model

engineering

college

placement brochure 2013

Sequence

ABOUTUS

" To evolve into an academy of excellence to serve the emerging knowledge based society "

Established in	:	1989
Location	:	Thrikkakara, Cochin
Established under	:	IHRDE (now IHRD)
Affiliated to	:	CUSAT
Courses accredition	:	NBA
Courses Offered	:	B.Tech, M.Tech & Research programme.

Model Engineering College, established in 1989, by the Government of Kerala is the first college to be affiliated to the Cochin University of Science And Technology(CUSAT). Admissions to the institution are purely based on merit in the Kerala Engineering Entrance Examination conducted by the Commissioner of Entrance Examination, Government of Kerala and out of the 1.2 lakh aspirants only the finest talents make it to MEC.

MEC has always made its presence felt in the educational arena through its accomplishments. In the ratings published by reputed magazines like Outlook and Mint, MEC ranks high among all the government and private engineering institutions in the country. The college has witnessed record breaking placements and has outperformed many other top colleges.

Self reliable and capable young professionals born out of the college have succeeded in proving their worth to the outside world and the alumni bear a testimony of this stature of the college.

WHY RECRUIT FROM **MEC** ?

- MEC was ranked **47th** among the top 75 government and private engineering colleges in the country by **OUTLOOK** in 2011. It is the only college in Kerala which made it to the top 50 in the ranking.

- livemint.com featured MEC at the **28th** position among the top 50 Govt. Engineering Colleges in India in the year 2009, compared to 37th in the previous year.
- In the same ranking MEC was ranked **4th** best in terms of industrial interaction in the country.

- MEC was placed **5th** among the top 10 Engineering Colleges in India in 'Return On Investment' ranking by Outlook.
- NVIDIA, SAP, ERICSSON and YAHOO! are few among the top notch companies that visit the campus.

- The exemplary performance of MECians in internships have been appreciated by top companies like zynga, Deloitte. and NATIONAL INSTRUMENTS through PPOs.
- MECians have been the exclusive choice for reputed companies like Capital IQ A Standard & Poor's Business and COSMIC circuits.

- MEC is the very first institution under CUSAT to be recognised as a Research Centre.
- MECians always make it to the top ranks and the college has the highest pass percentage among all the colleges under the CUSAT university.
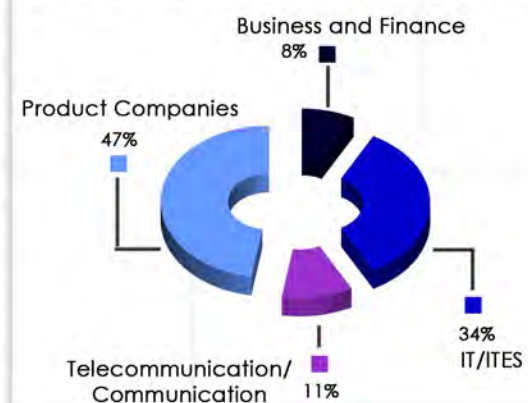
PLACEMENT

PLACEMENT & TRAINING

Training and Placement Cell has been established with a view to provide employment opportunities for the students. The Cell conducts training programmes to prepare the students to face the recruitment process and to meet the needs of the industry. It is the bridge between the industry and the college. Facilities required to conduct Pre-Placement Talks, Written Tests, Interviews and Group Discussions are made available by the Placement Cell.

Sector wise Placement chart for the year 2010-11

- Business and Finance 8%
- Product Companies 47%
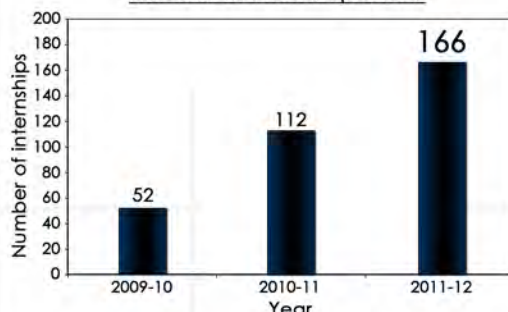- Telecommunication/Communication 11%
- IT/ITES 34%

INTERNSHIP

Pre-final year students take up a 2 month long Summer Internship, starting from May in eminent organisations to understand the dynamics of the industry and thus moulding them into better professionals. Companies unable to visit the campus select students based on their resumes, telephonic interviews or on site interviews.

