

Reflections



ECE NEWSLETTER

2014

VOLUME—VIII
OCT - DEC

What's Inside

From HOD's Desk	1
Department Activi-	2
Faculty Development	2
Social Service	3
Industrial Visit	4
Students Enrich-	4
Achievements	5
Send offs	5
Techzone	6
Wedding Bells	7
X'Mas Celebrations	7

From HOD's Desk

Faculty development assists faculty in acquiring the knowledge , skills & values needed to succeed in their academic roles as educators & strengthen organizations so they can fulfill educational missions.

1. Teaching can be improved by increasing content knowledge and expertise.
2. Teaching can be improved by providing feedback from student evaluations.
3. Teaching can be improved by coupling teaching evaluations with consultations.
4. Teaching can be improved by helping teachers connect knowledge beliefs & reasoning with teaching acts.
5. Teaching can be improved by using reflective practices in collaboration with colleagues.

Types of Faculty Development are

1. Instructional Development
2. Professional Development
3. Leadership Development
4. Organizational Development

Department Activities

Faculty Development Programmes



Faculty Development Programme is aimed at acquiring knowledge, skills, and values for the faculty which is needed for succeeding the academic role of being educators & scholars. They strengthen the institution so that they can fulfill their educational mission. Teaching can be improved by increasing domain knowledge and expertise. Faculties are expected to be aware of the latest research work in their domain and actively update their knowledge base. FDP acts as a platform for sharing of knowledge with other colleagues which not only benefits the student community by fetching new ideas but also improve the overall academic quality.

FDP Lecture Series IV was conducted by ECE Dept. from November 19-29' 2013. Faculty members from other departments were invited to attend the sessions on "NBA Objective" and "Designing a Lab Course", which were delivered by **Prof. Asha Panicker**, HOD, ECE and Mr. Ajit Joseph, Assoc. Prof., ECE, respectively. Other topics which were delivered as part of the FDP Lecture Series IV are

Date	Time	Resource Person	Topic
19-11-2013	2.00 - 3.00 PM	Mr.Sreeraj K P	Compressive Sampling - "Sampling below Nyquist rate"
	3.00 - 4.00 PM	Ms.Hima Sara Jacob	CAM controller
25-11-2013	2.00 - 3.00 PM	Mr.Rakesh S	Parallel Processing -An Overview
	3.00 - 4.00 PM	Mr.Bibin Binu Simon	GALS approach in digital circuits
27-11-2013	10.00 - 11.00 AM	Ms.Resma Chandran V P	Cryptography
	11.00 - 12.00 PM	Ms.Sunu Ann Thomas	Free Space Optics
29-11-2013	2.00 - 3.00 PM	Ms.Binu Manohar	Switched Capacitor
	3.00 - 4.00 PM	Ms.Greeshma R	Analog to Digital converters



Social Service

Students of today are tomorrow's leaders of the society and the country. They need to have a commitment and will to work for the well being of others around.

Keeping this in mind universities have included Social Services as part of the Engineering Curriculum. On completion of course students will be awarded credit points for the same. This definitely make them realize about their contribution to the society.



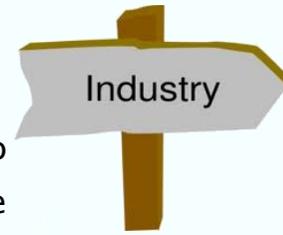
The students of 4th and 6th semester visited and served various charitable societies. They conducted various activities for the residents of these societies. They selflessly served the old, needy and sick people. Classes 6A and 4A conducted their social service activities from December 9-13'2013 at Navajeevan Trust, Arpookara and Chaithanya Pastoral Centre, respectively. Classes 6B and 4B conducted their social service activities from December 16-20'2013 at Navajeevan Trust, Arpookara and Chaithanya Pastoral Centre ,respectively.



Industrial Visits

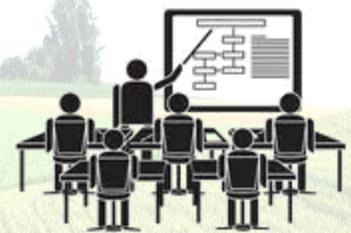


We as engineers need to know more beyond the prescribed syllabus. Technology in books is just like body without soul. One needs to see to actually know how technology works in real life. The university has the provision for this in the form of Industrial Visits which rightly serves the purpose. Such visits definitely gives a glimpse of the vast spectrum of opportunities and jobs that engineers can take up on the completion of 4 years curriculum.



Industrial visit to the All India Radio (AIR) and Doordarshan , Kochi was organized by the Department of ECE for classes 4B and 4A students on 14th and 16th December 2013, respectively. The students were shown various devices and equipments related to television, transmission and reception of Radio signals. They appreciated the detailed description given to them by the officials at AIR and Doordarshan.

Students Enrichment Programme



As a part of NBA criteria “Topic Beyond Curriculum”, a one day workshop on “**Introduction to LATEX**” was conducted on December 18’2013 for the PG VLSI students of semester 1 and 2 by **Mr. Sreeraj.K.P**, Assoc. Professor.

