Model Engineering College

Placement Brochure 2012

contents

INTRODUCTION

Govt. Model Engineering College (MEC), Thrikkakara, established in 1989 by the Government of Kerala under the management of the Institute of Human Resources Development, is the first college to have procured affiliation from the reputed Cochin University of Science and Technology (CUSAT). Within two decades of its establishment, the college has entrenched itself in the league of the most respected institutions in South India. The institution has remained committed to producing the engineers of tomorrow, imbued with an uncommon mix of theoretical knowledge and application skill. Admission to the institute is done through the All Kerala Engineering Entrance Examination conducted by the Govt. of Kerala.

Ideally situated at Thrikkakara, in close proximity to the Infopark – the IT hub of Kochi and the Cochin Special Economic Zone, the campus provides a plethora of infrastructural and logistical advantages for maintaining strong corporate contacts as well as the ideal ambience for diligent academic pursuit.

WHY MEC ?

- MEC has been ranked **28th** among the top 50 Government Engineering Colleges in India in the year 2009 compared to 37th during the previous year in a survey by MINT, the Business Daily of Hindustan Times in collaboration with The Wall Street Journal.

- MINT ranked MEC as the **4th** best in terms of industry interaction in the country.

- MEC is **5th** among the top 10 engineering colleges in India for 'Return On Investment' (Outlook).

- YAHOO!, Deloitte., Nokia Siemens Networks, Apache are a few among the reputed companies that have flocked to MEC year after year, impressed by the intellectual capital the college always has to offer.

- MEC is the only campus to be visited by nVIDIA in Kerala consistently since **2006**. NVIDIA

- Capital IQ A Standard & Poor's Business Capital IQ and Cosmic Circuits have recruited exclusively from MEC in Kerala. COSMIC circuits

- Of over 1,00,000 aspirants taking the All Kerala Engineering Entrance Examination, only the elite succeed in making it to MEC.

- MEC is the first institution under CUSAT to be recognised as a Research Centre.

PLACEMENT & TRAINING

The Placement & Training Office, Model Engineering College, facilitates the process of placement of students passing out from the institute besides collaborating with leading organizations and institutes in setting up of internship and training program for students.

INTERNSHIP

Pre-final year students undergo a two month summer internship in various leading organisations from the first week of May. Companies unable to visit the campus select the students on the basis of student resumes, telephonic interviews and/or on site interviews.

COMPANIES THAT HAVE OFFERED INTERNSHIPS
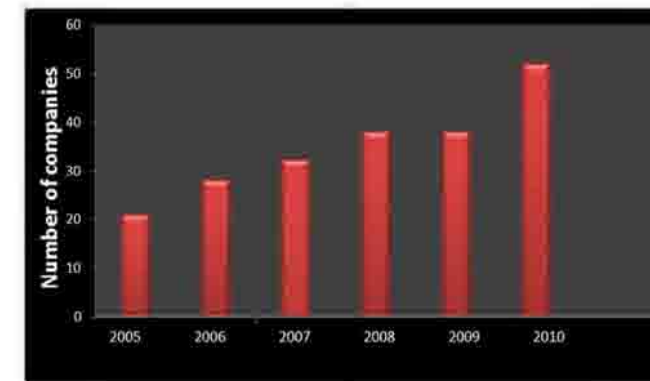
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OUR RECRUITERS

- Electronics Core 33%
- Computer Core 23%
- Finance & Banking 11%
- IT Service 33%

Number of companies — 2005, 2006, 2007, 2008, 2009, 2010
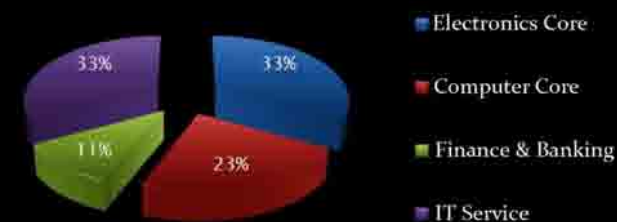
WHAT THEY SAY!

"Just amazing. This is by far the best campus interview experience we had."

PHILIPS sense and simplicity

"Thank you to the team at MEC for making this placement season a memorable one. The placement cell was one of the most hospitable teams that we came across. The quality of the candidates in terms of technical know-how and general expertise were very high. KEEP UP THE GOOD WORK!!!"

