



## Information and Technology – key for development

Chief Minister Sri. Oommen Chandy



The twin mega events - Kerala Technological Congress (KETCON-2016), and TECHFEST, jointly organized by APJ Abdul Kalam Technological University (KTU), and the Kerala State Council for Science Technology and Environment (KSCSTE) held at AJCE was inaugurated by Dr. Kuncheria P. Issac, Vice Chancellor, KTU,



Innovation Council, Prof. George Varghese, Director, KSCSTE, Dr. V. Ajit Prabhu, Joint Director, KSCSTE, Dr. Job Kurien, Research Advisor, KTU, Rev. Dr. Jose Kannampuzha, Principal, Dr. Jippu Jacob, Eminent Engineer Award winner and KETCON, TECHFEST Organising Secretary spoke.

on 8 Jan. The valedictory function was inaugurated by Hon'ble Chief Minister Sri. Oommen Chandy. Sri. Anto Antony M.P., Dr. N. Jairaj M.L.A, Dr. M. Abdur Rahman, Pro-Vice Chancellor, KTU, Dr. G. Padmakumar, Registrar, KTU, Sri. L. Radhakrishnan IAS, Chairman, Kerala State

## SMART KOTTAYAM



### Student Movement for Activating Regional Transformation:

In association with the Kottayam District Administration, CII Kottayam Chapter together with several schools and colleges in the district, jointly organized SMART KOTTAYAM at Amal Jyothi. It was inaugurated by Mr. U.V. Jose IAS, District Collector in the presence of Ms. Divya S. Iyer IAS, Asst. Collector, Mr. Ajay George Varghese, Chairman, CII Kottayam chapter, Rev. Dr. Jose Kannampuzha, Principal. 12 projects of the 26 selected were from AJCE, the Dept. of Computer Applications being the highest contributor with 6 projects in the final list.

## MODEL ROAD

Dr. N. Jairaj MLA, inaugurating the Model Road (26th Mile to Koovappally), in the presence of Sri. U.V. Kuriakose, Dy.S.P., Kanjirappally, Fr. Varghese Parinthrackal, Manager, Dr. Jose Kannampuzha, Principal, Sri. Madhu, Circle Inspector, Mr. Shinto Kurian, S.I. of Police, Kanjirappally.







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'Amal Jyothi - NeST Center for Fiber Optics Technology' is a Skill development Centre to mould professionals competent to work with Fiber Optic Communication systems. The Center imparts training on the latest technologies on fiber optics along with equipment handling, testing, splicing, troubleshooting etc. The curriculum has been designed by M/s Light Brigade Inc, USA and

approved by organizations like ETA, BICSI etc. Certification is jointly provided by NeST and Light Brigade. The MoU was signed by Ms. Nazneen Jehangir, Executive Director, NeST Group, and Rev. Dr. Jose Kannampuzha, Principal at NeST Tech Park, Kochi, on 6 Nov. 15.

The course was inaugurated by Mr. N. Jehangir- Managing Director, NeST Group, in the presence

of Mr. Larry Johnson - Director, Light Brigade Inc and Mr. U.M. Shafi - Sr. VP - NeST group, on 15 Jan. Dr. Samuel Varghese - Head - Photonics R&D, NeST, Mr. Thanuj T.K. - GM SFO Technologies (NeST FO division), Mr. T.N. Raghunath - Manager, NIFOT, Rev. Dr. Jose Kannampuzha, Dr. Jacob Philip and Prof. K.G. Satheesh Kumar, Head, Dept. of ECE, spoke.



## CENTRE FOR CONTINUING EDUCATION (CCE)

The Dept. of Computer Science and Engineering, started a new venture Centre for Continuing Education (CCE) in association with ISTE. Inaugurated by Dr. Kuncheria. P. Issac on 8th July. CCE focuses on the empowerment of PG students who are keen on an academic career. CCE also supports PG scholars with their research work. Mr. Abraham Kurian IPS, former D.G.P. of UP, Dr. G. Janardhanan, HoD, NITTTR, Chennai, Rev. Fr. Varghese Parinthricksal, Rev. Dr. Jose Kannampuzha, Prof. Manoj T. Joy and Ms. Shiney Thomas, spoke.

## AICERA 15 INTERNATIONAL CONFERENCE ON MANUFACTURING AND MATERIALS



The annual conference AICERA- 2015 (23 & 24 July ) was inaugurated by Sri. M. Narayana Rao, Chairman & Managing Director - Mishra Dhatu Nigam Ltd, Hyderabad. Rev. Dr. Jose Kannapuzha presided. Prof. K. Sreekumar, HoD, ME spoke. Sri. Abhay K. Jha, Head, Maintenance Processing Division, VSSC, Tvm, Sri. K. Bhanusankara Rao, Ministry of Steel Chair, Professor, Mahatma Gandhi Institute of Technology, Hyderabad, Dr. R. Sandhya, Head, Fatigue Studies section, Indira Gandhi Centre for Atomic Research, Kalpakkam, were the keynote speakers.