Number of Internship Offers

Year	Number of Internships
2009-10	52
2010-11	112
2011-12	166

COMPANIES THAT HAVE OFFERED INTERNSHIPS

VOX spectrum, KEL, Robosoft Technologies, Invendis, COCHIN SHIPYARD LTD, Biosense, Cipla, CALPINE TECHNOLOGIES, Kalkitech, Carinov Systems (P) Ltd., EXOR India Pvt. Ltd., IBM, SUKSH, HCL, BHARAT ELECTRONICS, COSMIC circuits, Google Summer of Code 2011, ARBITRON, Ittiam, Honeywell, Capital IQ, KELTRON, GE Healthcare, zynga, ARTIN DYNAMICS, NATIONAL INSTRUMENTS, Deloitte, taggle, Envizions, SCM MICROSYSTEMS, ORACLE, HiveMind, Citi, mindhelix technologies, FACT, Hindustan Unilever Limited, Nokia Siemens Networks, NIC, VisualIQ, BSNL, NgoFuel, OnMobile, C-DOT, NETLOGIC MICROSYSTEMS, megarth

"RECRUITERS SPEAK"

NVIDIA
"Really great. You guys go the extra mile. Appreciate it."

YAHOO!
"AWESOME!"

Deloitte.
"It was a pleasure to be there on your campus. We were impressed to meet some good talent in your college."

PHILIPS
"Just amazing. This is by far the best campus interview experience I had.", "It was very difficult to reject as everybody is good. We had a tough time."

Capital IQ A Standard & Poor's Business
"The communication of the students is very good. Very clear in explaining the things."

COSMIC circuits
"Students are open and inquisitive which shows that the institution has done a good job on this front."

CONTACT US

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Principal
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COURSE PEDAGOGY

B.Tech Programme

- The well designed and regularly revised syllabus to suit upcoming developments in technology builds a base for the life long process of learning and exploring. The **Main project** done in the final year and the **Mini project** in the pre final year, give the students a chance to utilise the knowledge gathered in their respective fields for cutting edge research.
- In addition to these, students also get to do **Seminars** and to choose from a set of **Electives**, which helps them to specialize in an area outside their parent discipline.
- Beyond the confines of the academic calender, students take up a 2 month long **Summer Internship** in addition to frequent industrial visits that give the budding engineers an insight into the industrial practices.

M.Tech Programme

- Four M.Tech programmes affiliated to CUSAT are offered by the college. Frequent lectures by industrial experts and **Internship** during the final year keep the students updated about the latest developments in the industry.

Research Programme

- MEC is the first institution under CUSAT to be recognised as a Research Centre.
- The major research areas include Signal and Image Processing, Opto Electronics, VLSI, Communication Systems and Bio Medical Engineering.
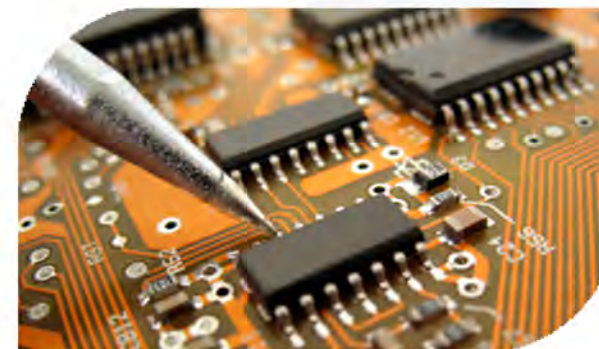
B.TECH PROGRAMMES

Electronics and Biomedical Engineering

- The course deals with the detailed study of Electronics for application in the field of Biomedical Instrumentation.
- Labs are equipped with the prominent diagnostic and therapeutic equipments.
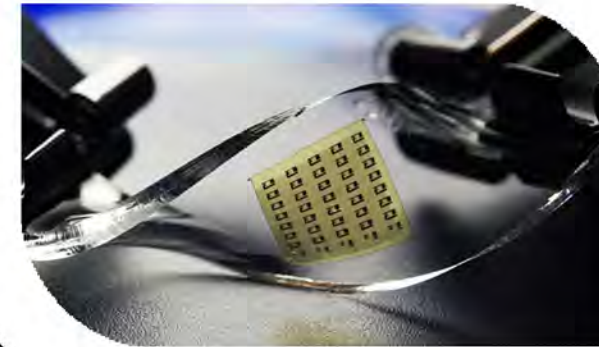
- First in Kerala to start an engineering course in Electronics and Biomedical Engineering.
- Prides itself as being first in India to receive an accreditation for this B.Tech course.

