



In Altum...

The MBCET News Letter

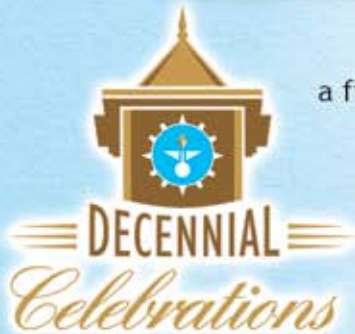
Mar Baselios College of Engineering and Technology
Mar Ivanios Vidyannagar, Nalanchira, Thiruvananthapuram – 695 015.



Home they brought many laurels



The MBCET team won the Runner's Up Trophy in the
Kerala University Youth Fest - 12 with 72 points :
a first time achievement in the history of the College



A generation with a different message
No to plastics! A plea to save life



As a propaganda against the use of plastics, the students of MBCET made 1102 paper bags in 2 minutes to find a place in the Limca Book of Records.

Message from the Bursar



Progress is the index of culture, of the onward march of humanity. But if it is mere material progress, devoid of human intellectual refinement, it remains imperfect. Our educational pursuits should lead to the building up of a culture. It should not demean itself to anarchy and chaos consequent to the blind technological advancement. Education and technology should contribute to the enhancement, sustenance and refinement of culture. To quote from Pope Benedict XVI's address dated 24 February 2012: "Even though today's culture seems to have lost its sense of good and evil, it must be forcefully reaffirmed that good exists and wins through". It is this hope that should motivate and sustain every MBCET'ian and every member of the society. In this Decennial year, let us pledge anew to be open to the logic of goodness. Let us educate ourselves to overcome the hardness of heart which blinds us to the suffering of others.

I congratulate all the students on their commendable performance in both the academic and co-curricular activities, especially in the various Sports Competitions at the Inter-Collegiate, University and State Levels and the University Youth Festival. And success evolves from inward discipline...

Fr. Wilson Thattaruthundil

Principal's Desk



To remain competitive, organizations need responsible employees who are knowledgeable, creative and capable of planning and executing ideas, work well with teams and are self motivated. Employers are generally looking for candidates who can think critically, make logical decisions and have the capability for lifelong learning.

Students have to take the initiative to develop and continue to enhance these skills along with the academic knowledge, while they study in the College. Involvement in co-curricular and extracurricular activities allows students to link academic knowledge with practical experience, thereby leading to a better understanding of their own abilities and talents. By working together with other individuals, students learn to negotiate, communicate, manage conflict and lead others. They understand the importance of Critical Thinking, Time Management, Academic and intellectual competence which help students to gain more self-confidence, and appreciation for others' differences and similarities.

It is my advice to each MBT'ian to make use of every opportunity to hone the skills and attributes as the development of well-rounded individuals is our principal goal.

Dr. T. M. George

Editor's Note

Dr. George Zachariah

Na jayate mriyate va ... (He is never born, nor does he die at any time) says the Bhagavat Gita (ii/20). "Energy can neither be created nor destroyed", says Newtonian Precept. We are after various pursuits, though futile, quite often. May be that is the destiny of man, inevitability of evolution. Yet, there remains so many 'why's'. Why the pursuit after "god- particle", if energy is neither created nor destroyed? Is evolution then a mere saga of transformation? In the context of the explosive growth of technology, how are we going to address the problem of Electronic Waste, even when we fail miserably in the waste- management of our own households, not to speak of the city garbage or a Vilappilsala? About 10 million pieces of human made debris are estimated to be circulating in space at any one time. If the Space-Junk has become such a real threat to the global life, what about the amassing e-waste on earth? If serious research is not done with a futuristic mind, a third world war need not be fought at all, because, life at this pace will be imperiled to unimaginable levels by the mad, self-centered race. Instead of degrading our minds into litter-bins of negative, poisonous, egotistic thoughts, let science and technology enable us to transform ourselves as the beacons of hope for the posterity.

Dept. of Civil Engineering

Papers Published and Conferences Attended:

- 1 Ms. Sibi Joy, Assistant Professor, Dept. of Civil Engineering, secured first rank for M.Tech. Degree course in Geotechnical Engineering from University of Kerala in 2011. She presented a paper at the Seminar, Geosynthetics Indian'11 organized by Indian Chapter of International Geosynthetics Society held at IIT Chennai in September 2011.

She presented the following papers:

- a "Model study on coir reinforced retaining wall" at the 12 National Conference on Technological Trends held at College of Engineering, Trivandrum in August 2011.
- b "Biodegradation of coir geotextile in tropical climatic conditions" in the Indian Geotechnical Conference organized by the Indian Geotechnical Society, Kochi Chapter and the Cochin University of Science and Technology in December 2011.

She attended the Staff Development Programme on "Recent advances in the use of Geosynthetics

in Transportation and Geotechnical Engineering" at College of Engineering, Trivandrum from 30 November to 13 December 2011.

