



amalites  
**DigEST**

Amal Jyothi College of Engineering, Kanjirapally, Kerala

Volume 11

Bi-yearly Newsletter

July 2011



Bishop Mar Mathew Arackal  
Our Patron

## *Congratulations...*

Bishop Mar Mathew Arackal, Founder-Patron of Amal Jyothi, has been nominated by the Prime Minister as one of the expert members of the Indira Gandhi Paryavaran Puraskar Committee in recognition of his magnificent services to the society in protecting the environment through major NGOs and other outstanding social welfare projects. Other members are the Vice-President of

India, the Speaker of Lokh Sabha, Union Minister of Environment & Forest, with the Secretary for Forests as the Member Secretary. The award is given annually under both individual and organization categories for significant contributions in the field of environment. The total cash component, besides silver lotus trophies, is Rs. 20 lakh.



"Great dreams of great  
dreamers are always  
transcended."

- A.P.J. Abdul Kalam -



Youva Master Mind - 2011, organised by Malayala Manorama in association with Amal Jyothi College of Engineering, for innovative projects of school and college students from Kerala. Former President A.P.J. Abdul Kalam was the Chief Guest of the valedictory function.



## CONVOCATION - '11

Convocation for the 2007-11 batch was conducted on 25th May with all pomp and ceremony. Ms. Sheela Thomas IAS, Chairperson, Rubber Board of India, was the Guest of Honor. Very Rev. Fr. Mathew Paikatt, Vicar General, presided over the function. Fr. Varghese Parintherickal, Manager and Fr. Jose Kannampuzha, Principal, spoke. Jilt Sebastian (ECE) was selected as the 'Gem of AJCE'.

## Innovative practices and future trends in Engineering Education - AICERA 2011



An Annual International Conference on Emerging Research Areas (AICERA 2011) with the theme Computers and Communication, to promote scientific and educational activities towards the advancement of human life was org. from April 28 to 30, Selected papers were published in the International Journal on Emerging Areas (ISSN 2230-9993). Dr. James Jacob and Prof. Manoj T Joy were the Conference Chair and the Organizing Chair.

### Placement 2010- 11

No. of offers received from following companies: 256

TCS	60
HCL	21
PATNI	49
SYNTEL	25
Subex	1
I B S	16
Accenture	52
South Indian Bank	4
OSM	6
SPECTRUM	22
<b>Total</b>	<b>256</b>