NVIDIA

"AWESOME!!"

YAHOO!

"It was a pleasure to be there in your campus. We were impressed to meet some good talent in your college. The experience of recruitment from your college is still fresh in my mind. We are looking at building a long term relationship with your institution."

Deloitte.

"Students are open and inquisitive which shows that the institution has done a good job on this front. Very hospitable. Honestly I have not seen this type of hospitality anywhere so far in 14 years of visiting campuses."

COSMIC circuits | Analog with Certainty

COURSE HIGHLIGHTS

B.TECH PROGRAMMES

- The courses are accredited by the National Board of Accreditation (NBA).
- Syllabus is updated every four years encompassing the latest technologies.
- Mini Project in the 6th Semester aims at providing experience in project designing and maintenance.
- Main Project done in the 8th Semester gives students a chance to create real life systems based on the current industrial trends.

ELECTRONICS AND BIOMEDICAL ENGINEERING

- First institute in Kerala to have a B.Tech programme in Electronics and Biomedical.
- Provides emphasis on Electronics and Instrumentation with an expertise in the Biomedical Engineering field.
- Subjects like Medical Instrumentation, Signal Processing, Embedded Systems and Applications, VLSI Design and Medical Imaging Techniques.
- Bipolar Catheterization Lab for demonstration.

ELECTRONICS AND COMMUNICATION ENGINEERING

- Application based subjects like ASIC Design and VLSI Design.
- Communication subjects like Analog and Digital Communication, Networking and Digital Signal Processing.
- Modern and sophisticated equipments like LPKF PCB Prototyping Machine and EDWIN Software.
- Research oriented project facilities.

COMPUTER SCIENCE AND ENGINEERING

- Ranked among the best technical programmes in the country.
- Labs function completely on open source softwares.
- Electives in Embedded Systems, Digital Image Processing, Artificial Neural Networks and Web Commerce.
- Labs with dual processor industry standard blade servers.

ELECTRICAL AND ELECTRONICS ENGINEERING

- Full fledged machines in the laboratory.
- Application of MATLAB.
- Strong industry interaction.

MIXED SIGNALS

- The club for the Electronics and Communication Engineering students.
- Arranges exhibitions, lectures, seminars, workshops, discussions and industrial visits.

MACS

- MEC Association Of Computer Students or 'MACS' is the club for the Computer Science and Engineering students.
- Maintains web, mail and DNS server of the college.

BMA

- Association of the Electronics and Biomedical Engineering students.
- Organizes talks, seminars, conferences and events on different fields in Biomedical Engineering.

M.TECH PROGRAMMES

OPTO ELECTRONICS AND COMMUNICATION

The course equips its graduates with an excellent knowledge of Modern Optics, Laser Technology, Optical Signal Processing, Biophotonics and Optical Communication and provides a range of experiences in research methods and data analysis.

VLSI DESIGN AND EMBEDDED SYSTEMS

The course offers a host of subjects like Advanced Digital System Design, VLSI-DSP Architecture, Embedded System Design and EDA tools.

SIGNAL PROCESSING

The course introduces the students to Advanced Spectral Estimation, Adaptive Signal Processing, Digital Image Processing, Digital Control Systems and Advanced Digital System Design.

BEYOND THE CLASSROOMS

EXCEL

EXCEL Inspire | Innovate | Engineer

- National-Level Technical symposium hosted by Model Engineering College.
- TEDxMEC- First to be hosted by an Engineering College in India.
- FOSS Meet lectures by Richard Stallman, Atul Chitnis.

TECHNICAL WORKSHOP MARATHON

Technical Workshop Marathon

One month programme conducted by IEEE. It constituted of the following:

- GNU Octave & TMS320C6713 DSK.
- PCB design using Orcad & circuit simulation using Ngspice.
- Embedded Linux, RTOS & ARM processors.
- VHDL, FPGA Prototyping & ASIC Design using Alliance VLSI CAD Tools.
- Programmable System on Chip (PSoC).
- Embedded Controllers.

YOUNG INDIANS

Yi Young Indians

- 2nd best Yi-Net in India.
- Independent voluntary body of dedicated students which connects them to the community, the country and the awaiting bright future.