Electrical and Electronics Engineering

- Subjects on Network Theory, Control Systems and Power Systems along with Analog and Digital Circuits, makes an attractive blend of Electrical and Electronics.

- Labs are equipped with the most modern machinery and state of the art equipments, that gives exposure to the real industry standards.

ACADEMICS

B.TECH PROGRAMMES

Electronics and Communication Engineering

- The curriculum is designed to give adequate emphasis on application of Electronics in Communication Systems and Signal Processing.
- Microchip Consultant Program member since June 2005.
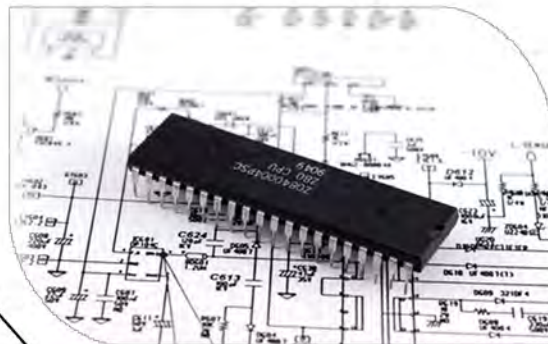
- Well equipped labs facilitated with the EDWIN Software and Virtual Modelling Software to carry out research projects.
- Mixed Signals is the joint endeavour of the staff and students of Electronics Department.

Computer Science and Engineering

- Ranked among the best technical programs in the country .
- Labs with dual processor industry standard blade server and CUDA assistance.

- The electives on Mobile Computing, Digital Image Processing, Artificial Neural Networks and Web Commerce, provide an insight into the modern technologies.

M.TECH PROGRAMMES

VLSI Design and Embedded Systems

- To expertise in FPGA based designs, we have got well equipped Advanced Reconfigurable Computing Laboratory.
- The Embedded and Real Time Systems lab syllabus is framed with equal emphasis on hardware and software.

Image Processing

- Endows knowledge in Digital Image Processing, Advanced Data Structures and Algorithms, Pattern Recognition, Natural Language Processing and Medical Image Techniques.

Signal Processing

- Gives the students an exposure to subjects like Adaptive Signal Processing, Digital Control System, Digital Image Processing, Spectral Estimation and Advanced Digital System Design.

Opto Electronics and Communication

- Focusses on giving a clear cut knowledge in subjects like Modern Optics, Optical Signal Processing, Laser Technology, Biophotonics and Optical Communication.

ACADEMICS

FACILITIES

Library

- The fully computerized college library has a repository of 21641 titles.
- Enlisted in the DELNET networks, a Govt. of India initiative, which enables sharing of information with other libraries in the list.

HAM

- Only college in Kerala to have a repeater station for HAM radio. The Model Amateur Radio Club(MARC) takes care of the license required to operate the equipment.

CUDA

- The only college in Kerala to have labs with CUDA facilities
- Two Graphics processing units(GPUs) are being used- Tesla C2070 and GeForce GTX480.

TEQIP

- Identified by the World Bank as a beneficiary under its scheme TEQIP (Technical Education Quality Improvement Program) which provides financial assistance for modernization and development.

Video Conferencing

- World class video conferencing facilities which allows sharing of documents, white boards and computer displayed information apart from conferences and discussions.

ACADEMIC CLUBS

Mixed Signals

- Mixed Signals is the joint endeavour of the staff and students of the Electronics Department.
- Aims at promoting interest in Electronics and Circuit designing.
- Organises circuit designing competitions and mock tests.

BMA

- Bio Medical Association is the club of the Electronics and Biomedical Engineering students.
- Lectures by stalwarts in the industry on various fields in biomedical engineering.
- Organises exhibitions and industrial visits for strengthening industrial interaction.

MACS

- MACS - MEC Association of Computer Students is the club of Computer Science and Engineering students.
- Maintains web, mail and FTP servers of the college.
- Conducts Linux Week every year.
- A FLOSS i.e, (Free/Libre Open Source Software) Cell has been started under it.

EMF

- Electrical Minds Forum is the club of the Electrical and Electronics Engineering students that aims at developing technical and academic skills.
- Conducts seminars and workshops by eminent people from the industry.