### Congratulations...



**Dr. S. SIVASUBRAMANIAN**  
Received Ph.D  
from MGR Uty., Chennai



**MATHEW JOSEPH**  
M.Tech -  
IIT Bombay



**REYNOLD JOSE**  
M.Tech -  
MIT Madras



**K. S. SUNIL**  
M.Tech -  
IIT Madras

## TOPPERS



**JILT SEBASTIAN**  
ECE - S7



**BIJO MD**  
CE - S7



**ANET JOSE**  
EEE - S7



**AFSALA.KAREEM**  
ME - S7



**ASWINI T. R.**  
IT - S7



**RIYAMOL ANTONY**  
CSE - S7



**TINA MARY SUNNY**  
CE - S5



**TINA MARIA THOMAS**  
CSE - S5



**AHANA SHAJI**  
ECE - S5



**ADHARSHA MIRIAM  
ABRAHAM**  
EEE - S5



**MARIA CLARE  
JAMES**  
IT - S5



**THOMAS V.  
CHRISTY**  
ME - S5



**TISSON GEORGE  
MICHAEL**  
AUE - S3



**ROSHNI  
RAMACHANDRAN**  
CE - S3



**DEEPA ROSE  
THOMAS**  
CSE - S3



**MARIA JOSE**  
ECE - S3



**PILLAI SARESH**  
EEE - S3



**ATHIRA E. V.**  
IT - S3



**PRINCE VINCENT**  
ME - S3



**SEBASTIAN C. PARACKAL**  
Asst. Librarian  
**1st Rank**  
MLiSc. M. G. University

### GEM OF AJCE - 2011



**JILT SEBASTIAN**  
ECE





*Hearty  
Welcome to*

**Prof. K.Vijayan**

Sri. K. Vijayan has joined the Dept. as HOD. Masters in Prodn. Engg., Bachelors in Automobile Engg. Formerly, Dy. Director, Centre for Tech. Dev. Anna University, Chennai and Associate Professor and General Foreman, Dept. of Automobile Engg., Anna University. Member for State Consumer Disputes Redressal Forum, Committee for Technical evaluation of tenders for purchase of vehicles, Govt. of Tamilnadu. Consultant to Motor Vehicles Dept., Govt. of T.N; Vel.Tech. Univ. Chennai; FORD, Chennai; Renault-Nissan Motors, Chennai; Greaves, Chennai; Pricol, Coimbatore.

### **Automobile Engineering lab:**

Equipped with two ISKRA aircraft engines, two diesel engines (Matador, Ambassador), two petrol engines (Maruti 800, Opel), etc.

### **Amal Jyothi Driving Academy**

Four students from Amal Jyothi - Gino Thayyil George (S1S2 CE), Ranitha Anna George (S6 ECE-B), Reenu P.Thomas (S8 ECE-B), Shruthi Rajan Babu(S8 ECE-B) - received licences.



Awaiting AICTE approval for M.Tech in Structural Engg & Construction Mgt. and B.Tech seat enhancement from 90 to 120.

Annie Maria Issac admitted to M.Tech( IISc.), Manu C Peringelil to M Tech(CUSAT).

Short term courses – Primavera and Staad.pro for S5.

Elvi Maria of S4 won the 1st for Spot Event, Prakash John and Akhil S Kottaram of S6 won 2nd in Concept PPT –

Nakshatra'11, national level fest at Saint Gits, Ktm.

Vipin K V, Jerin Joseph of S8 won 2nd place - Survey King, at Dhishna'11, a national level fest at CUSAT.

Gayathri A K of S6 stood 2nd at Yagnadhruva'11, a national meet at LBS Tech, Tvm.

## DEPT. OF COMPUTER SCIENCE AND ENGG.



CSE and MCA students attended seminar led by Internetworkz on Network Routing -Feb 9<sup>th</sup>.

### **Achievements**

"A quiz competition Hardware Geek" was org.by the Hardware & Networking Club on Mar 15; coordinated by Sreehari B.Hedgen and Riyamol Antony (S8). Maria Elsa, Arjun Gopal (S8) officiated as quiz masters. Sandeep Thomas, Sneha Elizabeth Thomas (S8) emerged as winners.

S7 students attended a seminar - on Advanced Networking led by Internetworkz--Mar 24<sup>th</sup>.

Paper presentations - Bindu S Moni - Best Paper Award-- Modified Quadratic Classifier for Handwritten Malayalam Character Recognition --National Conference on Computational Science, 2011 --Rajagiri College of Social Sciences, Feb 4 – 5. Also at CUSAT -Feb 19<sup>th</sup>.

Shaan Geo - International Conference on Emerging Technology Trends 2011 - Basileos Mathews College of Engg., Sasthamkotta - March 25th and 26th .

Shelly Shiju George-Cyber Criminology -UGC-spons. national seminar at BPC College, Piravom- Mar. 3rd , 4th ➤



Prof. Manoj T Joy, Shaan Geo, Syam Gopi, Jinson Devis attended a UGC-spons. national conference- Green Computing at Marian College, Kuttikanam-Jan 20th and 21st.

Elisabeth Thomas attended an International conference- Information Security - ASIET, Kalady-March 4th ,5th.

Rintu Jose(S8) qualified in GATE -2011 with a score of 97.1 (41.6 marks).

Paul Emil Johnson(S8)-1st prize in Paper Presentation at Conjura -- TKMCE,Kollam - 27th Feb.

Josme John, Princy Mariam Daniel(S6)- 2nd prize- Theme Show—Yagna Dhruva-LBSIT for Women ,Tvm- 27th Feb.