## MoU with Digital Core



An MoU was signed with Digital Core Technologies for training and placing ECE and EEE students in Embedded Systems on 5 August, 2015 by Mr. S. Thomas, CEO, Digital Core Technologies and Rev. Dr. Jose Kannampuzha, in the presence of Mr. Thomas Paul, Placement Officer and Mr. K.G. Satheesh Kumar. Digital Core will conduct a seminar for students, followed by an aptitude test. Short-listed candidates will undergo an internship program for two weeks at their corporate office. Selected candidates will be awarded job offers

## AMAL JYOTHI CROWNED CHAMPIONS



AJCE emerged as the winners of the research expo, SHASTRA -16, an annual technical festival held at IIT Madras, on 23 Jan. The award comprised Rs. 1 lakh, citation and a certificate. The team consisting of B.Tech third year Chemical Engg students Dan Jose, Allan Jose Sabu and K. Chandudas and their mentor Dr. Soney C. George, bagged the coveted award for their innovation 'Converting waste plastic materials into transport grade fuel'. Considering plastic property as a hazardous material for the environment, this innovation is a highly promising one. Research is on to make the process more viable and commercial.

## Advances in Wireless Communication and Networking



The Dept. of ECE organized a 2 day Science Academy Lecture workshop on Advances in Wireless Communication and Networking. It was inaugurated by Dr. A. Chockalingam, Professor, IISc. Bangalore, and IIIT Hyderabad on 23 July. The workshop was sponsored by the Indian Academy of Science, Bangalore, Indian National Science Academy, New Delhi, and The National Academy of Sciences, Allahabad. The main topics were Next Generation Wireless, Convex Optimization and Visible Light Wireless Communications. About 150 participants attended.

## ASIAN - AMAL JYOTHI PETROLEUM AND CONSTRUCTION TECHNOLOGY



An MoU was signed between Asian Institute of Petroleum and Construction Technology and Amal Jyothi for conducting training classes for plus B.Tech passed/failed students from Kottayam district in QA/QC Mechanical NDT, QC, Piping and Pipeline Engineering.

## Aspire '15

Centre for Continuing Education (CCE) & Dept. of CSE with ISTE Kerala Section and NIDY (National Institute for Development of Youth) organized a 5-day workshop 'Aspire '15' from 6th to 10th July. Resource persons from different areas - Prof D.B. Phatak, IIT

Bombay, Dr. Sabu Thomas, Director, School of Chemical Science, MG Uty, Rev. Dr. Jose Kannampuzha, Dr. Job Kurien, Former Dean & HOD, Aerospace Engineering, IIT Madras, Dr. Philips Koshy, Senior Software Engineer, NVIDIA, Singapore, Dr. G. Janardhanan,

Professor & HOD, NITTTR Chennai, Rev. Dr. Tomy Tharayil, Director, Danahalya, Punnapra, Dr. Jippu Jacob, Dr. Sebastian Narively, Dr. Jacob Philip, Founder-Director, STIC Cusat, Mr. Joe A. Skaria, Times of India, Dr. Soney C George, Professor, Nanotechnology, AJCE and Mr. M. Jayakrishnan, IIT Bombay. were involved. Ms. Teenu Therese Paul coordinated the program.







Dept. of ME in consultation with local self-governing bodies, deputed students for community work at Mundakayam Grama Panchayath to create awareness on 'Reducing, Refusing and Recycling' of plastic materials among the people. This was part of the 'Zero Waste Kottayam' initiative. 40 students of B.Tech-2nd year ME delivered this message to every household of the Panchayath from 30th June to 4th July.

## 'FROM MEDIOCRITY TO EXCELLENCE'

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A seminar on 'From Mediocrity to Excellence' was jointly organized by the Dept. of ME and Institution of Engineers, Mechanical Students' Chapter India on 12 Aug. The sessions were led by Mr. V.S.K. Shenoy, Manager, HSE Training KNPC Mina - Al-Ahamadi Refinery, Kuwait.

## NACORE'16



The Depts. of CSE & Computer Applications jointly organized the national conference NACORE '16 in association with ISTE Kerala and KSCSTE (Jan 28-30) with the theme of Cyber Security. It comprised workshops on 'Cyber Crime and Online Safety' led by Dr. P. Vinod Bhattathiripad, Cyber Forensic Consultant, and 'Cyber Security Issues and Concerns' led by Mr. Arun, Cyber Consultant.

