



amalites
DigEST

Amal Jyothi College of Engineering, Kanjirapally



Volume 1

Bi Annual Newsletter

June 2010

INAUGURATION OF P.G. PROGRAMMES

Amal Jyothi's elevation to postgraduate status was celebrated in a magnificent way. The grand function also saw the laying of the foundation stone of the proposed P.G. block. Smt. D. Purandeswari, Hon'ble Minister of State for HR, Govt. of India was the chief guest. Mar Mathew Arackal, Patron of the College, presided. Sri. P.J.Kurian M.P gave the keynote address. r4 Radio, the first internet radio from an engg. college in Kerala, was inaugurated in the same function by Sri.Anto Antony M.P.



ICACC-2010

An "International Conference on Advanced Computing and Communication" was held on 3 and 4 May. More than 60 delegates from India and abroad attended. The conference, was inaugurated by Dr. Mathew J Palakal, Dean, Purdue University, USA. Dr. Prahlad Vadakkepat, National University of Singapore and Fr. Biju John, Kingston University, London were the keynote speakers.

Graduation Ceremony

Graduation Ceremony 2010 batch was conducted on 7th June. Ms. Pamela Anna Mathew, Managing Director, OEN India Ltd, Kochi, was the guest of honor. Very Rev.Fr.Mathew Paikatt, Vicar General, presided and Dr.J.Prameeladevi, Vice-President, PTA, Fr. Varghese Parintherickal, Manager, Dr. S. Balasubramanian, Director & Fr. Jose Kannampuzha, Principal, spoke.



IEDC & SEMESTER INAUGURATION

Innovation and Entrepreneurship Development Centre (IEDC), a unique feature of Amal Jyothi, was inaugurated by Sri Anto Antony M.P on 20 Jan. The function also marked the formal commencement of higher semester classes.



Fr. Roy Kannanchira CMI ("Kochettan" – Deepika Children's League) led a staff enrichment programme on 24 & 25 June.



Member, College Advisory Board

Dr. Sebastian Narively, Head, Dept. of Humanities, has been selected as the Staff Representative in the College Advisory Board. **Hearty congratulations!!**

GEM of AJCE- 2010

DEREK JOHN MULLASSERY
S8-EEE



DEPARTMENT OF CIVIL ENGINEERING



Sri.T.K. Georgekutty, Superintending Engineer(Rtd.), Govt. of Kerala has joined as Professor. B.Tech from NIT Calicut and M.Tech from IIT Madras, he began his career in 1979 as Asst. Engineer P.W.D. and Rose to Executive Engineer in 2003. He was in-charge of RST projects for Changanacherry-Vazhoor, Ettumanoor -Pala-Erattupetta and Kumily - Pooppara roads. In 2007 he served as Co-ordinator for National Rural Road Development Agency. He also functioned as faculty and Manager (Trg.), for Engineers in PWD. Fellow of the Institution of Engineers and Institution of Valuers, he is also a member, Indian Roads Congress and Indian Buildings Congress.



Prof. L.V. Prakasan, passed BSc Engg from CET, Tvm, with 4th rank in the university in 1975. He attended a course on "Analysis of Design of Bridge Structures" at IIT Madras before joining NSS Engg College, Palakkad, as lecturer. In 1979 he joined the Kerala PWD and was in the Govt. service for 29yrs mainly in-charges of Buildings & Local works. He retired as Superintending Engineer in 2008.

Achievements:

Keerthy M. Simon and Ms. Deepthi Mary Dileep secured admission to Ph.D at IISc, Bangalore.
Grace Mary Abraham secured admission to M.Tech in Construction Management at SRM Univ., Chennai.
Minu Michael was selected to C.P.W.D

Training programmes for students:

The Dept. conducted a short-term course on project management software PRIMAVERA and design software STAAD for final year students. Training on Auto Cad drawing software was imparted to the third years.

Students' achievements:

Mathew Thomas and Vasudev J Menon of S6 won 2nd place in Music and dance at NAKSHATRA'10, a national level techno-cultural meet at Saint Gits

Gayathri A K of S4 won 1st in **ethnicity** in **NAKSHATRA'10**.

