



JYOTHI ENGINEERING COLLEGE

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JECC
NEWS

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INDUCTION CEREMONY AT JYOTHI



The 12th batch of students to enter Jyothi Engineering College became a part of the Jyothi family at a glorious and solemn ceremony on 31-7-2013. The chief guest of the day, Dr. G. Jayraj, the Head of the department of Surgery, was the apt person to welcome and advice the youth of today entering into the Professional world, as he is himself a well-known medical surgeon and social worker. One who empathizes with the pain and needs of society at large. The function began with the lighting of the lamp of Jyothi. This was followed by the ancient Indian tradition of "Gurudakshina" where Heads of Departments were given a "dakshina" by representative students from among the newcomers. This was followed by a lunch where students, guardians and teachers sat down together in a warm and welcoming atmosphere. The highlights of Jyothi's past achievements and samples of our aesthetic talents were also showcased.

NATURA ENVIRONMENTAL FORUM

As a part of the national environmental day celebration, the activities of the forum for the academic year 2013-2014 were inaugurated by Dr. Radhakrishnan, lecturer anesthesia dept, Medical college, Mulakunnathkavu on 4th July 2013. Packets with Five different types of seeds were distributed in the college on the same day.

Natura club started its first activity for the current year by starting a vegetable garden in the college premises. Student and staff members from each department were given 2 Mud beds for sowing their seeds.



STAFF -IN-CHARGE

AEI Dept	: Ms.ROSHNI RAJAN K
IT Dept	: Ms.JISNA
EC Dept	: Ms.NISHAMARY
ME Dept	: Mr.SYAMJITH K
CSE Dept	: Ms.RIJI
EEE Dept	: Ms.KAVITHA BHASKER
CE Dept	: Ms.MANJU

SUPPORTING STAFF

AEI Dept.	: Mr.MAJEENDRAN
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FDP (Faculty Development Programme)



Food for the mind is as important as food for the body. The management of Jyothi was quick to recognize this fact and so drew out a two day FDP for the teaching and non teaching members of the Jyothi Family. Stress release, Team work, work Psychology, Paths to excellence and the like were some of the things discussed and demonstrated at CST Pariyaram on July 5, 6 and August 2, 3 respectively. The best participant among the teachers was Ms. Diana Davis, of the IT Department and the best participant among the non-teaching staff was Mr. Shijin K.M of the Mechanical Department. A moral booster and ice breaker we await more such occasions. Mr. Bobby Peter you were great as Co-ordinator of this venture.

Inauguration of the Activities of IEEE for the Academic Year 2013-14



The inauguration of the Activities of IEEE for the current academic year was done by Mr. Shahim Baker, Director, Grey Technolabs, Ekm., Secretary IEEE Kochi Subsection, on 13th August 2013 10am. The inauguration was followed by a technical talk on "Build your Dreams And Fly-A Path to Enterpreneuership" by Fr. Roy. Joseph Vadakkan.

On this occasion Mr. Jishnu V and Ms. Anagha Philip of S7 EEE were applauded for achieving the Second Place in the Students Ethics competition held as a part of 'SATHVIKA'-the All Kerala IEEE WIE Congress held at Chengannur. They received an amount of 200\$ towards the activities of our Student Branch, as their prize.

**GIVE BLOOD
GIVE LIFE**



The Blood Donors Forum of JEC organized a Voluntary Blood Donation Camp on 11th July 2013. The medical team from Jubilee Mission Hospital led the camp. Around 100 people donated blood including students and staff.

Department of Computer Science & Engineering

Newsletter August 2013 (Apr-Aug)

Staff Achievements

Swapna B Sasi attended an FDP program "Summer School on Network & Information Security" at IIITM-K, Trivandrum from 20/5/13 to 31/5/13.

Mr. Viju Shankar and Ms. Namitha together published a paper "A randomized Adaptive Median Filter for Impulse noise removal" in the International Journal of Graphics & Image Processing, Vol 3, issue 1, Feb. 2013.