- 2 Ms. Lekshmi V., Asst. Prof. attended the annual conference of the Indian Geotechnical Society, IGC 2011 held in Kochi, Dec 15-17, 2011.
- 3 Ms. S. Jayasree, Asst Prof., published a paper "Study on Reinforced Corrosion and Related Properties of Plain and Blended Cement Concrete" at the International Seminar at TKM College of Engg., Kollam. She presented a project on 'Strength and Behaviour of Corrosion Damage of Beam Column Joints and Retrofitting' at U G C Delhi
- 4 Stephen P. Jacob, Lecturer, presented paper in 'Thermal Behaviour of Pavements and its Effect on the Environment' in the Kerala Science Congress 2012 held at the Rubber Board Institute, Kottayam on 30 Jan 2012.
- 5 Prof. P. N. Mohan inaugurated the activities of the Civil Engg Association at the Hindustan College Of Engg, Arippe, Kulathupuzha, Kollam and gave a talk on "Recent Trends in Civil Engg.
- 6 Mr. Ratheesh Kumar Assistant Professor attended the National Conference on Road Safety Programme conducted by NATPAC

NACE 2011

The National Conference on Advances in Civil Engg. was inaugurated by Hon'Speaker Shri. G.. Karthikeyan on 03.12.2011. Sri. Babu Jacob, IAS, Former Chief Secretary, delivered the key note Address. Around 100 participants from Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Maharastra representing IIT's, NIT's and other Engg Colleges and Govt. Departments attended the conference. The conference was conducted in three technical sessions chaired by Dr. Jayakumar, Director, CWRDM, Ms. Sreedevi, Director, NATPAC, Dr. Gopalakrishnan, Professor. The proceedings incorporating all the discussion papers were also released in the inaugural session.



UTBHAV 2011

Utbhav – The Technical Fest of the Department of Civil Engg. to heighten the technical gift of students was conducted on 16 December 2011. The fest was inaugurated by Dr. Elizabeth Steur, a Psychiatrist from Holland. The technical events conducted were Patrika Yaga, Prathiroop Nirman, Abastha Babastha, Nidhi de Piste and other events for entertainment. Around 200 students from different colleges attended the Fest. Cash Prizes were distributed to the winners.



CIVIL NYTE

Civil Nyte 2011"-a get together of the Alumni of the Civil Engineering Department of Mar Baselios College of Engineering and Technology was organized on the 23rd of December 2011 in the college campus. The gathering comprised of students of three former batches of the College. The alumni interacted with the present four batches of students and shared their experiences with them. Principal, Dr. T. M. George inaugurated the function.

Outreach Programmes

THANAL

The Societal bureau of Civil Engineering Department keeps on rendering yeoman services to the less fortunate and downtrodden in the society. The major programs of Thanal for last two months include:

1. With the alumini of Civil Engineering Department, Thanal members visited Balabhavan and Bhalikabhavan at Kattala and provided lunch to all the inmates.
2. Thanal joined Pallium India -which is a national registered charitable organization to Celebrate World Palliative Care day on 8th October 2011. Thanal members volunteered in bringing the physically challenged people for the Sneha Santhwana Sangamom and spent the whole day with them
3. Visited a palliative patient affected by polio at Nandiyode and financial assistance of Rs.5000/- was given to him for the marriage of his daughter.
4. As part of the fund raising for the activities of Thanal, a lucky draw was conducted during Utbhav 2011 and all the winners of the lucky draw were given attractive prizes like mobile phone, MP3 player etc.
5. A Donation of Rs.10,000/- was given to a cancer patient for his surgery.
6. Distributed Christmas kits with 5 kg rice and the required groceries costing Rs.500/- each to 10 families of palliative patients at Muzhukkumpuzha.
7. Constructed the second house at Kilimanoor costing Rs.1,00,000/- for a mentally challenged lady.

Thanal celebrated its anniversary on 13.01.2011. The celebration was inaugurated by **His Excellency Most Rev. Dr. Samuel Mar Irenios, the Auxiliary Bishop of Trivandrum**. This was a platform for the official launch of the theme song of Thanal. The release of Thanal newsletter, **handing over the key of the latest housing project**, address by Pallium India representative: Mr. Vijayakumar, the distribution of certificates to the volunteers of World Pallium Day and cultural events also took place on the occasion.



Horizon Expansion

The Faculty members visited the Railway Crossing Works by Trench less Method for JBIC assisted Kerala Water Supply Project in Trivandrum.

Dept. of Computer Science and Engineering

The Department conducted a one day workshop on "Advanced Algorithm Analysis" on 17 Dec. 2011. Prof. Giles M. P., Dept. of Computer Science & Engg., Govt. Engg. College, Wayanad, delivered a lecture on 'Amortized Analysis and String Matching Algorithms'. More than 40 participants, including M.Tech. students and faculty members from various Engg. Colleges participated in this workshop.



Mr. Shibu V. S. published and presented a paper at the 'International Conference on Advanced Computing' (ICOAC) held at MIT, Anna University Chennai in Dec. 2011. He attended a seminar lecture on "Robotics and Haptics" by Prof. Kenneth Salisbury of Stanford University at the Amrita Vishwavidhyapeetham, Amrithapuri. He attended another National Workshop on "Computational Intelligence" in Jan. 2012, organized by Jyothi Engg College, Cheruthuruthy.