TECHNOPRENEUR

TECHNOPRENEUR

- Biggest socio-economic conference involving eminent entrepreneurs from all walks of life.
- Adjudged the Yi-Net best event at CII members' summit at Mumbai in 2006.
- The event has witnessed conspicuous dignitaries such as Sam Pitroda, Kris Gopalakrishnan, Dr. K Radhakrishnan, N S Parthasarathy, Sarath Babu, Suhas Gopinath etc.

ILLUMINATI

Illuminati is the elite quizzing society of MEC which has conducted over 120 intra and inter collegiate quizzes and has won numerous prizes all over Kerala.

ILLUMINATI QUIZ

The Illuminati Quiz

- The Illuminati Quiz, started in 2008 is one of South India's biggest quizzing events.
- Prizes worth ₹ 50000, the highest offered by any Quizzing Society in India.

E CELL

E Cell nurtures the spirit of entrepreneurship among students. Dignitaries like Hari Kumar (Deloitte US India MD), Tej Arora (Co-Founder of Taggle), have delivered lectures at MEC.

CYBORG

The robotics club of MEC CYBORG encourages the students in participating in technical fests and workshops.

WORKSHOPS AT MEC

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

IEEE

IEEE couples its technical expertise with excellence to explore the myriad dimensions of technology and offers industrial interactions through technical visits and seminars.

IETE

IETE is the National Apex Professional body of Electronics and Telecommunication coupled with Computer and IT professionals on advancing electro-technology.

MARC

Model Amateur Radio Club (MARC) organises technical programmes for developing the communication engineering skills of students. The college has a high power transmitter that acts as a Repeater Station.

COLLEGE ACHIEVEMENTS

STUDENT ACHIEVEMENTS

MINT, the business daily of Hindustan Times, in collaboration with the Wall Street Journal, featured MEC as the **28th best** among the top 50 government engineering colleges of India. MEC has been ranked **5th** among the top engineering colleges in India for **Return On Investment (ROI)** by **Outlook Magazine**.

MEC Chapter of Young Indians was adjudged the **2nd best Yi Net in India** at the Yi summit held at Hyderabad in February 2009.

All the courses offered by the college have been accredited by the **National Board of Accreditation** (NBA).

MEC is the first engineering college in India to host **TEDx**, an independently organised TED event.

MEC was host to a lecture by **Richard Stallman**, pioneer in Free Software, in 2001.

MEC has the **highest pass percentage** among all the colleges affiliated to CUSAT. Since 1993, MEC students have retained all the top ranks.

The college organised a robotics exhibition- **ROBOSHOW**. Dr. Prahlad Vadakkepat of National University of Singapore was the main speaker at the event.

The college was selected by the Government of Kerala to conduct **IT@School programme**, for providing training to school teachers on various aspects of Linux.

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

MEC is affiliated to CUSAT, which is ranked **10th among the 67 top institutes** of technical higher education in the total number of scientific research papers published during the period 1998-2008. CUSAT has also bagged the 11th slot in the quality of the research papers and the 3rd slot in the list of best performances.

Messrs. S Balasubrahmanyam, S Sreekanth and Arvind Krishnan of 2006 batch were part of the nVIDIA team that launched **nVIDIA GeForce** 9400 graphics card in 2008.

Mr. Krishnaswamy from Electronics and Biomedical batch of 1999 received an offer from **Intel Technologies** as the **second highest payee in India**.

Mr. Shahnawaz Kadavil of 1999 batch **heads Indian operation** for **Zynga Game Networks**, world's largest social gaming company.

Mr. Mithun Koshy Alexander of 1999 batch was selected as the **International Student Ambassador** of the Australian National University in the year 2003. He has been part of the **Ministerial Advisory Council** for Multicultural Affairs and reported directly to the **Chief Minister** of Australian Central Territory.

Mr. Jacob Cheriyan of 1994 Batch has **9 authorised patents** to his credit on **RAID technology**.

Mr. Preetish M Kumar of 1997 batch reached the final round of **BBC Master Mind, India** Quiz.