Viju Shankar



Ms. Namitha



Swapna B. Sasi

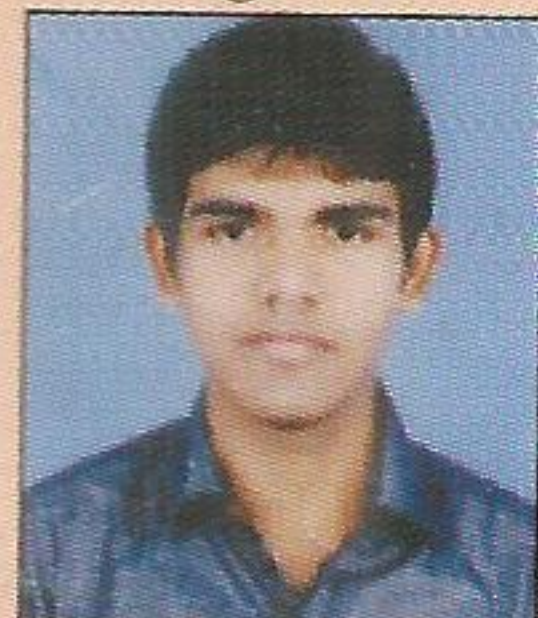
Staff Activities

Mr. Viju Shankar attended a CSI Students Branch Counsellor's Meet at CSI Cochin Chapter on 20/7/13.

Students Achievements

Jeffin Thomas won the 1st prize in NFS Most Wanted in the All Kerala Student Congress 'Algohythm 2k13' held at Vimal Jyothi Engineering College, Kannur.

Cijo Jose, Jeffin Thomas and Sooraj Antony of S5 CSE won 2nd prize in Quizzipedia, a quizzing event in All Kerala Student Congress 'Algohythm 2k13' held at Vimal Jyothi Engineering College, Kannur.



Cijo Jose



Jeffin Thomas



Sooraj Antony



Athira



Fancy



Soorya M

CESA (Computer Engineering Students Association)

The inaugural function of CESA for the year (2013-2014) was organized on 24th July 2013, Wednesday. The Chief Guest of the day Sijo Kuruvilla C.E.O. Startup Village delivered the keynote address. The Chief Guest presented the memento to Dany Varghese "Best Student" award winner. He also distributed certificates to various students.



Result Analysis

Semester	Total Pass %	University Position
S8	91	9th
S5	91.8	1st
S3	77.36	2nd

Fancy Augustin won the 1st place in the S8 result with a GCPA of 8.84, Athira Sasikumar won 1st place in the S5 result with a CGPA of 8.57 & Soorya M won 1st place in the S3 result with a CGPA of 8.71

Department of Information Technology

FDP Attended

Mr Majo John attended an FDP on 'Theory Of Computation' at JECC on 4th and 5th April organized by Computer Science Department. He also attended an FDP on, Image Computing and Applications at NIT Calicut in the 2nd week of June 2013.



Class Topper

Divya Muraleedharan
(S8 IT) 8.32(SGPA)



CLASS	PASS PERCENTAGE
S8	61.54

Aeisa Activities



A Motivation Talk was held by the Association for the students of the department on 24/ 7/2013 by Capt. KAVITA S NAIR. The Talk was really fruitful & included topics regarding ambition, positive thinking & so on.



Social Activities



S7 students visited the MEDICAL COLLEGE MULAMKUNNATHKAVU on Independence Day(15/8/2013). They also took part in activities like painting furniture, offering technical services & so on.



Department of Civil Engineering

- The department has been set up and Prof. A Radhamany (Former Principal GEC Wayanad) has taken charge as Head of the Department.
- The Following members have joined the Faculty:
- Mr. Cyriac M. G.(Retd. Executive Engineer, Kerala Water Authority) Associate Professor.
- Ms. Manju Manohar M. (M.Tech in Traffic & Transportation, NIT, Calicut) Assistant Professor.
- Ms. Tricy Luis rejoined after completing M.Tech in Geotechnical Engineering.
- Ms. Nirmala M (M.Tech in Computer Aided Structural Design, Cochin University) Assistant Professor
- Mr. K. T. Markose (Retd. Faculty GEC Thrissur) Lab instructor
- Ms. Reshma K.C. junior instructor
- Ms. Anitha Jacob completed her Ph. D in civil engineering on "Geometric Design Consistency and Safety of Two-Lane rural highways" from NIT, Calicut
- The Department has established a full fledged survey and material testing laboratory.

DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dr. Jose P Therattil Head of ECE Department

Dr. Jose P Therattil rejoined as the Head of ECE Department on 01/04/2013 after completing his Ph.D from National Institute of Technology, Rourkela.



Dr. Jose P Therattil

Inauguration of renovated Department Library

The renovated Department Library was inaugurated by Rev. Fr. Varghese Kuthur, Executive Manager, JECC on 26/07/2013. The following are the new facilities implemented as a part of the renovation:

Library Management Software and an Online Access System for Students (OASYS)

300 Additional books have been added to the stock

Facility to reserve books online through the intranet

Reading room space increased to approx. 200sq.ft

A provision to donate a book to the Dept. Library as a Birthday present in the name of a student of a particular class, by the students of that class, has also been implemented as a part of the renovation. Er. Bobby Peter, Asst. Administrator specially appreciated Mr. Abin Johns Raju, Asst. Prof., for implementing this

STAFF ACHIEVEMENTS CONGRATULATIONS!

Ms. Anjitha V., Asst. Prof., secured the **1st Rank in the Kerala University M.Tech 2013 Examination** (in Microwave & Television Engineering.)



Ms. Anjitha V.

Ms. Krishnapriya S. secured the second place for the M.Tech at NIT Calicut



Ms. Krishnapriya S.

Ms. Sarika K. T. secured the third place for the M.Tech at NIT Calicut.



Ms. Sarika K. T.

Paper Presentations & Publications

Ms. Krishnapriya S, Asst. Prof., presented & published a paper titled "Germanium-source germanium-channel silicon-drain vertical TFET for low power applications" in the IEEE - Emerging Research Areas and 2013 International Conference on Microelectronics, Communications and Renewable Energy (AICERA/ICMiCR) organized by IEEE at AmaUyothi College of Engineering, Kanjirappally, Kottayam on 05/06/2013.

Ms. Sarika K T, Asst. Prof., presented & published a paper titled "A novel high speed communication system based on the concatenation of RS and QC-LDPC codes" in the IEEE - Emerging Research Areas and 2013 International Conference on Microelectronics, Communications and Renewable Energy (AICERA/ICMiCR) organized by IEEE at AmaUyothi College of Engineering, Kanjirappally, Kottayam on 04/06/2013.

Online Access for Students (OASYS)

Mr. Jinesh K J, Asst. Prof., developed and implemented a 'Library Management Software' and an 'Online Access for Students (OASYS)' as a part of the ECE Dept. Library renovation. The system has the following features accessible through the Intranet:

1. BookSearch
2. Reservation
3. Access to Course Materials (Videos, E-books, Presentation Slides, Lecture Notes, Seminar & Project Reports, etc.)



Mr. Jinesh K J



Rev. Fr. Varghese Kuthur, Exec. Mngr inaugurating the ECE Dept. Library



Er. Bobby Peter, Asst. Admin. inaugurating the (OASYS)

Students Activities

1. ECSA(2013-14) Election was held on 16/07/2013. Following are the Elected Office Bearers:
a. Secretary – Mr. Mathew J Kodendath
b. Joint Secretary – Ms. Anusha K B
c. Treasurer – Mr. Sebastian Joseph
2. A Talk on 'Fundamentals of Digital Image Processing' by Dr. Gylson Thomas, Principal, JECC was organized for the Students of 2010-2014 ECE Batch on 15/07/2013.
3. Students from 2010-2014 & 2011-2015 ECE Batches participated in the All Kerala Student Congress - 'Algorithm 2013' organized by the Local Integrated Network of Kerala IEEE Students at Vimalyothi Engineering College, Chemperi, Kannur on 09/08/2013.
4. Students from 2010-2014 & 2011-2015 ECE Batches participated in the IEEE Kochi HUB WIE Congress - 'Satvika' organized by IEEE Student Branch, College of Engineering, Chengannur between 01/08/2013 to 03/08/2013.

DEPARTMENT OF BASIC SCIENCE AND HUMANITIES



The Department started the year with publications by Sandeep Narayan, Asst. Prof. (BSH) in the Mathematical arena. His publications included: "Some Notes on Self Centered Graphs" (Journal: Discrete Mathematics Algorithms and Applications), and "Some Notes on Compliment of Fuzzy Graphs" (Journal: JOSR Journal of Mathematics)

FR. Roy Vadakkan showed his expertise in the field of Management Studies with an innovative presentation entitled "Build Your Dreams and Fly- A Path to Entrepreneurship". This presentation was made at the inaugural session of the Association of IEEE.