Ms. Sunitha Krishnan K.S attended deep dive faculty workshop on 'Java EE frameworks conducted by Campus Connect, Infosys in Dec 2011 at SCMS College of Engineering and Technology, Ernakulam.

Ms. Snitha S Krishnan and Mr. Bharat Narayanan attended a two day workshop on "Interfacing with Personal Computers" organized by TKM College of Engineering, Kollam, in association with ISTE- TKM College Chapter and VI Microsystems Pvt. Ltd, Chennai in Nov 2011.

Ms. Sarada B. S. attended the Third National conference in Information Technology and Software Engineering organized by Aarupadai Veedu Institute of Technology in February 2011 at AVIT, Paingoor, Tamil Nadu. She presented a paper at the National Conference on Signals Systems and Technologies in Media organized by the department of EMT, Karunya University, Coimbatore. Presented another paper at the Second National Conference on Computational Science and Engineering, NCCSE-2011, in February 2011 organized by Department of Computer Science & CSI Student Branch, Rajagiri College of Social Sciences, Cochin.

Ms. Sarada published a paper "Improving p2p in Cloud Computing Based on Performance" in the International Journal for Computer Applications (IJCA), New York, indexed by DOAJ, Google Scholar, Informatics, ProQuest CSA Technology Research Database, NASA ADS (Harvard University), Scientific Commons (University of St.Gallens), University of Karlsruhe, Germany and Georgetown University, USA. She presented another paper titled "Introducing p2p in Cloud Computing" in International Journal of Scientific and Engineering (IJSER), France, indexed by Google Scholar, EBSCO, Scribd, Scirate, DOAJ (Directory of Open Access Journal), Scientific Commons, CiteSeer, Base, DBLP, QSensei and Docstoc.

Dept. of Electrical & Electronics Engineering

Training Programme on Emerging Trends in Power Systems and MiPower Application (ETPMA)

A 5-Day Short Term Training Program on 'Emerging Trends in Power Systems & MiPower Applications' was organized by the department of Electrical Engineering co-sponsored by the ISTE from 21 to 25 November 2011. The course focused on the latest trends in Power Systems and the applications of MiPower Software in Power System Engg. The Program was inaugurated by Sri. Muhammad Ali Rawther, Member, KSEB. Ms. Divya N. A. and Mr. R. S. Praveen Raj were the Coordinators of the program. Around 20 members of Electrical Engineering faculty from various colleges attended the course.

The Resource Persons were Er. Aby Joseph, Joint Director, CDAC-T, Dr. Ashok. S (Dept. of EE) from NIT, Calicut and Prof. M. K. Giridharan (Dean & HOD of EE Dept., MBCET). The hands on training on MiPower Software was handled by 3 experts from Power Research & Development Consultants Pvt. Ltd (PRDC), Bangalore.



Decennial Lecture Series

In connection with the Decennial Celebrations, the Dept. initiated the Decennial Lecture Series on 9th December 2011. The first session was on the topic "Renewable Energy Options- An Overview", by Dr. K. N. Ramachandran, Technology Advisor, FILTRAN Ltd., Ottawa, Canada. He was accompanied by Prof. P. Vijayachandran, FIE, Director, School of Management in Hospitality, Marian College, Kuttikanam and Former Managing Director, KTDC for the discussion with the audience.

The Lecture series was jointly organized by MBCET student chapter of IET-UK (Institution of Engineering and Technology) and the Association of Electrical Engineering Students, – ILLUMINA.

As part of visiting Faculty program of Govt. of Kerala, Prof. M. K. Giridharan, HOD (EE), delivered a series of lectures on "Electrical System Design for Practicing Engineers" at Government Engineering College, Barton Hill on 27/02/2012 and 29/02/2012.



New Faculty Members

- Praveen S. Babu (Teaching Faculty): He is an alumnus (2002-06 batch) of this college and did his M.Tech in Control Systems from College of Engineering, Trivandrum.
- Ms. Manju Sreekumar (Teaching Faculty), returned after completion of her higher studies – M.Tech in VLSI & Embedded Systems from Model Engineering College, Ernakulam

Faculty Development Programmes attended by faculty

- Jomole J. P., Sheenu P. – Paradigms, Perspectives – New Trends in Research during 31st Oct – 5th Nov 2011, organized by ISTE Chapter & Dept. of Physics in TKM College of Engineering, Kollam in association with ISTE Kerala Section.
- **Elizabeth Varghese**
Recent Advances in Microcontrollers and Applications during 23 to 29 Nov 2011, sponsored by the Directorate of Technical Education in association with Silicon labs, USA and IE and a Workshop on "Research Methodology" in January 2012, organized by Dept. of EEE, College of Engg., Trivandrum.
- Sandhya P., Soumya A. V. – Power quality issues at IT Parks- Active Filter Solution, in Nov. 2011 in CDAC-Trivandrum.
- Soumya A.V., Sandhya P., Shyju Susan Mathew – Workshop on Research Projects and Funding Agencies in February, 2012, organized by ISTE and sponsored by CERD, and conducted by Dept. of EE, College of Engineering, Thiruvananthapuram.