Department News

Ms.Resmi Hariharan , Asst. Professor has been appointed as the Secretary of Department of ECE .She has taken up the charge of the post from January’2014.



Achievements

- **Mr. Bibin Binu Simon** , Asst. Professor qualified the UGC/NET Exam of 2013.

Technical Paper Publication

Ms. Anjaly V , Asst. Professor has published a Paper entitle “Comparison of parallel adders based on speed area and power consumption” in “Global Journal of Engineering and Applied Sciences (GJEAS)” Volume 3. No 4. (October – December (2013) Issue).

On behalf of ECE Dept. we congratulate them for their achievements

Technical Workshops

- **Mr. Arun Mani**, Asst. Professor ,attended two week workshop on “System Simulation using MATLAB, Maple & LAB VIEW” at NSSCE Palakkad.
- **Mr. Anu Philip Mathew** , Asst Professor attended a one week workshop on ARM Micro-controllers” at RIT Pampady,
- **Mr. Vinay Kumar Singh , Ms. Jisha Mathew** ,Asst. Professors ,attended a three day workshop on “ Network Simulator Tools, at RIT Pampady.
- **Ms. Hima Sara Jacob** ,Asst. Professor attended one week workshop on “OrCAD ,MATLAB & DSP Processors “ at Saints GITs College of Engg Pathamuttam.

Send offs

2013 ended on a low note as we had to bid farewell to one of the eminent researcher working in our institution, **Dr. Praveen Shenoy**, Dean Research. He is a man of great experience in the field of VLSI Design especially in Power Electronic Devices. He has worked for 8 years in Fairchild Semiconductor and has published many papers in international journals and holds many patents. His humble nature coupled with his experience made him a very approachable and respected colleague . His relieving is indeed a great loss to our institution.

Ms. Siji Eapen ,our former Department Secretary went abroad after her marriage.

On Behalf of ECE Dept. we extend our sincere gratitude for their selfless services and we wish them success on their future ventures

Techzone

Raspberry Pi

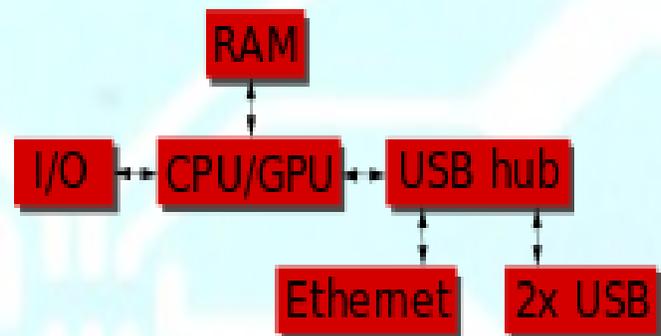


The Raspberry Pi is a credit-card-sized single-board computer developed in the UK by the Raspberry Pi Foundation .

The Raspberry Pi does not have a separate CPU (Central Processing Unit), RAM (Random Access Memory) or GPU (Graphics Processing Unit). Instead they are all squeezed into one component called aSystem onChip or SoC unit.

This is essentially the entire computer on one chip.The Raspberry Pi uses anARM1176JZF-S 700MHz CPUwhich is also installed in a wide variety of mobilephones, hand held games consoles and eReaders. This CPU issingle core, however it does have aco-processor to performfloating point calculations.

Developer	Raspberry Pi Foundation
Type	Single-board computer
Release date	29 February 2012 ^[1]
Introductory price	US\$ 25 (model A) and US\$ 35 (model B)
Operating system	Linux (Raspbian, Debian GNU/Linux, Fedora, Arch Linux ARM, Gentoo) ^[2] RISC OS, FreeBSD, NetBSD, Plan 9, Openwrt
Power	2.5 W (model A), 3.5 W (model B)
CPU	ARM1176JZF-S (ARMv6k) 700 MHz, ^[3]
Memory	256 MB ^[4] (Model A) 512 MB (Model B rev 2) ^[5] 256 MB (Model B rev 1)
Storage	SD card slot (SD or SDHC card)
Graphics	Broadcom VideoCore IV ^[3]
Website	www.raspberrypi.org



Wedding Bells

Marriage is a commitment to life, to the best that two people can find. **Mr Anathan and Ms Greeshma P** of our ECE Dept tied the knot last semester. Also **Ms Jisha Mathew** of our department got married to **Mr Jerin Mathew**. Wedding wishes for our dear friends and that your life together is filled with joy, happiness and lots of love.



X'MAS CELEBRATIONS

Celebrations are part of human life. It refreshes our life in today's busy world. X'mas is celebrated throughout the world on 25th December. It marks the birth of Jesus Christ who spread the light of goodness and sanctity. We must all come out of the darkness of our own ignorance and sin inside us and move towards the light of knowledge and goodness.



The Department of ECE conducted the X'mas celebrations on Wednesday, December 18 '2013. Prof. Asha Panicker, HOD ECE and other senior members of the department delivered X'mas message. "Cutting the cake" function and exchanging of X'mas gifts made the celebration even more colorful and joyful.

The PG ECE students also had X'mas celebrations. They invited the faculty members of the department and conducted various activities like games and puzzles making the celebration even more fun-filled.