Fr Roy spoke to the students of The University of Calicut on Modern Management Techniques.

The faculty members of Little Flower College, Guruvayoor, had the privilege of attending the workshop conducted by him on "Androgogi a Modern Teaching Learning Process" in July 2013.

Dr. Usha Menon of the BSH Department furthered the cause of Communicative English for the young by introducing a monthly publication entitled "Little Hands" in August 2013.

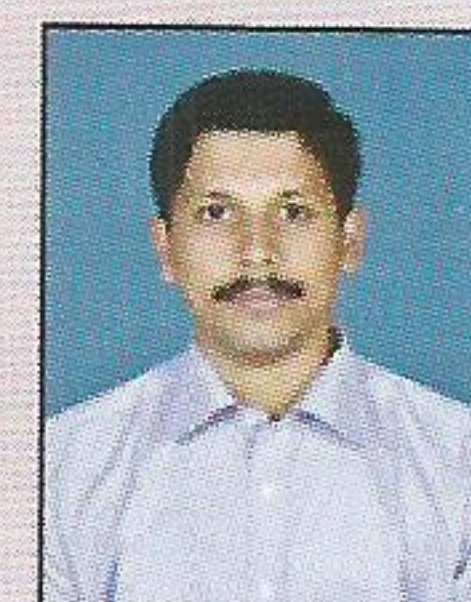
DEPT. OF MECHANICAL ENGINEERING

Faculty Achievements

Paper Publication:

The Following papers were published by:

Sreejith K., Christy V. Vazhappilly, Nikhil N.S., spoke on "Performance Evaluation of Household Refrigerator using CuO Nanoparticle Lubricant Mixture and various Compressor Oils with Different Condenser Modes" at the National Conference on Recent Trends In Mechanical Engineering (NCRTME 2013), SNS College of Engineering, Coimbatore, 19 March 2013.



Mr. Sreejith K.



Christy V Vazhappilly

Christy V. Vazhappilly, Trijo Tharayil wrote about "Modeling and Experimental Analysis of Generator in Vapour Absorption Refrigeration System" in the International Journal of Engineering Research and Applications, Volume 3, August 2013.



Trijo Tharayil

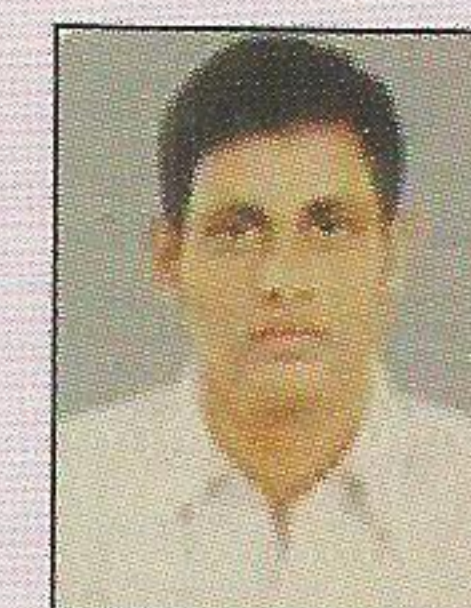
Melvinraj C. R. et al. wrote on CFD Studies of Combustion Diesel Engine, in the Journal of Engineering Research and Applications, Vol. 3, Issue 4, Jul-Aug 2013,



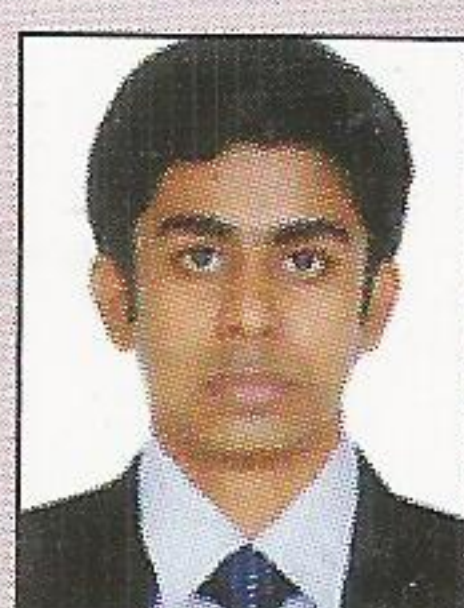
Melvinraj C. R.