## CONCRETE MIX DESIGN



Under the initiative of Indian Concrete Institute (ICI), Amal Jyothi chapter, the Dept of CE organized a one day workshop on 'Concrete Mix Design' inaugurated by Er. M A Joseph and Er. Akash Syam, Ultra Tech Cements on, Sept.19.

## Inspire 1 K youth for innovation and entrepreneurship

IEDC in association with Dhanam Magazine is organizing a programme to inspire and train 1000 youth in order to prepare them for innovation and entrepreneurship. Dr. M. Beena IAS, MD, KSIDC inaugurated. Rev. Dr. Jose Kannampuzha, Principal, Dr. Jacob Philip, Prof. Sherin Thampi spoke. This programme is scheduled for 20 batches, duration of the programmes is two days. Each batch consists of 50 students.



## MoU signed between AJCE and Kelachandra Machines



Under the ASAP (Additional Skill Acquisition Programme) initiative of the Higher Education dept. of Govt. of Kerala, Kelachandra Machines and Amal Jyothi entered into an MoU. Kelachandra will support AJCE in the skill training programme by providing the internship facilities to the students under the ASAP-DAT scheme. Mr. Philip Thomas, Managing Director, Kelachandra Machines, and Rev. Dr. Jose Kannampuzha, Principal signed the MoU.



## Science Popularization Programme



Science Popularisation Programme on Introduction of Polymer Chemistry to Undergraduate students of Mahatma Gandhi University was inaugurated by Dr. K.N. Ninan, Former Outstanding Scientist, VSSC and Emeritus Professor of Indian Institute of Space Technology, Tvm. on 13 Nov. Dr. James Jacob, Dean R&D presided and Dr. Soney C. George and Dr. Abin Manoj are spoke. Organized by Amal Jyothi Center for Nanoscience and Technology and Dept. of Basic Sciences it was sponsored by KSCSTE.

## Nature Pixels 2K15

Dept. of CSE and Shutterbugs Club of AJCE conducted 3-day Nature and Photography camp 'Nature Pixels 2K15' from 7th to 9th of Aug, at Periyar Tiger Reserve, Thekkady, with active support from the Periyar Forest Division and Dr. Ullas G. Kallapura, an avid photographer and travel enthusiast. Ms. Shany Jophin, AP, CSE, coordinated the camp.



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## NIDY - Mathrubhumi - Scholarship



NIDY in collaboration with Mathrubhumi and the CSE Dept. organized a state-wide scholarship exam for school students. Around 2000 students from 25 schools participated in the preliminary examination conducted at 7 different centers

on 30th Oct. At the valedictory function, Ms. Padmini Gopinath, Vice Chairperson of Central Administrative Tribunal, Kochi, and Mr. P. K. Gopinath, Director, Central Vigilance Commission and Chief Post Master General (UP and Delhi) were the Guests of

Honour. Rev. Fr. Varghese Parinthricksal, Rev. Dr. Jose Kannampuzha, Mr. T. Suresh, Unit Manager, Mathrubhumi, Ktm, and Mr. Abraham Kurien IPS, Director, NIDY spoke. Prof. Manoj T. Joy, HoD, CSE, and Ms. Shamini James were the Coordinators.

## BLESSING OF CAD LAB



Civil Engineering CAD LAB blessing by Rev Fr. Varghese Parinthricksal, Manager.

## AUTOCAD TRAINING FOR FACULTY



Dept. of CE organized a short-term training program for the faculty and staff on AutoCAD from 23rd to 27th Nov. A short-term training program on Total Station was also conducted for technical staff.



# STUDENTS ACHIEVEMENTS

## PROCOMP – 2015

*Students Council 2015-16*



AJCE won the first prize at the prestigious B.Tech final year project competition ProComp 2014-15 held at AISAT on 06th June. It was jointly organized by the Graduates Association of Consultant Engineers (GRACE) and Albertian Institute of Science and Technology, Ernakulam.



## *'Latex Carry Back Pack' & 'Advanced Hair Coloring Tech'*



Following projects have won accolades at Techtop 2015.

Techtop: - 'Latex Carry Back Pack'.