Haritha B Chittethe(S4)-Best Singer at Nakshatra'11 --Saint Gits- 3rd March. Also reached the third lap of ASIANET IDEA STAR SINGER. ■

## DEPT. OF ELECTRONICS AND COMMUNICATION ENGG.



*Hearty  
Welcome to*  
**Dr. Rohith Kunnath Raj**

Dr. Rohith Kunnath Raj , Post Doctoral Fellow – Univ. Paris-Est Marne la Vallee, France (2007-2008). 11 yrs. R&D experience in Antennas & Microwave Electronics. Two patents (pending), 27 publications. Recipient of International young scientist award from URSI, Belgium. Reviewer of IEEE Transactions on Antennas and Propagation.

### Staff Development Programmes

K.G Satheeshkumar, HOD- Leveraging Technology for Effective Teaching in the Class room and beyond- IIIT, Bangalore, org. by Dept. of IT , GOI, - 23rd May to 3rd Jun.

Geevarghese Titus attended Co-ordinators' workshop- Basic Electronics - 'Ekalavya@IIT,Bombay.

Therese Yamuna Mahesh, Careena P, Jomy Susan Ipe, Sneha Susan Abraham, Ranjitha Rajan, Indu Reena Varghese and Muth Sebastian- Electronics Education- A System Approach - SJCET Pala.-2-6 May. Papers published

Anish Francis & Geevarghese Titus- Investigation of Channel Capacity of Railway Power Lines for Track and Level Cross Monitoring Application -Springer LNCS-CCIS 2011 & IEEE Xplore.- Presented in Intl. Conference on Recent Trends in ITC - Bangalore – March 10-12, ICETECT- Nagercoil – March 22-24 & AICERA- 2011, Amal Jyothi, 28-30 Apr.

Jaison Varghese, TM Muhammad Nadeer-Pick and Place Color Sensing Robot accepted in IJCA & IJCSI. Presented in ICVCI'11 at Saint Gits - April 7-9.

Jose J Edathala - Performance Evaluation of Dispatching Rules in Assembly Job Shop Scheduling- ICRIT, RIT, Kottayam - Feb 11-13.

O.S Sunish Kumar, Jos Angel, Jacob A Abraham, Anna Vineetha, Anuja S Pillai- Modified Algorithm for Thresholding and Detection of Human Faces in Color Images - Accepted in International Journal on Emerging Research Areas. Presented at AICERA-11.

O.S Sunish Kumar, Stephen Varughese, Sterin Thomas, Sumi R, Treasa Varughese-A Novel Architecture for Distant Patient Monitoring System Using NI Lab VIEW-AICERA-11.

### Achievements - Students

Jilt Sebastian (S8) and Amjith Joy(S6) participated in INFOCOM 2011 in Kolkata with their projects Low Cost Room Air Conditioning System and Mercury Pendulum, respectively.

Arun Chand, Neethu Ann Zachariah, Prem Mammen Thomas, Reenu P Thomas (S8 ECE) and Asha Mathai (S6) participated in TECHTOP 2011-Tvm.

Jees James, Amal Z Joy, Paul Jose Aricatt (S8), Bittu Sebastian, Leo Joseph, Deunia S John, Rosu Jacob, Shilpa R Robin, Pratibha E Thomas, Neeraja John, Nikhil S Korah, Manu



Jilt Sebastian (S8) Secured 1st Prize - Painting Competition  
MG Uty Youth Festival, Ernakulam

Manuel, Robin Mathews P, Sebin Sebastian (S6) secured first prizes in fests held at various colleges.

S.Ajeesh(S8) secured 1st prize  
- Fancy Dress in M.G. University Youth Festival, Ernakulam.



Jijo Paul, Jiju C James of S6 bagged 2nd place at 'INFOCOM 2011' Kolkatta, for the project 'Cocobot'(manually controlled coconut harvesting robot).

George Emmanuel, S6 , won the sports championship- 2011. ■



## DEPT. OF ELECTRICAL AND ELECTRONICS ENGG.

### Staff Training Programme

ISTE-approved training program --Research Domains in Power Electronics & Power Systems- 26-30 May.



Robins Anto attended Co-ordinators' workshop- Voltaics - 'Ekalavya@IIT,Bombay.

CLS (Continuing Lecture Series) – lecture on Bloom Energy – Shinosh Mathew.

M.Tech. students completed industrial trg. at S.Rly., Trichy, KSEB, Idamalayar, KELTRON, Aroor.