As part of upgradation of the Power Systems Laboratory, a 150kV, 225J Impulse Generator and a 210kV 3-stage Power Frequency Cascade transformer set comprising of 3 numbers 70 kV, 100mA Transformer and Control panel with Motorized Auto transformer was installed and commissioned.

Prof. R.V. Chitra Memorial Endowment

In fond memory of Late Prof. R.V. Chitra, the members of Department of Electrical & Electronics Engineering instituted the "Prof. R.V. Chitra Memorial Endowment", in 2011 - The award is presented to the final year EEE branch student who scores the maximum marks in the subject Electrical Machines I, II and III - Ms. Athira A.S., S8 EE, won the Award this year.



Dept. of Electronics and Communication Engg.

Research Activities

Dr Sakuntala S. Pillai, Dean R&D, has been guiding the work of various research scholars. Their Doctoral research is in progress.

Publications

- Four papers were presented in the Second International Conference on Emerging Technology Trends (ICETT) in Advanced Engineering Research, Baseliros Mathew II College of Engineering, Kollam, Kerala.
 - Rahul Mishra, Nidhin Pradeep, Roselin Raju and Prof. S Viswanatha Rao, "Performance Evaluation of Wireless Sensor Connectivity over Multiple Hops".
 - Asha Parvathy M, Aswathy A J, Jinju Anu Thomas, Priya Mary Rajan and Dr. Sakuntala S Pillai, "Channel Estimation in MIMO-OFDM".
 - Jyothi Mariam Joseph, Karthika L, Roselin L, Linta Raj and Dr. Sakuntala S Pillai, "Performance Analysis of Wavelet based OFDM Systems".
 - Alin Ann Thomas, Anishiya John, Jerrin Thomas Panachakel, Nithin Gomez and Luxy Mathews, "Video Processing Engine for Vintage Videos".
- Anupama Satheesh, Maria George and S. Viswanatha Rao, "A Novel Algorithm for Gesture Recognition", National Conference on Emerging Trends in Electronics, St. Joseph's College of Engineering & Technology, Palai, in December 2011. Sajjan Jose P. C., Swathikiran S, C Rahul, Akanksha and B Subhasree, "Gaze Controlled Automatic Wheel Chair for Paralyzed Patients", National Conference on Advances in Communication Systems, St. Joseph's College of Engineering & Technology, Palai, December 2011.

The above papers were published in "SJCET Journal of Engineering and Management" Volume 5, No 1, July-December 2011.

Seminar/Conferences attended/organized

- Ms. Remya Elizabeth Mathew attended "A Short Term Course on Nanotechnology", Marian Engineering College, Kazhakuttom, Trivandrum, in December 2011 and another on Nanoelectronics, College of Engineering, Trivandrum, 30 January to 3 February 2011.
- Ms. Ann Mary Alex attended "Minicolloquium on Microelectronics Circuits and Systems", NI Centre for Higher Education, 24 February 2012.

The following programmes also were held:

- "Short Term Training Program on Embedded Systems & VLSI with Practical Applications", 21 to 25 November 2011 was coordinated by Mr. Sajjan Jose P. C.



- 2 Invited talk by Prof. S. Viswanatha Rao on "Technical Standards and Standardization Process" at the Institution of Engineers Hall on 28 September 2011.

Achievements of Students

- 1 An Invited talk on "Lego Mindstorms" by Mr. Sreekanth Madhavan in an event Robofest, as a part of Crossroads 2012 was held on 18 February 2012.



- 2 The Electronics Association conducted a Technical Extravaganza on 6 January 2012. The fourth issue of E-Wave, the Electronics Association Newsletter published by the students of ECE department was released on the occasion. Sri. G. Ravindranath, distinguished scientist, ISRO, inaugurated the function and delivered a talk on the topic "Launch Vehicles". This was followed by the quiz program "Samasya".
- 3 Aathira Ravikumar, S6 EC became the University topper in 3rd Semester.
- 4 The paper "Bilayer Noise Reduction of Echocardiography Images Using Contourlet Transform and Iterative Noise Free Filtering", presented by Jerrin Thomas Panachakel of S8, Electronics and Communication Engineering, got first prize in "ADVAITA", an event conducted by Marian Engineering College, Trivandrum and second prize in "COLLOQUIUM 12", an event conducted by Mohandas College of Engineering and Technology, Trivandrum.



& Technology conducted ALL KERALA YOUNG SCIENTIST (AKYS) 2012 on 25th February 2012. AKYS is an initiative of the IEEE MBCET SB. It is a talent hunt event which is exclusively for the 1st year students giving them a platform to showcase their skills and potential. The finale of All Kerala Young Scientist 2012 competition witnessed participation from 12 Student Branches from across Kerala. Gopika M S of first year Electronics and Communication Engineering, Mar Baselios College of Engineering & Technology was declared as the All Kerala Young Scientist 2012 with Jishnu Vijayakumar of College of Engineering, Chengannur as 1st runner-up and Gayathri of College of Engineering, Trivandrum as 2nd runner-up.