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

Mr. Shanavas M S of 1997 batch was placed 12 in the 9th **International Design** Competition, Osaka conducted by the Japanese Design Foundation among 1069 contestants from all over the world.

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

AWARDS AND ACCOLADES

Sarath Lakshman of 2011 batch has been selected for the **Google Summer of Code** for **three consecutive years** (GSoC 2008, 2009 and 2010). Narayanan K of 2010 batch was also selected for GSoC 2010.

Jacob Cherian of 2005 batch won the **Dell Inventor of the Year** award in 2005.

Roshan James and Pooja Malpani of 2002 batch bagged **Microsoft's** prestigious **Most Valuable Professional** award in 2003.

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

Vishnu Vijay of 2001 batch got the first place in a **National level Technical Symposium** held at Velliyammal College of Engineering for his paper on **Nanomedicine**, in which chips designed using nanotechnology are used for prevention and cure of human diseases.

Robi Thomas of 1999 batch received the Chairman's award for **Outstanding Excellence** in **Mindtree Consulting**.

Sandeep Parameswaran Nair of 2000 batch is the co-inventor of provisional **US Patent on Seizure control**, 2007.

Niyas K Zubair of 2005 batch was a recipient of the prestigious **KVPY** award from IISc Bangalore.

Premy Varghese of 1999 batch won the **MAESTRO** award for excellence in project management in **Wipro.**

Harisankar Aravindakshan, Jaison Varghese, Raveendra Pai G of 2009 batch won the first place in the **iTalent**, an All India level project presentation contest conducted by the **Confederation of Indian Industries** (CII) in 2009.

Deepak Dutt of 1998 batch won the **Quality of Excellence** award from **Nortel Networks.** The award recognizes employees who demonstrate behavior that drives the core value - "Quality is in every aspect" and whose innovations deliver clear customer value.

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

Vinitha Suresh of 1993 batch won the **Innovator Asia** award from EDN Asia Magazine.

Shyamlal S of 2010 batch and Sarath Lakshman of 2011 batch secured the second place in India's first **National Level CTF Style Ethical Hacking Contest** (InCTF). They were also awarded with an internship offer by Verisign.

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

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

Bibin George of 1995 batch is the co-inventor of **US Patent 7,177,349** (High impedance state for digital subscriber line transceivers on copper twisted pairs).

Narayanan K and Suraj Shenoy K S of 2010 batch and Manu Thomas Mathew of 2009 batch won the All Kerala computer-programming contest in **Aspirations 2020** conducted by **Infosys** in 2008.

WHERE OUR ALUMNI ARE...

...YES, WE ARE THERE TOO...

ALUMNI

ALUMNI

IN THE LIMELIGHT

MASTER OF CODES

Robots to share and care

ADVANCED TECHNOLOGY: *Robots playing football at the robotics show organised by the National University of Singapore at Model Engineering College, Trikkakara, on Friday*

College camp promotes green message

Special Correspondent

KOCHI: The Brail e Environ-
meeting, Excellence (TREE), the nature club of the Model Engineering College, Thrik-
kakara, in association with the National ...

Campus recruitment gaining momentum in the city

Top-notch IT companies to come scouting for talents

Staff Reporter

KOCHI: The slow revival in campus recruitment has brought cheers to engineer-
ing students and placement officers in Ernakulam.
Companies have informed institutions like the Model Engineering College at Thrik-

- Companies to select only final year students
- Recruitment mainly for core engineering areas

started visiting the campus. Some of the companies, which visited the college re-
cently, have also issued offer letters to a few students ...

ty of Science and Technology, said that the placement cell has initiated steps to invite companies to the campus for recruitment. He said that recruitment was on for open-
ings in the core engineering areas. We hope that the recruitment process will pick up by December, he said.
Describing that companies have been recruiting students in the technical support and BPO ...

ciation of Software and Ser-
vices Companies (NASSCOM) that companies will recruit only final-year students. During the boom period, companies used to ...

Student's zeal takes him places

Staff Reporter

KOCHI: Sarath Lakshman's passion for Open Source pro-
grammes seems to be taking him beyond the borders ...
days.
A student of computer ... at the Model Engine ... llege at Thrik... ster ...