Biju CV, Nikhil N. S. presented a paper on "Investigation of machinability of self propelled rotary cutting tool", International Journal of Research in Aeronautical and Mechanical Engineering, Vol-1, Issue-3

Biju C. V. and Sojan P. T. presented a paper on, "Design and Development of Pin on Disc Apparatus and Investigation of Tribological Behaviour of Metals". International conference on Safety by Design, (ICSBD 2013), Material processing session.



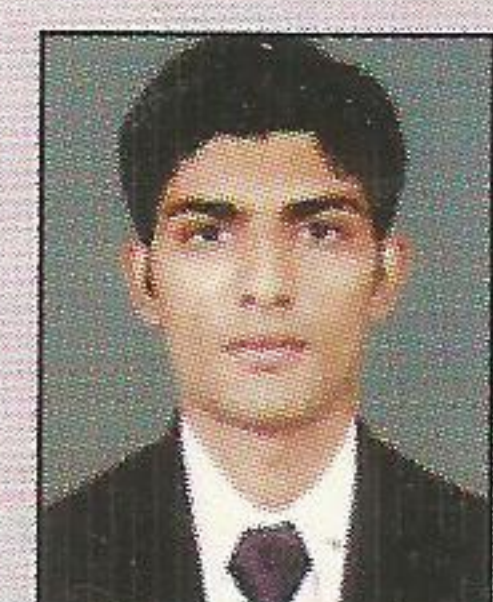
Biju C. V



Mr. Nikhil N. S

Aju Pius Thottungal wrote about "Controlling Measures to Reduce Rejection Rates Due to Forging Defects", International Journal of Scientific and Research Publications, Volume 3, Issue 3, March 2013.

He also published a paper on "Redesign the Layout of a Forging Unit Using Discrete Event Simulation", International Journal of Emerging Technology and Advanced Engineering Volume 3, Issue 8, August 2013.



Aju Pius Thottungal

FDP/National Level Workshop



Mr. Suneeth Sukumaran attended a short term course on "Introduction to Finite Element Method (FEM) with Hands on Altair Hyperworks" at MNIT Jaipur from 03/06/2013 To 06/06/2013.

Project

Biju CV Asst professor of Mechanical Engg Dept along with the team members Sharath G Krishnan, Delwin Deavassy, Sipin Peter, Basil Varghese Designed and developed 'Adaptive Speed Governing System' as continuation of S6ME mini project. Based on the road demonstration of the project, Transport Commissioner Shri Rishiraj Singh IPS awarded 'Letter of appreciation' for the innovative work. All the leading print and visual media reported event.

