



विश्वं शास्त्रे प्रतिष्ठितम् ।

Reflections

ECE NEWSLETTER
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From HOD's Desk

If we are looking for an easy way to boost student motivation each day, try using inspirational quotes. Finding, analyzing & sharing quotes can help our students to maintain a positive attitude and make better progress in college.

Inspirational Quotes

- Every **accomplishment** starts with the decision to try. (Gail Devers)
- Being different is one of the most **beautiful** things on earth. (Unknown)
- **Creativity** is intelligence having fun. (Albert Einstein)
- The surest way not to fail is to **determine** to succeed. (Richard Brinsley Sheridan)
- The **expert** in anything was once a beginner. (Helen Heyes)
- The best way to predict the **future** is to create it. (Abraham Lincoln)
- You are never too old to set a **goal** or to dream a new dream. (C S Lewis)
- There is no substitute for **hard work**. (Thomas Alwa Edison)
- Logic will get you from A to Z; **Imagination** will get you anywhere. (Albert Einstein)
- A **journey** of a thousand miles begins with a single step. (Lao-Tzu)
- The art of being wise is the art of **knowing** what to overlook. (William James)
- Today a reader tomorrow a **leader**. (Margaret Fuller)
- One way to keep **momentum** going is to constantly have greater goals. (Michael Korda)
- Work alone is **noble**. (Thomas Carlyle)
- If a window of **opportunities** appears don't pull down the shade. (Thomas Peters)
- **Perseverance** is failing 19 times and succeeding the 20th. (Julie Andrews)
- **Quality** is not an act, it is a habit. (Aristotle)
- Take **risks**: If you win, you will be happy, if you lose you will be wise. (unknown)
- An obstacle is often a **stepping** stone. (Prescott)
- I believe that every person is born with **talent**. (Maya Angelou)
- Always desire to learn something **useful**. (Sophocles)
- Setting goals is the first step in turning the invisible in to **visible**. (Tony Robbins)
- Wake up every morning with the thought that something **wonderful** is about to happen. (unknown)
- The difference between ordinary and **extra ordinary** is that little extra. (Unknown)
- Good habits formed at **you** make all the difference. (Aristotle)
- **Zeal** without knowledge is fire without light. (Thomas Henry Huxley)

Induction ceremony



Induction ceremony itself means “a ceremony or formal act by which a person is inducted, into a program”. In this sense the **Mangalam** group conducted an induction ceremony on 31/07/2013 at Mammen Mappilai hall, Kottayam, To welcome its young and fresh engineering minds to set themselves into the great stream of innovations that is “engineering-the future world”. The newly selected candidates along with their parents participated in this ceremony. The program was started with a welcome speech of our re-

spected Legal Advisor **Dr.Abraham Chettisery** .Later this ceremony was inaugurated by our respected Chairman **Er.Biju Varghese** who also delivered the presidential address . The ceremony was blessed with the presence of a number of eminent personalities from and out of the college. Well known academicians ,other selected persons from various fields of the society delivered talks on various aspects of career. Some of them shared invaluable treasure of knowledge from experiences in their life with the students.



On this occasion **Prof.Chikku Abraham HOD (EEE)** gave a small talk on the rules and regulations which the students should follow in the college as a student of a professional course . Respected HOD’s of different departments gave a brief description about their departments and the faculties. Our placement co coordinator **Prof. Varkey Philip** delivered a talk on recent and emerging scenarios in the placement sector.



As part of this induction ceremony , an orientation program on career growth was delivered by **Shri.Alexander Jacob IPS** , he emphasised on “how we can build a career , how we can excel in it? How to be a good professional?”. It was a valuable talk for the new minds who want to become a good professional to serve his country and fellow citizens.



New Members of our family



Asst.Prof. Vinay Kumar Singh

Completed his M.Tech in Communication engineering from NIT Surath. Prior to that he was working at Rajagiri School of Engineering And Technology.He has joined with us from June 2013.



Asst.Prof. Jisha Mathew

Completed her M.Tech in Signal Processing from CUSAT . Prior to that she did her B.Tech from SJCT Pala, she has joined us from June 2013.