CUSAT APPROVES MODEL ENGINEERING COLLEGE AS RESEARCH CENTRE

ochin University of Science and gy (CUSAT) has approved Mod... ing College, Trikkakara, as a r... ntre in Electronics and Commu... nder the faculty of Engineering ... ge is the first educational institut... SAT to be honoured. The colleg... lished in 1989 and over the years ... wn to be the top ranked engineer... e in the state, a press re... rtment of ...

Students of MEC beat recession blues

90 % of the B.Tech. students get job offers

Staff Reporter

KOCHI: The Model Engineer-
ing College (MEC) at Thrik-
kakara beat recession blues when 90 per cent of the B.Tech. students (May 2010 pass-out) on the campus were extended around 201 offers by the who-is-who of the In-
dian industry.
The young techies posted an impressive placement re-
cord this year, signalling the revival of campus recruit-
ment after a bad patch trig-
gered by global ...

IEEE to offer e-membership

Staff Reporter

KOCHI: The Institute of Elec-
trical and Electronics Engi-
neers (IEEE) will introduce e-membership in 2011, Mini Shaji Thomas, Vice-Chair-
person of the Member and Geographic Activities Board (MGAB) of the organisation, has said.
In her inaugural address at the IEEE Link 5 celebrations

Benny, a freelance web dev-
oper; and M.V. Rajesh , ass-
tant professor of MEC.
The programmes were in-
augurated by Ajith Patil, Sub-
Collector of Ernakulam ...

hilips Komattu, IEEE Member and lic Activities Industrial Representative at the IEEE LINK 5 celebrations at the ineering College, Thrikkakara on
PHOTO: THULASI KA...

Technical festival in full swing

Special Correspondent

KOCHI: The three-day techni-
cal fest, Excel X, organised by the Model Engineering Col-
lege, Thrikkakkara, is in full swing with the active partici-
pation of engineering college students and technocrats.
One of the interesting programmes was ...

gramme discussed the nega-
tive and positive aspects of the current education system and possible improvements in the system.
These were evaluated and debated by a panel consisting of T.K. Mani, prin... "S"... IHRD...

Budding engineers to test their skills at 'Excel' festival

Staff Reporter

KOCHI: The prestigious Model Engineering Co... at Thrik-
... neers to invi... Excel X', its a... festival to be ... pits from Dec... Organised ... dent branch event is rate... leges thank...

the technical competitions that serve as a testing ground for youngsters.
From the exciting areas of air show and robotics to so-
... nomes like the Right to ... the 10th edi-
... nture

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 this year's Excel is the TED event.
As part of the programme, Model Engineering College will host 'TEDx' on December ... ...heme of 'TEDxMEC ... ... mec.ac.in).

from different walks of life. They will talk on subjects ranging from innovation in technology to social ac...ivism.

Global conference
Mr. Roy said 'TE... offers a great opport... the students in South ... be part of an inter... conference (regis... TEDxMEC ...

He said that the events sec-
tion will feature technical programmes, both computer science and electronics, orga-
nised by the best in the indus-
...

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

street smart to be part of the extravaganza with "Principia Mathematica", 'Dalal Bull' (online), 'Managerial Mettle', 'Excel X General Quiz', 'Wa... ter Rocket', 'Treasure Hun... and 'Computer Gaming'.
Lecture series on areas li... ... ket di... ... nationa... tworl... will a... n...

Technopreneur on February 20

Technopreneur, a yearly event organised by the stu-
dents of Yi-MEC Net, Model Engineering College, Thrikkak-
... uled to be held this ... House in Kochi on ...).
... edition will feature ... el events—Techno-
010, with the theme ... y for Social Pro-

venture by the Yi net of MEC.
Project Corpuscles and the associated database would en-
able people and hospitals to get willing blood donors without delay. The website of the project will formally be inaugurated on the day of the event.

Sessions
A video conference session

sessions and a concert by the band Sound Awake is also part of the programme.
More details can be had from the official website, http://www.technopreneur.in/

2009 edition
The 2009 edition of the event attracted students from Indore, Chennai, Bangalore, Hydera...

Tree planting drive by MEC students

Staff Reporter

KOCHI: Model Engineering College (MEC) at Thrikkak-
... ara is on an ambitious drive to protect the environment.
The green cadets on the campus began this ...