- IEEE Student branch organised a talk on 'Empowerment of Women' by Dr. P.G. Latha, Director, TBGRI, in accordance with the "International Womens Day" on 8th March 2012.
- Achala JS (S8 CE), Chairperson, IEEE MBCET Student branch won IEEE Kerala Section's "Outstanding WIE Volunteer of 2011" award for her contributions to the Women in Engineering field. She is also the Treasurer of "Local Integrated network of Kerala" (LINK) and Chief Editor of online News Letter of Link - "LINKLine".
- Dainy Daynesious (S6 ECE), Secretary of IEEE MBCET Student branch recieved "IEEE Kerala Section Award for LINK Sustainability and HUB1 Reactivation Initiative". She is the Assistant Hub Driver of IEEE Hub1 under Kerala Section.
- Women in Engineering (WIE) MBCET student branch conducted - "WIE CARE" on 21 August 2011 by visiting the JUVENILE HOME, Trivandrum. The event was aimed at bringing the volunteers of our student branch to a completely different experience. All the children participated in a painting competition conducted on the occasion. The clothes collected from different students of the college were handed over to the caretaker of the Home.

Extracurricular Activities Fostering Community Relations/Charity

IEEE activities

- IEEE Student Branch conducted a workshop on "Familiarization of Arduino" on 11th February 2012. The workshop was conducted by Aju Sam Sunny (S6 ECE, IEEE Technical Head), Benjamin Mathews Abraham (S6 ECE) and Ashley Anna Sunny (S6 ECE). 35 students from our college attended the workshop.
- IEEE Computer Society MBCET Chapter & IEEE MBCET Student Branch conducted one day workshop on Cloud computing on 18th February. The session was handled by Dr. Sherly Elizabeth, Director, IIITMK.
- IEEE MBCET Student Branch conducted a one day seminar on Cyber Crimes and Cyber Security on 18th February. The session was handled by Mr Nabeel Koya, Senior Scientist, Centre for Cyber Forensics, CDAC, Trivandrum.
- IEEE Student Branch, Mar Baselios College of Engineering

Dept. of Information Technology

Important Events

Seminar

- A One day seminar on "IPv6" (Internet Protocol Version 6) for teachers of Engineering-Science Institutes, PG students, was organized in association with the Computer Society of India coordinated by Ms. Asha S and Ms. V.S Devipriya as part of the Decennial celebration on 12 November, 2011. Mr. Manoj M (Sub Divisional Engineer, RTTC, TVM) and Mr. G. Prem Kumar (Sub Divisional Engineer, RTTC, TVM) were the Course Instructors.
- Ms. Asha S. and Ms. Devi Priya V. S. attended a seminar on 'Long Term Evolution' organized by RTTC, TVM on 24 September, 2012.

Paper Publications

- Ms. Elizabeth B. Varghese published a paper titled 'A Fuzzy Neuro Approach to Vector Quantization based Face Recognition' in the MBCET Journal of Research volume 1/ Number 1, January 2012. • Mr. Vishnukumar S. published a paper titled 'Adaptive Local Image registration Analysis on Filter Size' in the MBCET Journal of Research volume 1/ Number 1, January 2012. • Ms. Jisha John published a paper titled 'A Comparative Study of Methods to Enhance Weather Degraded Color Images' in the MBCET Journal of Research volume 1/ Number 1, January 2012

Short Term Courses and Training

- Mr. Biju B. Varghese and Mr. Vishnukumar S. gave a one day training on 'Computer Awareness & Online Services' to Senior citizens of Gandhi Nagar, Vazhuthacaud on 29 October, 2011. • Mr. Biju B. Varghese attended a short term training program on 'Java Frame Works' organized by Infosys from 6 to 9 December, 2011.

Workshop

- Ms. Elizabeth B. Varghese, Ms. Asha S. and Ms. Devi Priya V. S. attended a workshop on 'Enabling Excellence in Higher Education Through NPTEL and ICT' organized by IIITM-K on 28 January, 2012.

Technical Fest/ Student Convention

- A Regional Student Convention was organized by the CSI Student Branch in association with Department of Information Technology on 27 August 2011. Mr. Satish Babu, President, CSI, inaugurated the Convention.



Dept. of Mechanical Engineering

- 1 A short term training program on 'ADVANCES IN CFD APPLICATIONS' was conducted as a part of the Decennial celebrations from 14 to 18 November 2011. Experts from NIT C and VSSC handled various sessions regarding the recent developments in the field of Computational Fluid Dynamics and its applications in the field of aerospace.
- 2 CATIA training programme was conducted for the students,

by the EDS Technologies Pvt. Ltd., Bangalore from 17 to 22 January 2012. The second stage of the programme was completed in March 2012.

OFFROADZ

OFFROADZ, an automobile exhibition, first of its kind, was conducted by the Department of Mechanical Engineering on 24 & 25 February 2012.



Publications/Presentation of research papers

- 1 Mr. Francis J. Emmatty & Mr. Sarmah S. P. (2012): Modular Product Development through Platform-based Design and DFMA, Journal of Engineering Design, DOI:10.1080/09544828.2011.653330
- 2 Ms. Saranya: 'Numerical Analysis of Supersonic Flow Over Well Mounted Localized Protrusions in IUTAM symposium on Bluff body flow, IIT, Kanpur.