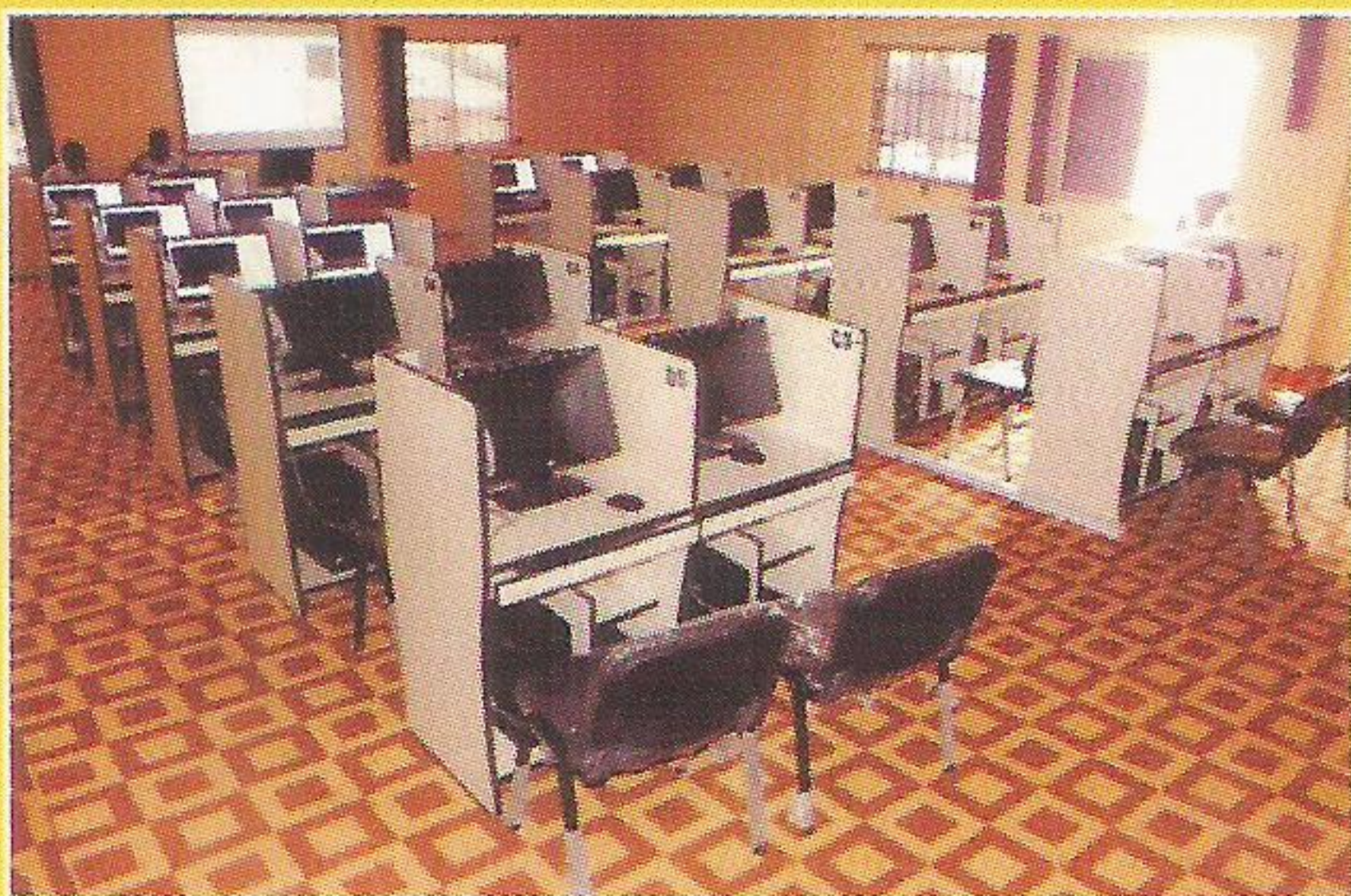


Team members with Asst. Commissioner of Police Ms. Chandan Choudhary IPS, Thrissur



Road Demonstration at Manaveeyam Road

Placement Cell



Our Placement Cell has become a hub of activity with full fledged training sessions for the first, fifth and seventh semester students. These Saturday classes are to prepare our students for the interviews they will be facing later in the industry.

We have also started a language lab under the guide-ship of Dr. Usha Menon to add to the spoken English skills of our students. The lab invites the participation of any member of the Jyothi family who is interested in learning spoken English.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING Faculty Development Programme 2013

An ISTE Sponsored 3 - Day National Level FDP on Design Testing and Launching of Satellite Systems was organized by EEE, ECE and AEI Dept. was held from 6th Feb to 8th Feb. The Programme was inaugurated by Dr. Gopakumar S, Former Dy. Director VSSC and Consultant C-DIT TVM. The various sessions of the 3 days FDP programme was handled by the eminent scientists from VSSC Trivandrum.



FDP Inauguration



Interaction with Mr. Christo George

Industry Institution Interaction:

All PG 2nd semester students (17 students) of 1st Batch along with 4 members of faculty namely HOD, Mr. Jenson, Ms. Della and Ms. Jitha visited M/S Hykon, Kuttanellloor on 28/2/13 and made a detailed study of the manufacture of Hykon equipments. Interacted with Mr. Christo George, CMD of the factory. Accordingly it was decided to build further interactions and following decisions have been formed.

Provisional Permission to impart Industrial Training to PG students during vacation.

To work along with TBI so as to encourage the R&D and Consultation activities of the members of faculty.

To boost the placement offers to both PG and UG students.