The 1st M.Tech batch secured 83% pass in the S1 exams.



A full- fledged Power Electronics Lab for M.Tech 2nd sem.--Set up by Prof. S. Arun and team. ■

Torque, an Auto Expo, part of Azure 11 was a roaring success in terms of the number and variety of exhibits. However, the air show, arranged on the sidelines, stole the limelight.

## DEPT. OF MECHANICAL ENGINEERING Auto Expo 2011



Dr. Jippu Jacob, Professor & Head, Dept. of Mechanical Engg, Member, Technical Committee for Rural Technology Programmes ,KSCSTE, attended its 10th Meeting on 19 April. This committee recommends new project proposals for implementation under RTP and reviews ongoing projects.

Binu Skariah- Co-ordinators' Workshop on Thermodynamics@ IIT Bombay -21 to 25 Feb.

Organised a workshop on Design in association with IIT Mumbai on Jan 22,23.

Jithu Berchmans (S8), Paul Varghese Roy, Thomas.V.Christy (S6) were felicitated for their projects Low Cost Air Conditioning and Mercury Pendulum respectively at Infocom- Kolkata.

Ginu Thomas was selected as the Best Student of the Outgoing ME batch.

### *A Class by himself.....*

K.S.Prasobh, S8 ME, stands head and shoulders above his coevals as a class by himself. A hard worker by nature, he toils meticulously to get along in his twin roles as student and worker. Five days a week, Prasobh is an attentive student in ME classes; on weekends and holidays , he is at the "helm of heavy vehicle affairs" at Kottayam. Be it as driver of tipper lorries, or Sree Vinayaka, Bestin, Kairali buses plying on the Kanjiram-Kottayam-Medical College route, he is super fastidious. Prasobh is set to join SKODA as a Service Engineer trainee.



## DEPT. OF INFORMATION TECHNOLOGY

### Achievements:- Students

2007-2011 students achieved 97% pass in Semester VII University Exam.

Githin James (S6) and team exhibited project --Low Cost Air Conditioner -- INFOCOM 2011, Kolkata.

Subin S, Lalet Scaria (S6) won 1st prize --Web Designing, Lalet Scaria (S6 IT) won 1st prize --Technical Quiz --"INTERFACE", School of Computer Science, MG Uty. Jilson Thomas, Nikhil Cherian (S6) --1st prize --Web Designing in "INCEPTRA 11", Mangalam Engg. College.

### Workshop

A workshop on Internet, Networking and Social Networking Sites -- May 26, 2011 - attended by 32 teachers, Holy Cross International School, Elangoi, Vazhoor. Resource persons--Dr. Ranjit Abraham, Prof. Ms. R. Midhuna Jyothi, Mr.Febin Francis, Ms. K.P. Jyothikumari.

**Accomplishments :- Faculty.** Saumya Sadanandan enrolled for M.Tech programme at NIT, Kozhikode. ■

## DEPT. OF BASIC SCIENCES AND HUMANITIES



National Science Day Celebrations -2011 & Sir Isaac Newton Lecture Series Resource person - Dr.K.P.Sukumaran Nair,HOD-Chemistry, S.D.College, Kanjirappally.

### Training programmes

Dr. Abin Manoj, Kavitha Jacob – Nanotechnology, Govt.Sanskrit College, Pattambi- 4,5 Mar.

Nivia M Mories, Deepamol S, Jasmine Mathew – Algebra, Analysis & Topology--SB College, Changanassery- 25,26 Mar.

Dr.Soney C George--Positron annihilation life time spectroscopy --M.G Uty.- 15 Mar.

### Review of Journal/ Research article

Dr.Soney C George reviewed a research article "Synthesis and Effect of Surface Modified Nano ZnO in Natural Rubber vulcanization --Journal of Applied Polymer Engg Science (John Wiley & Sons)

### Ph.D Programme

Kavitha Jacob has enrolled for Ph.D. at the School of Chemical Sciences, M.G Uty.