Exhibition of the Project Models

An exhibition of the Project Models of the S8 ME students was held on 16 March 2012. The exhibition was inaugurated by Fr. Wilson Thattaruthundil, the Bursar, Dr. T. M. George, the Principal, Prof. K. M. Raju, HoD, Prof. Gisuthan & Prof. Venkatesh, Project Co-ordinator were present on the occasion.

The exhibits included :

- Rubber Tapping Machine • Energy Audit at MBCET • Monojet Hydro Engine • Blood Flow Measurement Device • Overload Indicator for Vehicles • Vapour Absorption Refrigerator • Coconut Dehusking Machine • Shaftless Fan • Tilt and Roll Bed for the aged • Solar Refrigerator • Variable Range Fan • Hydrogen boosted IC Engine

Among these projects, seven are awaiting Patent Right



Dept. of Basic Sciences

The Department of Basic Sciences, organized an orientation programme for the first year students on Aug 12, 2011, Dr. Justin Padamadan the famous psychologist led the programme.

As part of the decennial celebrations of the College, Department of Basic Sciences organized a lecture series "Sasthra 2012". The first part of the series was conducted on 5th January, 2012 which was inaugurated by Fr. Wilson Thattaruthundil. Dr. C. Gouri (Senior Scientist VSSC, Thiruvananthapuram) gave a lecture on 'Battery Systems & its Space Applications' and Prof. J. Sureshan (Former HoD, Department of Mathematics, TKMCE, Kollam) lectured on 'How to make Maths Study Easier'.

Ms. Angeo Varghese and Ms. Binimol Mary Mathew participated in the National Seminars on:

- 1 'Recent Trends in Chemistry' organized by the Department of Chemistry University of Kerala, Aug, 2011
- 2 'Nano Science and its Bio medical Applications' at St. Johns College, Anchal, Nov, 2011.
- 3 'Green Chemistry' organized by Department of Chemistry, S. N. College Chempazhanchy, Dec, 2011.

Ms. Rajalekshmi I. S., participated in the Short Term Course on 'Discrete Mathematics & Graph Theory' organized by the Department of Mathematics, College of Engineering, Trivandrum.

Ms. Tiji Thomas and Ms. Sabitha S. Nair participated in National Seminar on 'Algebra, Analysis & Discrete Mathematics & Graph Theory' organized by the Department of Mathematics, University of Kerala, Trivandrum.

Ms. Dhanya Ramachandran, Ms. Tiji Thomas and Ms. Neeradha are engaged in Research work leading to PhD Degree.

MBCET Library News

Mr. Binu K. John, Asst. Librarian published and presented a paper titled "Content Management System using Wordpress" at the Kerala Library Association (KLA) National Seminar on 'Content Management and Libraries: New Vistas for Harnessing Information' held at Trivandrum from 14-16 July 2011. He organized an awareness session to the faculty members on the E-Resources (E-Journals, E-books, Digital repositories) subscribed by the MBCET library on 30 & 31 January 2012.

MBCET Library conducted a One day Workshop on "Academic Writing Using LaTeX" on 18 October 2011 for the members of Faculty. Prof. Dr. E. Krishnan, former HoD of Mathematics, University College, Trivandrum was the resource person.

The MBCET library procured access to 5 more E-journals packages viz. Elsevier's Science Direct, Springer link, McGraw Hill's Access Engineering, ASTM Digital library, Jgate - JET plus existing 3 packages viz IEEE, ASCE & ASME.

Sports & Games

Kerala University

Event	Nature of Event	Winner/Position
Table tennis Women	Individual Championship	Deepa Rose Francis
	Team Championship	Winners
Table tennis Men	Team Championship	Winners
Chess Women	Team Championship	Winners
Shuttle Badminton Women	Team Championship	2nd position
Lawn Tennis Men	Team Championship	3rd Position
	Double Championship	3rd position
Basketball Men		Winners



Deepa Rose Francis



Shuttle Badminton Women



Table Tennis Men



Chess Women



Table Tennis Women



Lawn Tennis Men

All India Inter University Competitions

Name of Student	Nature of Events	Winner/Position
Neethu Ninan, S4 EC	South Zone Inter University Competition - Shuttle Badminton	3rd Position
Ashin Xavier Philip-S8ME Amit Sebastian -S6 IT Sarath Mohan-S8 EE Ajith V.K -S1S2 IT Srikanth Sasidharan -S1S2 ME Nithin George-S4 IT	South Zone Inter University Basketball Competition	Participated
Mufti Nujum-S8 CS	South Zone Inter University Kho-Kho Competition.	Participated
Deepa Rose Francis-S6 CS Elizabeth Cherian-S4 CE Joel Jose Paul-S4 ME	South Zone Inter University Table Tennis Competition	Participated
Advaith R.S-S8 CE	South Zone Inter University Lawn Tennis Tournament.	Participated

Kerala State Competition

Name of Student	Nature of Events	Winner/Position
Srikanth Sasidharan -S1S2 ME Robin Roy-S1S2 ME Ajith V.K.-S1S2 IT	Trivandrum District Team - Senior State Basketball Competition	1st Position
Ashin Xavior Philip -S8 ME Amit Sebastian -S6	Pathanamthitta District - Senior State Basketball Competition	3rd Position

Senior National Competition

Ashin Xavier Philip- S8 ME represented Kerala State for the All India Basketball Competition held at Chennai.