– S1S2 students- Ajin Omanakuttan, Alen Anil, Mintu Elizabeth Shaji (S1S2 EEE) and S. Parameswaran (S1S2 ECE) Noel Peter (S1-ME) – Guided by Prof. Abi Varghese (ME) won 1st prize for Latino-Latex Carry backpack at Enterprenia 2015 at NSSS College of Engg, Palakkad

## M.Tech (PEPS & ES) Student project exhibition



### Glimpses

The 1st batch of the M.Tech-Energy Systems completing their final projects – Glimpses



## External project submission

Submitted 2 student projects to IE Kochi –B. Sreenath S7 - 2 Projects, Smart Energy Meter, Overhead Distribution Line Fault Detector

SPV Technician Course shortlisted for ASAP by KSCSTE, Tvm. Initiative by Mr. Victor Jose and Mr. Jose Philip

Proposal for "Energy Conservation Award-2015" instituted by EMC Tvm submitted by Mr. Aju S. Nair.

## Continuing Education

Mr. K.M. Manoj, Ms. K.B. Praseetha, Ms. Rajitha Rajan and Mr. Jose Philip obtained certification in 'Digital Circuits and Systems' and "Health, Safety and Environmental Mangement" from NPTEL (Course delivery by IIT Madras) in March 2015.



## Industrial Visits

B.Tech-S6 EEE Students (2012-16 Batch) had an Industrial Visit to Clean Tech, NOIDA.

B.Tech-S4 EEE Students (2013-17 Batch) had an Ind. Visit to ICRISAT, Patancheru, Hyderabad.



M.Tech - S2 PEPS & ES - Industrial Visit to Pallivasal Power House .

## PAPER PRESENTATIONS/CONFERENCES/TRAINING/PROGRAMME ATTENDED

Faculty	Branch	Name of Paper/Course/FDP/STTP	Venue / Date
Ms. Therese Yamuna Mahesh	ECE	Human Identification using the features of the sclera region of the eye. Analysis of Program Outcomes Attainment for Engineering Graduates for NBA Accreditation.	ARCCE, Vol.4, Issue 9, Sept. 2015 JITS, Vol.1, Issue 2, Aug 2015
Ms. P. Darsana. Ms. Alina John	ECE	An Improved Energy Efficient Protocol for Clock Synchronization in Wireless Sensor Networks.	IJIRCE, Vol.3, Issue 9, Sept. 2015
Mr. Binu C. Pillai Mr. Binoshi Samuel	ECE	High speed adc design and layout using 180NM cmos technology.	IJARCE, Vol.4, Issue12, Dec. 2015
Mr. Binu Mathew Ms. Anju Mariam Abraham	ECE	Analysis of LTE Physical Layer.	IJAREEIE, Vol.4, Issue 9, Sept. 2015
Mr. Ajai Mathew Ms. Deepa Joseph	ECE	Content Based Image Retrieval of Corel Images Along With Face Recognition.	IJCSMC, Vol.4, Issue.11, Nov. 2015
Mr. Juby Mathew	MCA	Six-day Saksham Training Workshop by Microsoft & KTU.	Rajagiri School of Engg & Technology, 14-19 Sept.
Ms. Merin Manoj, Ms. Lisha Varghese, Ms. Anit James, Ms. Ankitha Philip, Ms. Sruthimol Kurien, Ms. Nimmy Francis, Ms. Binimol Babu	MCA	Technical Communication, IIT Bombay	Remote Centre of AJCE, Kply. 30 Nov-15 Dec 2015.
Mr. Jinson Devis, Ms. Nimmy Francis	MCA	India IT Summit organized by CII.	Hotel Radisson Blu Kochi. 12 Dec 2015.
Ms. Merin Manoj	MCA	Continuing education and Quality Improvement Programme (CE & QIP).	IIT Bombay. 24-28 Aug 2015.
Mr. G.S. Santhoshkumar	CSE	Table Driven Source Routing Protocol For Mobile Ad-hoc Networks.	ICACCI'15, SCMS, Kochi, 13 Aug 2015.
Mr. V. Jayakrishna	CSE	2D Image Reconstruction after Removal of Detected Salient Regions using Exemplar-Based Image in painting.	SPRINGER-Innovations in Bio-Inspired Computing & Applications. Vol. 424/Pp417-26.
Mr. Shiney Thomas	CSE	Reversible Watermarking using Image Content Assessment & Histogram Shifting.	ICACC, from 3 to 5 Sept. 2015 at RSET.
Mr. G. Krishna Lal	CSE	Advances in Signal Processing and Intelligent Recognition Systems.	Springer Link Digital Library.
Ms. Shiney Thomas	CSE	A Low Distortion Reversible Data Hiding Technique using Improved PPVO Predictor.	ICETEST from 8 to 11 Dec. Govt.Engg College, Trichur.
Ms. V. Jayakrishna	CSE	Advances in Wireless Communication and Networking.	Dept. of ECE, AJCE, on 23 July.
Ms. Niya Joseph	CSE	Fingerprint Image Compression using Sparse Representation and Enhancement with Wiener2 Filter.	IJCATR (Vol4- Issue 11.
Ms. S. Sruthi	CSE	Comparison of online record linkage techniques.	IRJET, Vol: 02 Issue: 09  Dec-2015.
Mr. Jerin Thomas Ms. Christy Elizabeth	CSE	Segmentation of Tooth and Pulp from Dental Radiographs.	IJSER, Vol:6, Issue11, Nov-2015 115 ISSN 2229-5518.
Ms. Neethu C. Sekhar	CSE	A New Technique for Face Matching after Plastic Surgery in Forensics.	IJARCE, Vol .4, Issue 11, Nov. 2015.
Ms. R. Neenu	CSE	Optimal Route Search using Spatial Keyword Query.	
Ms. Rani Chacko	EEE	FDP on "Art of Publication & Craft of Research".	AJCE, 7 Apr.
Mr. B. Sreenath, Ms. B. Midhu Das	EEE	"Power Electronics for Grid Connected Renewable Energy Systems".	14 to 16 May, NIT, Calicut
Ms. Rani Chacko, Mr. Victor Jose	EEE	Environmental Studies.	ISTE STTP - MHRD -NMEICT at AJCE by IIT Bombay - Project T10kT, 2-12 June 2015.