Prakash John of S4 won 2nd place in Vivencia in CONJURA'10, national level tech fest at TKMCE, Kollam

AMAL JYOTHI EDUCATIONAL AND CULTURAL SOCIETY (AJECTS)

As part of the decennial celebrations of the College, the Civil Engg. Dept. has initiated a social welfare society - AJECTS- to promote service-mindedness along with academic growth. The objectives are :

- To provide good and high quality education at a low cost.
- To promote use of green technology, organic farming and herbal plantation.
- To initiate employment generation programmes

- To promote savings and credit programmes
- To avail appropriate development schemes for housing, sanitation.
- To facilitate the participation of women and the marginalized in the development process.

Executive committee is formed with Fr. Varghese Parinthirickal (Patron), Fr. Jose Kannampuzha (President), Prof. Tomy Joseph (Vice-President), Sr. Claramma Rosary (Secretary), Mr. Ajith Kumar J.P. (Jt. Secretary), Prof. Sherin Sam Jose (Convener), Ms. Jiss Abraham (Treasurer), Prof. K. Ajayakumar and Bijo M.D. (Members).

DEPT. OF COMPUTER SCIENCE & ENGINEERING

www.r4radio.com

feel the beat from the young hearts of CSE...

'r4radio' is an internet radio station from Amaljiyothi, an initiative of the Dept. of the Computer Science and Engg. under IEDC. The first internet radio from an engineering college in Kerala, besides developing creative skills of students, provides facilities for broadcasting third party radio channels at a reasonable rate. The creative heads behind this project are **Prof. Manoj T. Joy (HOD)**, **Mr. Shaan Geo**, **Ajith Mathew**, **Arjun Gopal**, **Vimal Jose(S6)**.

Ms. Lisha Varghese, led a seminar on Basics of Internet Technologies at St. Thomas Training College, Pala on 8th May 2010.

Mr. Santhoshkumar G S, and **Ms. Sangeetha**, attended an STTP on **"Data Structure and Disaster Recovery"** at MCET, Pollachi from 10th to 23rd May 2010. **S8 CSE** and **MCA students** presented 15 research papers in **National** and **International conferences** held at ToCh Institute of Technology, Marian College, Kuttikanam and Jyothi College of Engg., Thrissur.



Josekutty Abraham(S4) secured first prize in Web Designing and Poster Designing- NAKSHATRA'10 ,St.Gits College of Engg. - 12 Mar.

Josme John and Princy Mariam Daniel(s4) won first prize in Theme Show - NAKSHATRA'10

Karthik M(S4) bagged 1st prize in Technical Quiz at INTERFACE'09 -SCS,MG University - 11, Dec

Paul Emil Johnson(S6) won 1st prize in Paper Presentation at CONJURA'10 -TKM College of Engg., and Project Presentation-APURVA'10 -College of Engg., Kidangoor - 25 Feb.

Arjun Gopal(S6) won first prize in Web Designing at IGNITE'10 -Marian College of Engg. - 29 Jan.

DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING.



Prof. Paul Thomas has assumed charge as Coordinator, M.Tech. Programmes and Director, Academic Enterprises Solutions (AES), of the College. Earlier at ISRO for 20 years in the design, development and fabrication of Telemetry, he worked in the software industry (IBS and UST Global) for 10 years managing development projects in various domains and technologies. He is a life member in National Institution for Quality and Reliability, Astronautical Society of India and Project Management Institute, Pennsylvania.

Staff development programmes

A staff enrichment programme was led by Mr. Madhavan Nair on 23rd & 24th Feb.

Contribution by staff and students

Mr. R. Jayachandran was selected for a presentation in All Kerala Principal's meet org. by Wipro at Kakkanad.

International Conferences:

The Dept. along with the Dept of IT organized a two-day International Conference 'ICACC 10'.

Prof.K.G.Satheeshkumar, Prof.Liju V Oommen, Prof.Geevarghese Titus, Prof. Muhammed Nadeer T.M and Mr. Jose J. Edathala reviewed the papers and Dr. James Jacob, Dean and Prof Paul Thomas chaired the sessions.

Dept library

There has been an addition of 200 books to the dept. library raising the number it to 1400.

Prizes won by students

Jilt Sebastian of S6 won the first prize with A grade in MG university youth festival in painting.

S.Ajesh of S6 won 3rd with A grade at MG University Youth festival in Fancy dress.

R & D

Mr. Sunish Kumar O.S. and Mr. Muhammed Nadeer executed a project "Labview based PID controller for temperature control in a furnace used for Z-Scan experiment" in Raman Research Institute, Bangalore.