Basketball Achievement

Winners of Amal Jyothi Tournament, Viswajyothi Tournament, YMCA Alappuzha Tournament, Kerala University Tournament, Runner up in Mar Ivanios Tournament



Annual Sports

The MBCET Annual Sports Meet was held on 15 February 2012. Dr. T. M. George, the Principal, hoisted the flag and declared the meet open. 19 events were held for both men and women. The closing ceremony was held in the evening at which Prof. K. M. Raju, Dean (Admin.) & HoD, ME, was the guest of honour.

Results : March Past ● 1st - C E ● 2nd - M E ● 3rd - E C

Individual Champion Men – Anoop F. R. (S1 S2 – M E)
Women – Nikita Maria Lesley (S6 EC)

Women's Section Champion ● 1st - C E ● 2nd - E C ● 3rd - C S

Men's Section Champion ● 1st - M E ● 2nd - C S ● 3rd - C E

Overall Championship ● 1st - M E ● 2nd - C E ● 3rd - C S





Crossroads – 12

Crossroads, the National Level Inter Collegiate Cultural and Technical Fest provides platform for College students to showcase their talents. It provides an arena where talent meets the talented.

Crossroads -12 showcased 53 technical and cultural Events & Contests, from 23 to 26 February 2012. This year OFFROADZ, an Auto-Expo, piloted by the Department of Mechanical Engineering added a new dimension to the Crossroads.



Arts Events

University Youth Fest - 2012

The MBCET team won the Runner's Up Trophy in the University Youth Fest -12 held at Kollam, with 72 points, for the first time in the history of MBCET. Vishnu Vijay, the pride of MBCET won 16 points.

Result

Overall championship ---2nd, Light Music Male -- First (Immanuel Henry, S4 CE), Classical Music Male -- Third (Immanuel Henry, S4 CE), Stringed Instrument Violin -- Second (Vidhya Varma .E, S8 IT), Western Vocal Solo - First (Micheal Teddy Fernandez S8 IT), Western Vocal Group -- First, Group Song---Third, Ganamela-- Third, Bharathanatyam Male -- First, Ottamthullal -- First, Kuchupudi Male --- Second, Kathakali Male --- Second (Vishnu Vijay, S1S2 CE), Bharathanatyam Female -- Second (Neethu Suresh, S1S2 CE), Margamkali -- Second. Debate English -- Second (Reuben.S.Jones, S8 ME & Aswin. P. Kumar, S4 ME), Elocution English --- First (Gopika M. S., S1S2 EC), Essay Writing Malayalam -- First (Nanda Kumar S. R., S8 CS), Fancy Dress -- Second (Lydia Sebastian,S8 CS)

Various prizes in Dhvani 2012, conducted by College of Engineering, Trivandrum.

- Eighth semester ECE students

- Creative writing (Malayalam): 1st place – Livin V. Mathew & Senu George 3rd place – Neenu Anna Philip
- Collage:1st place – Livin V. Mathew & Senu George
- Eastern orchestra: 1st place – Nithin Gomez and group

Roselin Raju and Nithya Mathai won 1st place & Asha Parvathy M and Roselin L won 2nd place in MATLAB GURU, an event in TEJASVI – 11, a Techno cultural fest conducted by Marian Engineering College, Trivandrum.

Various prizes in YAGNA DHURVA '12, conducted by LBS Institute of Technology for Women, Trivandrum.

- Sixth semester ECE students

- RED HERRING (Treasure hunt): 2nd place – Preenu Sara Jacob, Sristi Gupta, Nikita Maria Lesley & Dainy Daynesious
- ZAP IT UP (Advertisement):1st place – Sristi Gupta & Dainy Daynesious
- GAG ORDER: 3rd place – Sristi Gupta & Dainy Daynesious

The Fashion Show Team Members : Colin T. John - S8 ME, Raveen - S4 CE, Jim Joy - S6 EE, Linto - S6 EE, Aswin - S6 EE, Susan - S8 CE, Priyanka - S8 CE, Tara - S6 EC, Sruthi - S1 S2 EC, Gopika - S1 S2 EC, Amit - S6 IT, Alex - S8 ME, Anson - S8 ME, Neethu - S4 EC, Karthika - S6 CS, Taniya - S6 EC and Anu David – S6 ME.

Consultancy

The Civil Engg. Department has taken up a project on River Bank Mapping of Karamana river for the Revenue Department, Kerala, costing Rs.4 lakhs . This project was under the

River Management Programme aided by the Central Government. The data collected is digitalized and used for River Data Management Programmes. The project was undertaken by some of the few final year Civil Engineering Students. The project has been successfully completed and the State Government has taken this work as a pilot project to be executed for all the 44 rivers in the State. The project co-ordinator is Sri. H. Ratheesh Kumar Asst Prof, Civil Engineering Dept.