VESE
AVANTE GARDE

- It is the association of M.Tech VLSI and Embedded Systems students.
- Aims at bridging the gap between the technological advancements in the industry and the academics.

www.mec.ac.in

CLUBS

Illuminati
Illuminati is the official quiz club of MEC that has conducted more than 120 intra and inter collegiate quizzes and has won several prizes all over Kerala.

E Cell
Entrepreneur Cell of MEC has hosted several lectures of eminent personalities like Hari Kumar (Principal in Deloitte U.S. LLP), Tej Arora (Senior Entrepreneur), to nurture entrepreneurial spirit among the students.

Young Indians
Yi MEC Net, one of the best in the country is an active voluntary body of the students of the college which allows them to actualize their potential, connecting them to the community.

IETE
It is a national level professional society that brings out professionals in fields like Electronics & Telecommunication along with Computer & IT.

IEEE
MEC Student Branch of IEEE, is one of the largest student chapters in Kerala and it keeps the students in pace with the fast growing technical scenario.

CYBORG
CYBORG, is the robotics club of MEC which trains and develop the technical skills of students and encourages them to take part in various technical fests and workshops.

TREE
The Road to Environmental Excellence (TREE), which helps to promote the 'Go Green' concept, is the nature club of the college that is registered to W.W.F. and Greenpeace.

EVENTS AT MEC

EXCEL 2011
- National-Level Technical Symposium hosted in association with IEEE.
- Events include hardware & software design, exhibitions and quizzes.
- FOSS Meet lectures by Richard Stallman, Atul Chitnis and workshops by industry experts.

SOCIOPRENEUR 2011
- Sociopreneur is the annual business plan competition of the E Cell of MEC, in association with Yi Net MEC, aimed at promoting ideas for sustainable social ventures.

Workshops at MEC

Microsoft   BOSCH Invented for life
TEXAS INSTRUMENTS   YAHOO!
McAfee
DELPHI   Adobe
CYPRESS PERFORM   Rōbhatah Robotic Solutions

TECHNOPRENEUR
- It is the annual national conference conducted by the Yi Net of MEC which saw eminent personalities like Sam Pitroda, Kris Gopalakrishnan, Dr K Radhakrishnan, N S Parthasarathy etc.
- Adjudged the Yi Net best event at CII members' summit at Mumbai in 2006.

The Illuminati Quiz
in memory of Sandeep Menon
- Illuminati quiz was incepted in the year 2008, in memory of the founder of Illuminati Sandeep Menon.
- It has prizes worth ₹ 50,000, the highest offered by any quizzing society in India.

technical workshop marathon
- The IEEE branch of the college and Mixed Signals conducts a series of workshops.
- Workshops included:
  GNU Octave & TMS320C6713 DSP and RTOS & ARM Kit.
  VHDL, FPGA Prototyping and ASIC Design using Alliance VLSI CAD Tools.

ACTIVITIES

MEC AT THE PINNACLE

MEC was ranked 47th among the top 75 government and private engineering colleges in India by Outlook magazine in association with MDRA in 2011.

MINT, the business daily of Hindustan Times in collaboration with The Wall Street Journal, featured MEC as the 28th best among the top 50 Govt. engineering colleges in the country.

All the courses offered by the college have been accredited by the National Board of Accreditation.

MEC was ranked 4th best in terms of industrial interaction in the country by MINT.

MEC is the first college in Kerala to have Microsoft Student Partners.

MEC has been able to secure funding from TEQIP, a World Bank initiative, for an amount of ₹10 crores.

MEC has been host to a lecture by Richard Stallman, a pioneer in open source software, in 2001.

MEC is the first engineering college in India to have hosted TEDx, an independently organized TED event.

MEC chapter of Young Indians was recognized as the 2nd best Yi NET in India at the Yi summit held at Hyderabad in February 2009.

MEC is the first college to be recognized as a research centre under CUSAT.

STUDENT ACCOMPLISHMENTS

Mr. Shan Kadavil of the 1999 batch heads the India operations for the Zynga game networks, world's largest social network gaming company.

Mr. Krishnaswamy from Electronics and Biomedical branch of 1999 batch was the second highest payee in India among the fresh recruits in Intel Technologies.

Messrs. Balasubrahmanyan S, Aravind Krishnan and Sreekanth S of 2006 batch were part of the NVIDIA team that launched the NVIDIA GeForce 9400 graphics proccessing unit.