CONTINUING LECTURE SERIES

Seminar on "Power Diode" led by Mr. S.Arun.

Seminar on "Power Quality in Deregulated Power Systems" by Mr. T. Sreekumar.

Seminar on "Power Flow Between Two Buses using MATLAB /SIMULINK" led by Prof. A. Sivasubramanian.

Seminar on "Electrical Accidents" — Prof. V.I Cherian.

Seminar on "State Enumeration of Power Systems" - P. C. Thomas.

Ajit Paul (S8) scored high grade in GATE and is joined M.Tech at NIT Calicut.

ELECTRIFYING ACHIEVEMENTS



CONSULTANCY

Consultancy for electrification of two sites at Erumeli Gramapanchayath- Apr 10.

M.Tech. Programme

The newly sanctioned M.Tech. in Power Electronics and Power Systems commenced on 14th Dec. 09.

TRAINING for M.Tech.

A training programme for M.Tech. students was led by Dr. P.A. Balakrishnan, Dean of Electrical Sciences, Kumaraguru College of Technology, Coimbatore on 29 Jan.

CAPART

Mr. Joffie Jacob, Mr. T. Sreekumar and Mr. Sijo George evaluated CAPART projects on "Roof Top Rainwater Harvesting Scheme" at Alappuzha and Angamaly.

Adarsh and Libin Varghese, S8 executed the project "Temple Security System" under the direction of Mr. M.J. Romison.

The project "Coconut Climbing Machine" developed by Jerin Jose, Nikhil K. James, Grinson Gregory, Anu Varghese and Mary Deepa K.J (S8) was selected for the I²U project contest.

DEPT. OF INFORMATION TECHNOLOGY

Invited Lectures

Dr. Adarsh Ramakumar, Principal Investigator & Senior Bioinformatics Analyst, Department of Defense, USA, delivered a talk on "At the Crossroads of Information Technology- Bioinformatics", to the faculty from IT, CSE & ECE. He explained the gamut of bioinformatics research in the 21st century and exhorted the faculty to actively involve themselves in research.

ICACC-2010

Dr. Prahlad Vadakkepat, National University of Singapore, and Fr. Biju John, Kingston University, London, delivered keynote addresses.



Prof. Ranjit Abraham led a one-day workshop on "Selecting and Executing a Student Project" for S6 and a workshop on "Leveraging the Internet" for the faculty and staff.

As a prelude to the 'International Conference on Advanced Computing and Communication', Prof. Ranjit Abraham led a class for IT, CSE & ECE faculty on the methodology for carrying out review of research manuscripts. Participants were provided with a template to be used for reviewing manuscripts.

IT Association organized a seminar on "**Microsoft - Top Five Secrets**" led by Mr. Anoop Madhusudanan, Solution Architect, UST Global, on 15th Mar.

Extracurricular Achievements

"Lijo Sebastian and Midhila Joseph(S6) won the "Kalaprathibha" and "Kalathilakam" titles at "Sarang 10" hosted by MG University

"Jilson Thomas and Nikhil Cherian(S4) won 1st Prize in Web Designing at "Brahma 2010" held at Adi Sankara, Kalady.

"Gayathri Krishnan, Shiney Varghese and Reenu Susan Raju(S6) won 2nd prize in Fashion Show at "Crossroads" held at Mar Baselios, Tvm.

"Noble Sebastian won 2nd in MG Univ. Badminton tournament held at St Peters College. Kolencherry.

Publications

Mr. Ebey S Raj presented "A model of Distributed Ayurvedic Diagnosis and Therapy System" in the International Symposium on Innovations in Natural Computing- INC'09. The paper is included in the proceedings of the World Congress on Nature and Biologically Inspired Computing (NaBIC'09) published by the IEEE Computer Society.



Mr. Satheeshkumar Menon, General Manager, ESRI Inc., Dubai, delivered the talk, "Strategies for the 21st century Workplace" for 8th sem students of IT, CSE & ECE on 13th Feb. The talk highlighted various tips for a fresher to achieve a successful career in industry.

Ms. Daisy Saji- "Green Life Security"—National Conference on Next Generation Computing Paradigms (NCNGCP '10)—Toc-H Institute of Science & Technology.

Mr. Arun M Nair—"Applications of Patterns in JADE Environment"—National Conference on Soft Computing—Marian College, Kuttikkanam.