Result Analysis

4th sem Univ. Result of S6 EEE (2010 Adm)

Total Pass % - 59.37%; University Position :- 4th

6th sem Univ. Result of S8 EEE (2009 Adm)

Total Pass % - 71.18%; University Position :- 5th

Expert Talk

Er. Christo George, CMD, M/s Hykon Industries Pvt. Ltd, addressed and interacted with the members of faculty and PG students. **Topic: Innovation and Success.** He also spoke on 'Renewable Energy and its importance' to the final year students at 11.45 am on 17/01/13.



Talk by Mr. Christo George



Study Tour

Study Tour

41 students of S8 EEE (2009 Adm) accompanied by 2 members of faculty (Mr. Prasad C and Ms. Liza Baby) and a parent went on an Industrial tour to Bangalore and Hyderabad from 17/1/13 to 23/1/13. **Industries Visited : HAL Bangalore on 18/01/2013 and CMET Hyderabad on 21/01/13.**

44 Students of S4 EEE (2011 Adm) accompanied by 2 members of faculty (Mr. Vineeth V V and Ms. Sreethumol M V) went on an Industrial Tour to Idukki (3 days) from 23/1/13 to 25/1/13. **Industries Visited : Viyyur Sub Station and Peringalkuthu Power Station.**

59 students of S6 EEE (2010 Adm) accompanied by 2 members of faculty (Mr. Vineeth V V and Mrs. Anu Sunny) went on an Industrial Tour (1 day) to **Peringalkuthu Power Station on 23/2/13.**

Faculty Achievements

Mr. Praveen R. P AP, EEE Dept. has been appointed as a reviewer for the technical journal 'Electrical Power Components and Systems' of Taylor and Francis group. He appeared for final Open Defence of his PhD programme on 6/3/12. **Topic: Design, Analysis & Realization of Zero-Cogging Permanent Magnet Brushless DC Motor for Space Craft Applications.**



Mr. Praveen R. P.



Ms. Athira K. V.

Ms. Athira KV AP, EEE Dept. received an award for being the 3rd prize recipient of the IEEE IAS CMD Master Thesis Contest at a felicitation ceremony held at RIT Kottayam on 21/12/12.

The Following members of the faculty qualified at the Gate 2013 Examination:

Mrs. Reshma Raj C, Mr. Prasad C, c. Mr. Vineeth V V, Ms. Renjini G, Ms. Liza Baby

Student Achievements

Mr. Jishnu R, S6 EEE has been selected as the Microsoft Student Partner to represent Jyothi Engineering College for the academic year 2012-2013.

Savithry T.S, Hasna V.K and Amrutha Mohan of S8 EEE has won 2nd prize for **Project Exotica** in the Technical Fest Panchajanya 2013 held at Sreepathy Institute of Management and Technology, Vavannoor during 1st and 2nd Feb 2013.

Hasna V K and Savithry T S, S8 EEE (2009 Adm.) students presented a paper on 'Grid Connectivity of Renewable Energy - Issues and Solutions in the District Level Seminar Competition organized by the KSEB Engineers Association with the support of IEEE Power and Energy Society Kerala Chapter held on 23/2/13. They secured 1st position among the participants.

Hasna V K and Savithry T S, S8 EEE (2009 Adm.) students presented a paper on 'Grid Connectivity of Renewable Energy - Issues and Solutions in the District Level Seminar Competition organized by the KSEB Engineers Association with the support of IEEE Power and Energy Society Kerala Chapter held on 23/2/13. They secured 1st position among the participants. He was 3rd in ASTHRA as part of Tharang 12 v.2.0 on 10/11/12.



Jishnu R.



Savithry T.S



Hasna V.K



Chacko J.

Top Ranking Student of the Class

Class: S8 EEE (2009 Adm)

Sixth Semester University Exam May 2012

1st Reshma T.M (8.2 SGPA)

2nd Hasna V K (8.04 SGPA)

3rd Savithry T.S P (7.8 SGPA)

Students qualified in the Gate Examination 2013.

Mr Jithin K Jose, S8 EEE

Ms Sandhya T, M.Tech Power Electronics

Ms. Nithya K, M.Tech Power Electronics

Ms. Greeshma Chandran, M.Tech Power Electronics

Ms. Shabana, M.Tech Power Electronics

Ms. Liya P F, M.Tech Power Electronics