Mr. Sreeraj S of the 1993 batch is the founder of Ordyn Technologies and is currently the CTO of the company.

Mr. Sarath Lakshman of the 2011 batch is the author of 'Shell Scripting Cookbook' and holds credit as the developer of SLYNUX, a user friendly GNU/Linux distribution.

Mr. Murali Krishna P of 1996 batch is the co-author of 'Multifractal Based Network Traffic Modelling'.

Mr. Jacob Cherian of 1994 batch has 9 authorised patents to his credit on RAID technology.

Alphus Pathrose of 1997 batch reached the final round of BBC Mastermind India Quiz.

John Paul Xavier of 2008 batch won the first place in the 'Design the Next Chevrolet Contest' held by General Motors India in 2011.

Cherian Thomas of 2006 batch was the Yahoo! HackDay (2007) awardee for 'Social Routing', a Yahoo! Maps web application.

Bibin Mathew, Binu Mathew, Hareesh R, Rajesh R and Sujay S of 1999 batch won the 'National award for the best B.Tech Project-'98 from ISTE.

AWARDS AND ACCOLADES

MECians have been a part of GSoC for the past four years and this time Anurup Raveendran (2011 batch) and Arun Scaria (2012 batch) got selected for this prestigious event.

Jacob Cherian of 2005 batch was selected as the 'Dell Inventor of the year' in 2005.

Roshan Roy and Sachin Tarakan of 2008 batch bagged the second prize in IEEE National Level Project Demonstration competition for their voice controlled car, held at Hyderabad.

Thomas J Victor of 2004 batch won the Individual Excellence award in IBM.

Joseph Alphonse Mathew of 2006 batch was part of the team that came first in Maverick, an All India Deloitte event, in October 2010.

Sandeep P Nair of 2000 batch is the co-inventor of provisional US Patent on Seizure Control 2007.

Deepak Dutt of 1998 Batch, has won the 'Quality Award of Excellence' from Nortel Networks.

Niyaz K Zubair of 2005 batch is a recipient of the special KVPY Award from IISC Bangalore.

Premy Varghese of 1999 batch won the Maestro award for the best project management in Wipro.

AWARDS AND ACCOLADES

Roshan James and Pooja Malpani, of 2002 batch were the recipients of 'Microsoft Most Valuable Professional' award in 2003 and 2004.

Vinitha Suresh of 1993 batch received the 'Innovator Asia Award' from EDN Asia Magazine.

MEC students Harisankar A, Jaison Varghese and Raveendra Pai G of 2009 batch came first in the i-Talent All India level project presentation contest conducted by CII (Confederation of Indian Industries).

Livin D'cruz and Vineesh P of the 2013 batch bagged the state level first position at the Infosys aspirations 2020, a programming contest conducted as a part of their Campus Connect Program in 2011.

Sony Jose of 2007 batch won the first prize in the National Level Wipro CodeZap Guru Contest in 2007.

Bibin George of 1995 batch is the co-inventor of the US patent 7,177,349 for high impedence state for digital subscriber line transceivers on twisted copper pairs.

Muhammed Shahul of 2012 batch won the second prize in Cordys MashApps 2k10 conducted for students in South India.
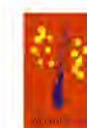
Robi Thomas of 1999 batch received the Chairman's award for Outstanding Excellence in Mindtree Consulting.

Rupesh Kumar R of 1997 batch won the Individual Excellence award in Infosys.

WHERE WE ARE

Kalkitech intelligent energy systems · dextra · CSC · NOKIA Connecting People · MICROCHIP · inDSP Audio Technologies · बी एच ई एल BHEL · HUAWEI · ARTIN DYNAMICS · Ittiam · ELSEVIER · flipkart.com · DELL · NeST · BOSCH Invented for life · KPMG · HCL · AMD · ARM · FLEXTRONICS · McAfee · PHILIPS · JUNIPER NETWORKS · ERNST & YOUNG Quality In Everything We Do · SYNOPSYS · LSI · Catapult Systems · BAIN & COMPANY · YAHOO! · J.P.Morgan · NVIDIA · Google · DISNEY INTERACTIVE MEDIA GROUP · Birlasoft · Manhattan Associates The Supply Chain People · CYPRESS PERFORM · Capital IQ A Standard & Poor's Business · Roche · D E Shaw & Co · QUALCOMM · Open·Silicon · Novell · Reliance Industries Limited Growth is Life · SAMSUNG · subex powering the ROC · freescale semiconductor · CISCO · REX MEDICAL · ATMEL · iGATE patni iTOPS for Business Outcomes · intel · amdocs · LexisNexis · BLACKROCK · CALPINE SOLUTIONS · CALLIDUS SOFTWARE · Sonus NETWORKS · Morgan Stanley · NetApp · Ordyn · accelops · INFOR · Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING · MindTree · MPHASIS an HP company · TAVANT TECHNOLOGIES · P&G · PayPal · vmware · visualIQ · Cognizant · accenture · ARICENT Communications Software · SYNTEL Consider IT Done