*Always in our Hearts*

**JIBY ZACHARIAS**  
**Lab Instructor**  
**ME**



### Training Programme

- ☞ B.Tech graduands (2011-15 batch ) underwent a training session in Electrical Systems Design – Conducted by Sigmos, Ernakulam.
- ☞ Induction training programe and community service for B.Tech-S3 and S5 students at 'Nalla Samarayan Ashram', Kajirappally.



# TOPPERS

*Congratulations...*



DENNIS R. THOMAS  
AUE S2



ANEETA CICI GEORGE  
CE S2



ABIN JAMES  
CSE S2



JESTIN JOSE  
CH S2



O. MUBASHIR  
ECE S2



MINTU ELIZABETH SHAJI  
EEE S2



PRIYA XAVIER  
IT S2



TOM JOSE  
ME S2



EBBIE V. AYROOKUZHAY  
MT S2



ASHWIN T. JOSEPH  
MT S2



GOVIND REGHUNATH  
AUE S4



PHILBIN M. PHILIP  
CE S4



GEETHU ALPHONSA JOSE  
CSE S4



KARTHIKA K. NAMBOOTHIRI  
CH S4



SHINTU KURIAN  
ECE S4



DONIA GRACE THOMAS  
EEE S4



DHEERU THOMAS  
IT S4



SUREJ KULANGARA ABRAHAM  
ME S4



IRFAN K. MOIDU  
MT S4



NIVIN BAYER  
AUE S6



SEBASTIAN JAMES  
AUE S6



D. SARATH  
CE S6



JAZAH JAVED  
CSE S6



AMLU ANNA JOSHY  
ECE S6



GEORGE SABU  
EEE S6



NIKHILA THOMAS  
IT S6



SHAHANA SAKKEER  
IT S6



GOKUL S.  
ME S6



ASHIN JOSE  
MT S6



FEBIN RAPHEAL  
AUE S8



NIVEA THOMAS  
CE S8



TESS ZACHARIAS  
CSE S8



ROSU ANTONY  
CSE S8



PRATHIBHA S. NAIR  
ECE S8



SRUTHISREE O. MENON  
EEE S8



CLINT SEBASTIAN  
IT S8



POOJA VISWAM  
IT S8



ALAN VICTOR ALFRED RAJU  
ME S8

## CROWN OF AJCE



RESHMA THANKACHAN  
S8 CE

## Faculty Awards



K.G. SATHEESHKUMAR



P.C. THOMAS



GEEVARGHESE TITUS



J.P. AJITHKUMAR



DR. DILIP KUMAR



JOMS ANTONY



BALARAMIN XAVIER

*Congratulations...*



RICHU THOMAS



JAYASREE P.K.



JAYAKRISHNA V.



SHINOSH MATHEW



SIVA PRASAD M



RAMESH P.D.



RAJESH M.G.



MANOJ JOSEPH



JYOTHIKUMARI P.

## Technotica



'Technotica' a state-level software project contest for BCA, B.Sc. Computer Science and IT students was organized by 'Startups Valley - TBI' at

Amal Jyothi, in association with NIDY & ISTE Kerala section on 1st & 2nd Feb. It was intended to equip students with entrepreneurial skill sets which aim to

produce socially relevant sustainable software products. 18 teams were in the fray with 10 being selected for the finals.