### Papers Published In National/ International Journals/conferences

Mr. Ullas Thomas :- SIAM-Journal of Discrete Mathematics has accepted for publication "On Set-Indexers of Paths,Cycles and Related Graphs"

Dr.Soney C George -- Multi-Wall Carbon Nanotubes in the International Conference- Composites and Nano composites ,Jan 7 to 9, 2011, at M.G Uty. His paper 'Natural Rubber-Clay Nanocomposites is accepted for the 19th International Conference on Composites or Nano Engg., July 24-30, in Shanghai, China. A paper Rubber Nanocomposites is accepted in IEEE Nanotechnology

Conference to be held in Oregon, USA -- August 15-18.

Research Proposals Submitted

Dr. Abin Manoj and Dr.Soney C George—1) Submitted to KSCSTE

2) Proposal to AICTE-SDP-in Nanotechnology.

Research/Project guidance

Dr.Soney C George guided 2 M.Sc projects of S.D.College, Kiply. on 'Nanocomposites'. He is also guiding a Ph.D. ■

## I E D C

### NATIONAL ADVISORY BOARD MEETING OF NSTEDB

To promote entrepreneurship development in Kerala we have hosted the prestigious National Advisory board meeting of NSTEDB, DST, Govt. of India on 4th & 5th of February 2011. Prof. N. R. Shetty, President, ISTE, Mr. Sujit Banerjee, Director, NSTEDB, New Delhi, Dr. Rajendra Jagdale, Director General of Science and Technology Park, Pune and around 45 representatives from all over India participated in this programme.



### ENTREPRENEURSHIP AWARENESS CAMP

In association with Entrepreneurship Development Institute of India, Ahmedbad and financial support from NSTEDB, Govt. of India we organized a three - day awareness camp in entrepreneurship from 11 to 13 March 2011.

### MICRO TePP PROGRAMME

As a result of our research initiatives, the following student projects successfully completed their review and evaluation by TePP Monitoring Committee (TMC) at its meeting at Technopark TePP Outreach Centre, held on June 27, 2011. The innovation content, financial feasibility, commercial viability and scalability of the project proposals were the key criteria for evaluation. ■

### NATIONAL ADVISORY BOARD MEETING OF NSTEDB

Inaugurated by Prof. N. R. Shetty, Dr. Rajendra Jagdale, Mr. Sujit Banerjee, Fr. Jose Kannampuzha.





*Congratulations*

Haritha B Chittethe(S4)-  
Best Singer at Nakshatra'11 -  
-Saint Gits- 3rd March.

Reached the third lap of  
ASIANET  
IDEA STAR SINGER.



*Arts Day*

Inaugurated by Cine Artiste Ms Dhanya Mary Varghese

# ARENA



Musical Wizard  
Stephen Deyassy  
enchanting the amalits



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*Historic moments....*



**Master Mind 2011** *Ballistic Icon*

IEDC Amal Jyothi, as the Technical partner for Malayala Manorama's Yuva Master Mind Contest, contributed significantly to the successful completion of the event. The final exhibition of 37 funded projects were held at Amal Jyothi and the prize award ceremony was held on 19<sup>th</sup>. Dr. A.P.J. Abdul Kalam, former President of India was the chief guest and keynote speaker. Apart from the cash prizes instituted by Manorama totalling Rs. 3 lakh, two special prizes instituted by Amal Jyothi in memory of late Pro. Satish John of ECE Dept., were also given away by Dr. Kalam. The prizes carried a cash award of Rs. 60000 at college level and Rs. 40000 at school level for the best projects in the area of "human safety".



*Canada of Masterminds*



Jacob Mathew Executive Editor, Manorama - *Putting it across*



*The Ignite*



*Creating warmth*

*Holding court*



*Inspiration with love*

*Recalculating to the victors*



*The team that made it happen*



*Enthralled*



*For Posterity*



*Summing up - Mathews Varghese*



*Fluid compere*

**YUVA MASTER MIND 2012**

Malayala Manorama has again chosen IEDC, Amal Jyothi as technical partner for the ongoing Yuva Master Mind 2012 competition. The contest was announced on 27<sup>th</sup> June 2011. Details may be found on: [www.manoramaonline.com/yuvamastermind](http://www.manoramaonline.com/yuvamastermind)