Epic · MetLife · EXOR India Pvt.Ltd. · AIRCEL · VeriFone · ADP · verizon · BSNL Connecting India · ibs Inventing future · AREVA · Athersys inc. · ARBITRON · ANSYS · AMERICORPS · CHA YO WO Games · UBS · TATA CONSULTANCY SERVICES · ADITYA BIRLA GROUP · legrand · इसरो isro · ERICSSON · Johnson & Johnson · ORION India Systems Pvt Ltd · TELUS · Extrel Core Mass Spectrometers · Nokia Siemens Networks · ORACLE · SIEMENS · CACTUS SEMICONDUCTOR · cadence · ANALOG DEVICES · amazon.com · vox spectrum · DELPHI · EMC² · COSMIC circuits · Microsoft · IBM · Fidelity INVESTMENTS · BROADCOM · NATIONAL INSTRUMENTS · zynga · SAP · hp · CATERPILLAR · Deloitte. · TEXAS INSTRUMENTS · Mu Sigma · HAL · Adobe · एनटीपीसी NTPC · Gulfsat · GE · Bloomberg · FACTSET · SONY · GE Healthcare · ARROW ELECTRONICS, INC. · citi · CORDYS · WIPRO Applying Thought · FUJITSU · Honeywell · sasken · MONSANTO · Infosys · slideshare Present Yourself · Broadridge · Standard Chartered · QBurst · MAGMA · ionidea · JAGUAR · Akamai · infinera · AON Hewitt · MOTOROLA · NDS

Technical festival in full swing

College annual festival

Students of MEC beat recession blues

B.Tech. students get job offers

Special Correspondent

KOCHI: The three-day technical festival 'X' organised by the Model College

Minister to open MEC research centre

Special Correspondent

KOCHI: Education Minister M.A. Baby

MASTER OF CODES

Excel fete begins at MEC

computer science and engineering branch, said that of the inaugural events debate, best management Adobe and a known

problems will be related to web, password recovery, cryptography and still Kryptos students solve puzzles conceive

Tree planting drive by MEC students

Staff Reporter

KOCHI: Buddi camp is

Staff Reporter

KOCHI: Model Engineering College (MEC) at Thrikkakara is on an ambitious project

MEC students get good placement offers

Budding engineers to test their skills at 'Excel' festival

Staff Reporter

KOCHI: The prestigious Model Engineering College at Thrikkakara is inviting budding engineers to test their skills at Excel X, its annual technical festival to be held on the campus from December 11 to 13, organised by the IEEE student branch of the college. It is rated high

the technical competitions that serve as a testing ground for youngsters.

From the exciting areas of air show and robotics to social themes like the Right to Information Act, the 10th edition of Excel is set

tions, talks and the seminars of Excel X are worth taking a look at, says Amal Thomas Roy, coordinator of the event.

The highlight of the Excel is th

from different walks of life. They will talk on subjects ranging from

He said that the events section will feature technical series, both computer and electronics, organised by the best in the industry, as the students of who have topped at several technical across the country.

competition, 'De-Fuse' and 'Signal Maestro' are some of the other highlights. Excel computer science events will feature online competitions including 'Hackmaster' and 'Slash Bin Slash Bar'

IEEE to offer e-membership

Staff Reporter

KOCHI: The Institute of Electrical and Electronics Engineers (IEEE) will introduce e-membership in 2011, Mini Thomas, Vice-Chairperson, Member and

Technopreneur on February 20

Technopreneur, a yearly event organised by the students of Model

venture by the Yi net of MEC. Project Corpuscles and the associated database would enable people and hospitals to find donors without

sessions and a concert by the band Sound Awake is also of the programme.

More details can be had the official http://www.technopreneur

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