Ms. Midhuna Jyothi R and Mr. Thomas Varughese—"PAC-IP based Performance Enhancement for Ad hoc Wireless Networks"—International Conference on Computational Systems.

Ms. Sandhya Ramakrishnan and Mr. Ebey S Raj—"Agent Based Electronic Commerce System"—Second International Conference on Intelligent Science and Technology—Sun College of Engineering, 2010.

Anju Maria, Ann Maria Mathew, Alby Thomas, Veena Rani, Sayana Catherin Paul, Preethimol B Aarthayil, (S8)-"Network Management Using Mobile Agents"—National Conference on Emerging Trends in Computing 2010.

DEPT. OF MECHANICAL ENGINEERING

John Jose Pattery & Jittu Varghese Kurian (S8) bagged First Prize at Presentation Ad-10 — Musaliar College of Engg. & Tech., Pathanamthitta— 4th & 5th Mar

Paper Presentation — (Mexsym) 'Conjura 10' — TKM College of Engg. Kollam—25-28th Feb.

Project Presentation(Avatar) 'Apurva 2010' — College of Engg. Kidangoor—12th & 13th Mar

Capart

Prof. Sherin Sam Jose & Mr Ajithkumar J.P conducted

CAPART project evaluation on "Rainwater Harvesting" at Trivandrum on 11th & 12th Mar.

Student project

Robot for Borewell Rescue by John Jose Pattery (S8) won 2nd prize at Infocom 2010 at Culcutta - a National level project contest, Culcutta, 20th -23rd Jan. 2010.

Coconut Harvesting Machine developed by John Jose Pattery & Jittu Varghese Kurian (S8) secured a funding of Rs One lakh from the Directorate of Industries & Commerce, Govt. of Kerala.



Dr. Jippu Jacob has joined as Professor and Project Co-ordinator (TIFAC-CORE) in the Dept. of ME. He obtained his B.Tech in agricultural engg. from Allahabad University, and both M. Tech. and Ph. D. from I.I.T., Kharagpur, specializing in Farm Machinery. He served in the Kerala Agricultural

University for 33 years, including 21 years at Kelappaji College of Agricultural Engg., Thavanur, also Member of the *Academic Council of the University* for three terms. Most notable among his inventions is the *coconut husking tool* named *Keramithra*, which is widely popular all over India and abroad. This invention fetched him, jointly with Er. Joby Bastian, the *Republic Day 1999 Award for Meritorious Inventions* from the National Research and Dev. Corpn.(NRDC), Govt. of India. Jointly with his

Coconut Husking Tool
Patent No. 192670
25.8.1995



associates, he holds *two patents*; one for the *coconut husking tool* and the other for a *basin lister*, an attachment to a power tiller to facilitate the making of basins around coconut trees. He has to his credit other inventions too and several publications in journals; both national and international.

INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE (IEDC)

Training programs

1. An "Entrepreneur Awareness Program" was conducted by the IEDC in association with Entrepreneur Development Institute of India, Ahmedabad 15-17 Jan. 2010.
2. 'I am an Entrepreneur', program in association with Technology Business Incubator, Technopark, Trivandrum, on 03rd March
3. Also organized **i2U** 2010 contest on "Safe & Green Habitat". Out of 66 proposals received, 11 were selected for a funding of Rs. 10,000/- for product development. Further, five of these were selected for Rs. One lakh each funding from IEDC & DST. The selected projects are (i) Coconut climbing robot (ii) Low cost room A/C (iii) Rubber tapping machine (iv) Pepper separator (v) Intelligent automated fan

DEPARTMENTS OF BASIC SCIENCES & HUMANITIES

NANOSAT-10

Depts. of Basic Sciences and Humanities jointly conducted a National Conference in Nanoscience and Technology, NANOSAT-10 on 22 & 23, April. Dr. Sabu Thomas, Director, Centre for Nanoscience, M.G University inaugurated the conference. Mr. Ajesh Zachariah from School of Chemical Sciences, M.G University, won the 'Young Researcher Award'.



General Clubs

Dr. Soney C. George, HOD, DBS, coordinated the activities of eight general clubs.

P.T.A. Meetings

S1S2 P.T.A. meetings for all the batches were conducted from 27 to 29 Jan and 1 Feb.