Seminars and conference



Mr.Bibin Binu Simon (Asst.Professor dept. of ECE) attended a national seminar on "**latest innovations in RF&VLSI Engineering**" conducted by SCMS school of engineering & technology on 26th-27th July 2013.



Mr. Rakesh S (Dept. of ECE) published a paper on "**VLSI Implementation of digital keying techniques using VHDL**" in the International Journal for Scientific and Engineering Research (Vol. 4-issue. 8-August 2013 ISSN 2229-5518).



Wedding Bells

- Ms. Siji Eapen married Mr.Sukhu Jacob Mathew on 26 august 2013
- Ms.Jeena Thomas married Mr.Aby Varghese on 22 august 2013
- Mr. Christin Kiran Thomas married Bency T John on 13th July 2013.





ONAM CELEBRATIONS:

Onam is the festival of flowers & feasts, celebrated by keralites, during the 1st month of the Malayalam year.

People decorate their courtyard with “pookkalam” with large amount flowers. On this day one of the main attraction is the “onam feast” with a variety of dishes. At this favorable day men , women , and children wear traditional kerala dresses and engage in a variety of activities and games for rejoicing the day of onam. This is a festival of nostalgic memories for all keralites and is related with the story of the great king Mahabali who once ruled kerala .

If we think about onam we can see that it is also a festival of family get together. Onam creates an opportunity to bring families together and enjoy the day. We at Mangalam also celebrate onam as a family .

The celebration was conducted on 13 September ,2013 . Teaching , non teaching staffs & students wore traditional dresses. College was decorated with a beautiful “athappookkalam”. We conducted a competition for the best pookkalam among the various student groups , and also conducted various traditional games related to onam for the students and staffs .After that an there was an onam feast for all.



Industrial visit:



Industrial visits are a part of the university curriculum. The industrial visits have very important role to play in the training of an engineering student. It helps him realize the importance of the theories and principles studied in the class room and make him to get in touch with the latest technologies related to his stream of engineering studies. This enables him to understand how the theories and practical sessions are incorporated into various machines, designs, R&D sectors and in day today life .

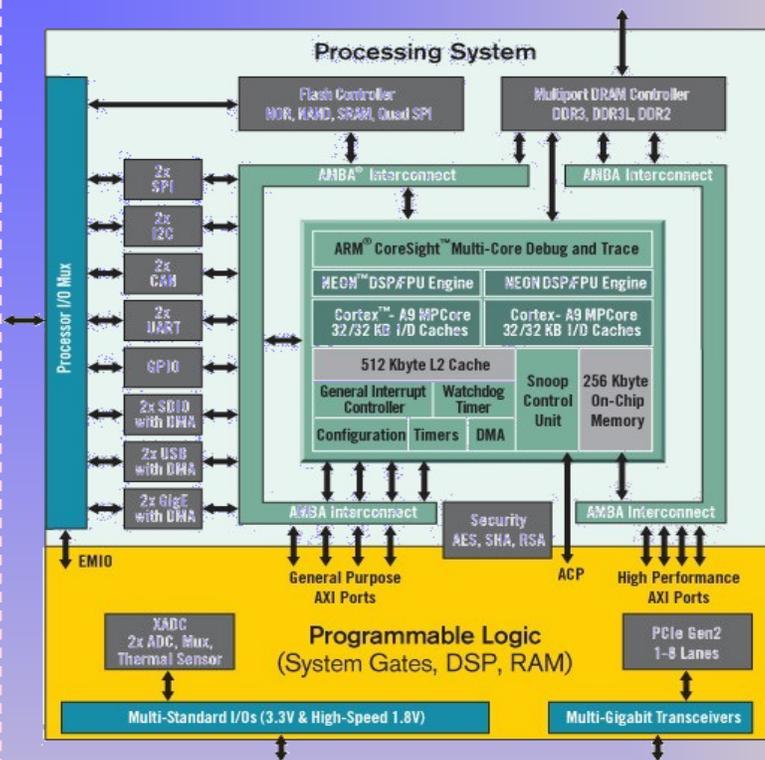


The ECE department conducted an industrial visit for the students of fifth & seventh semester from 20th August to 25th August. The students of ECE 7A visited the campuses of AIR(All India Radio), doordarshan at Ernakulam and the ISRO centre at Trivandrum. In Doordarshan ,technical experts explained various stages in television broadcasting especially signal uplink -downlink functions & working of transponders. Students had a wonderful experience which helped them to get a clear idea about Television Broadcasting. ECE 7B selected ISRO Trivandrum campus and embedded system companies(Masstech &Vi Microsystems) at Chennai for their industrial visits. In ISRO Students visited the ISRO scientific museum where they could see the historical milestones of Indian space research.

