conducted by Electronics and Communication of Royal Engineering College on 11/8/16 and got Third prize in paper presentation.

Aftab Ashraf A.V and Aishwarya Pradip of S5 EC A Batch [2014 admn.] participated in 'BURST', the Techfest conducted by Applied Electronics of Royal Engineering College on 11/8/16 and got second prize in paper presentation.

Rameesa Abdul Rasheed & Riya Mary Joy of S7 EC B Batch [2013 admn.] participated in 'PANCHAJANYA -16', the techno cultural fest conducted by Sreepathy Institute of Management and Technology - on 19/08/2016 and got second prize in paper presentation

Saranya Menon and Sudhi P.D of S7 EC B Batch [2013 admn.] participated in 'PANCHAJANYA -16', the Techno Cultural fest conducted by Sreepathy Institute of Management and Technology - Vavannoor on 19/08/2016 and got first prize in paper presentation.

Calicut University Chess Championship



Ann Babu Treeza and Divya Devdas of S5 ECA [2014 admn] participated in the Calicut university chess champion ship ,2016 held on 29/09/16-1/10/16 and got second prize.

Kiran Shanmughan of S7 EC B, won gold medal in Thirinjattam, Inter zone Kalaripayattu competition held at Zamorin's Guruvayurappan College.

Sagar M.S of S7 EC B got silver medal in light welter category in the district championship held at Thrissur.

Kiran Shanmughan got silver medal in Keralolsavam Kalaripayattu championship on 30/12/15.

1. Ms. Kavya Ajith secured first rank with gold medal in M-Tech embedded system from VIT university, Chennai.

2. Ms. Jeethu Jiju, secured first rank with gold medal in M-Tech Nanotechnology from VIT University, Chennai.

Paper presented by students



Ms. Aishwarya Pradip & Mr. Aftab Ashraf of S5 EC A batch [2014 admn.] has presented a paper titled “Non conventional sources of sustainable Energy generation for rural areas” in the 2016 IEEE International conference on Engineering and technology organized by the department of CSE and IT, Rathinam technical Campus, Coimbatore during 17 th & 18 th, March 2016.

Campus Placement

Quest Engineering & Software Technologies Pvt. Ltd.	1
TCS Ltd.	30
UST Global	7
Gemini Communications Ltd.	3
VVDN Technologies Pvt. Ltd.	2
SLK Software	3
Mu Sigma	1
Poornam Infovision	2
SMART Training Resources India Ltd.	1
Sutherland Global Services	5
Support Sages Ltd.	1
Total	56

Onam celebration

VAST Onam snaps showing our VAST cultural heritage and tradition



Achievements of ECE Alumni



Ms.Kavya Ajith
(2009-2013 pass out batch)



Ms.Jeethu Jiju
(2010-2014 pass out batch)