Isaac Newton Lecture Series

The third talk in the series was on 'The New Dimensions of Development in the 21st Century' by Dr. T V Muralivallabhan, Reader in Economics, SVRNSS College, Vazhoor.

Publication of article

Dr. V. J. Sebastian Narively, HOD, Humanities, authored an informative article 'BODY' LANGUAGE in Manorama Year Book – 2010.

National Science Day Celebrations

Dr. George Varghese, Professor of Physics, University of Calicut, inaugurated the Science Day celebrations on 23rd Feb. In the inter collegiate Elocution competition on 'Never put the lighted candle under a bushel'. Simy Dixon, Assumption College, Changanachery, Alina Ann Mathew, Alphonsa College, Pala & Leena Varghese, AJCE bagged the prizes. The debate prize-winners were Derek John Mullassery and Banson Thomas George. The collage competition was won by 1. Sreedhil M Sasidharan and Jino Jose, 2. Geenu Merin Mathew and Pinky Merin Philip. (All AJCE)

World Maths Day Celebrations

Sir Isaac Newton lecture in Maths, was conducted on World Maths Day, ie' 4th Mar. Prof. P.J.Joy, K.E. College, Mannanam, delivered a talk.

Chapters

A chapter "Manufacturing of Multiphase Polymeric Systems" by Dr. Soney C. George and Dr. Sabu Thomas is being published by John Wiley & Sons.

M.Sc Projects

Dr. Soney C. George guided two M.Sc (Chem) projects of S.D.College, Kanjirappally.

Presentation of research paper in conferences

Dr. Soney C. George presented a paper "Elastomeric Nanocomposites" in the International Conference on Advances in Polymer Technology org. by Dept of Polymer Science & Rubber Technology, CUSAT, Feb 26- 27.

Mr.Sreejith K Pisharady presented a paper on 'Characterization of Titanium Phthalocyanine dichloride thin film and its use as gamma radiation sensor' in NANOSAT 10.

Publications in International journals

Mr. Ullas Thomas published a paper on 'Topological Set Indexers of Graphs' in Far East Journal of Mathematics.

Dr.Soney C. George, Ms.Viju Susan Mathew, Ms.Meera. A.P., published a paper 'Epoxy Resin / Liquid Natural Rubber System'

International Year of Science

DBS celebrated International Year of Science and the 400th anniversary of the discovery of the telescope. Nithin Kumar Edward and Reshma Mathew won prizes for the best article on 'The History of Science'.

PLACEMENT CENTRE

CAMPUS RECRUITMENT

Delegates from Tata Consultancy Services visited the campus on 29 Jan and selected 28 final year students.

SPECTRUM had their milk-round at the College on 16 Feb and recruited 44 final year students.

Other prime campus recruiters this year were HCL, UST Global and GALFAR a leading company in Sultanate of Oman also visited the campus for recruitment.



PHYSICAL EDUCATION

Annual Sports Day

The Annual Sports Day saw the Amalites on cloud nine. In a medley of events in which hundreds of challengers vied for honors, Nithin Cherian (S4 ME) emerged as the Individual Champion (Boys) and Deny Thomas (S8 ECE) as the Individual Champion (Girls).

ARENA 2010

Arena, a 4-day all-Kerala inter-engineering college basketball tourney is an annual feature of Amal Jyothi. This year also witnessed this megafete in all its magnificence. Out of the 16 top rated teams that contested, Mar Baselios, Trivandrum, clinched the top spot, pushing Amal Jyothi to be the runner-up.

ARENA 2K10



aZure



TOPPERS



ANU VARGHESE
EEE - S7



ANU SEBASTISN
S7 CE



SURYA MERRY SCARIA
S7 ECE



TEENA ELIZABETH
SEBASTIAN S7 CSE



NAVEEN GEORGE
MATHEW S7 ME



GLITTY SARA JACOB
S7 IT



AFSAL A KAREEM
ME - S5



ANET JOSE
EEE - S5



ARJUN GOPAL
S5 CSE



ASWANI T.R.
S5 IT



BIJO M.D.
CE - S5



JILT SEBASTIAN
ECE S5



ADHARSHA MIRIAM
ABRAHAM S3 EEE



AHANA SHAJI
S3 ECE



JEENU MATHAI
S3 CE



K.R. ABHILASH
S3 CSE



RICHU GEEVARGHESE
SAMUEL S3 ME



STEFFI ELIZABETH
MATHEW S3 IT