Industry Links



TechZone : Zynq-7000 Platform Devices



The **Zynq™-7000** family of devices combines the software programmability of a Processor with the hardware programmability of an FPGA, resulting in unrivaled levels of system performance, flexibility, scalability while providing system benefits in terms of power reduction, lower cost with fast time to market. Unlike traditional SoC processing solutions, the flexible programmable logic of the Zynq-7000 devices enables optimization and differentiation, allowing designers to add peripherals and accelerators to adapt to a broad base of applications.

- ARM® dual-core Cortex™-A9 MPCore processors
- Fixed processing system that can operate independently from the programmable logic

- Processor boots on reset like any processor-based device or ASSP
- Processor acts as “system master” and controls the configuration of the programmable logic enabling full or partial reconfiguration of the programmable logic during operation
- Standard development flows providing a familiar programming environment for software developers .

The key Features:-

- Dual ARM Cortex™-A9 MPCore
- Up to 1GHz
- Enhanced with NEON Extension and Single & Double Precision Floating point unit 32kB Instruction & 32kB Data L1 Cache
- Unified 512kB L2 Cache
- 256kB on-chip Memory
- DDR3, DDR3L, DDR2 and LPDDR2 Dynamic Memory Controller
- 2x QSPI, NAND Flash and NOR Flash Memory Controller
- 2x USB2.0 (OTG), 2x GbE, 2x CAN2,0B 2x SD/SDIO, 2x UART, 2x SPI, 2x I2C, 4x 32b GPIO
- RSA Authentication of First Stage Boot Loader, AES and SHA 256b Decryption and Authentication for Secure Boot
 - Dual 12bit 1Msps Analog-to-Digital converter Up to 17 Differential Inputs
- Advanced Low Power 28nm Programmable Logic: 28k to 444k Logic Cells
- 240KB to 3020KB of Extensible Block RAM
- 80 to 2020 18x25 DSP Slices (58 to 2622 GMACS peak DSP performance)
- PCI Express® Gen2 in Z-7015, Z-7030, Z-7045 and Z- 7100



Departmental Events

Open House:-

Open House were conducted for students of Department of ECE. Students along with their parents participated in the event. Students from s3,s5&s7 semesters had Open House On 29th,30th & 31st august respectively. During this parents analyzed the performance of their children along with their respected subject teachers to find the faults in study methodologies and general attitude and rectify them.

Faculty Development Program

A one day workshop on Information Theory was conducted at Mangalam College of Engineering on 7th October 2013. This program was aimed to give training to faculties of M.Tech in Communication Engineering from various engineering colleges under M G University . The main speakers of the workshop were

- Dr. Praveen Shenoy (Dean Research, Mangalam College of Engineering)
- Prof.Asha Panicker (HOD ,ECE Dept Mangalam College of Engineering)
- Prof.Rakesh Cherian (Professor , CS Dept. Adi sankara institute of Engineering & Technology)
- Mr.Sreeraj K P (Associate Professor, ECE Dept, Mangalam College of Engineering)
- Ms.Gayathri Devi (Asst.Professor , ECE Dept, Mangalam College of Engineering)



Conference Alerts

- 6th International Academic Conference on Electrical, Electronics and Communication Engineering (IACEECE-2013) Conference 20th to 20th October 2013 Hyderabad, Andhra Pradesh, India.
- 3rd International Academic Conference On Electrical, Electronics And Computer Engineering Conference 20th to 20th October 2013 Chennai, Tamil Nadu, India .
- PIC-2013; Theme: "Emerging Trends in Electronics and Communication Engineering" Palakkad, India.
- 5th International Academic Conference On Electrical, Electronics And Communication Engineering (IACEECE-2013) Pune, India.