Research Project:

Kerala State Council for Science, Technology & Environment – Engg & Technology Programme approved a project worth Rs.11,60,000 .on "Investigation on the Corrosion Performance of Blended Cement Concrete by Incorporating Recycled Concrete Aggregates" submitted by Ms. S. Jayasree, Asst. Prof., Department of Civil Engg. The project is under implementation in the Civil Engg. Dept.

Dept. of Civil Engg. conducted various tests on materials supplied by M/s. Shine Industries, Kollad, Malayinkeezhu, Tvm.

Achievements/ Awards

- Dr. A. Komalavalli Amma, HoD, Civil Engineering Dept. has been inducted into International Professional and Business Women's Hall of Fame, for outstanding achievement in "Water Resources Management".



Ms. Deepthi Anna George, S8 CS, has been awarded the 'Richard E Merwin' Scholarship of \$ 2500 by the IEEE Computer Society. The IEEE Kerala section student Activity Committee presented her the 'IEEE SAC Excellence award of 2012. She has been chosen as the Student Ambassador of the IEEE Computer Society for the Asia Pacific region



- The Computer Society of India (CSI) Student Branch of Mar Baselios College of Engineering and Technology has won the prestigious **Best CSI Student Branch Award** for the year 2011 from among 109 Student branches in Kerala, Tamil Nadu and Pondicherry. This is the second consecutive time that the MBCET student branch wins this award.



NASSCOM

The Executive Council of National Association of Software and Services Companies (NASSCOM) conducted an Interactive session with the students of various Engineering and Management Colleges in Kerala on 30 September 2011 at MBCET.

The following members of the NASSCOM Execom were present at the session:



- Mr. Rajendra Pawar – Chairman, NASSCOM & Chairman and co-founder of the NIIT Group
- Mr. Som Mittal – President, NASSCOM
- Mr. V K Mathews – Executive Chairman, IBS
- Mr. Ashank Desai – Chairman, MASTEK
- Mr. C. P. Gurnani – CEO, Mahindra Satyam
- Mr. Ganesh Lakshminarayanan – President, Dell India
- Mr. Aparup Sengupta – Managing Director and Global CEO, Aegis

- Mr. Rajesh Nambiar – General Manager → Services Integration Hub East, IBM
- Mr. Bhaskar Pramanik – Chairman, Microsoft Corporation
- Mr. Sharad Sharma – Chairman, Movico Technologies

Spiritual Formation/ Value Education / Personality Development

Believe 2012

Under the auspices of the MBCET Jesus Youth Wing Believe 2012, the Professional Students' Conference was held at the College from 13 to 15 Jan. 2012. 475 Professional Students participated in the Conference. **H.E. Cardinal Leonardo Sandri, the Prefect of Pastoral Commission** gave the Benedictory Address. **His Beatitude Moran Mor Baselios Cleemis Catholicos**, the Major Archbishop and Patron presided over the function. Fr. Wilson Thattaruthundil, Bursar, MBCET spoke on the occasion.



Yes!+ Course

The Course was successfully conducted for the students of MBCET from 13 to 18 Feb. 2012. The course was intended to rejuvenate the mind and body of the participants.

Placement Cell

The total number of job offers for the 2012 Batch as on 1 March 2012 has been 153, with the split up:

Infosys – 114, HCL – 9, UST Global – 12, IBS Software Services – 14, NeST -1, CSS Cop. -1, ITC 2.

Mar Baselios Youth Excellence Award – 2012 Presented

Mar Baselios Youth Excellence Award has been instituted in honour of the Founder of the MBCET, the late His Beatitude Moran Mor Cyril Baselios, the Major Archbishop Catholicos. True to the spirit of the Founder's vision, the award is intended to identify and promote the pursuit of excellence among the Engineering students of Kerala. The winner is selected on the basis of all round excellence in Academic, leadership, arts & sports, Personal Conduct, Ethics and Social Service Activities. A Panel of Experts will short list the entries for the award. The winner will be selected from the short listed candidates after a personal interview. The award comprises a prize money of Rs. 1,00,000/-, Certificate and Memento.

Ms. Hanna Paulose, S8 ME, Mar Athanasius College of Engineering, Kothamangalam, this year's winner, received the award from Padmavibhushan Dr.G Madhavan Nair, Former Secretary, Department of Space & Former Chairman ISRO, Govt. of India. His Beatitude Moran Mor Baselios Cleemis Catholicos, the Major Archbishop of The Malankara Catholic Church presided over the function. Rev. Fr. Wilson Thattaruthundil, Bursar and Dr. T. M. George, Principal, spoke on the occasion.

Ms. Hanna, the final year ME Student, is engaged in Research at the Dept. of Applied Mechanics, IIT Madras. She worked under Prof. Stan Franklin of University of Memphis, USA. She was Research Assistant at the Indian Institute of Science, Bangalore and Research Fellow at the C. V. Raman Research Institute, Bangalore. She presented Research Papers at the Asia Pacific International Symposium on Aerospace Technology, Tokyo, Japan and the International Conference on Management of Technology, Cairo, Egypt.



MBCET Annual Day Celebrated

The Eleventh Annual Day of the College was celebrated on 23 February 2012. The celebrations were inaugurated on the occasion of the opening ceremony of the Cross Roads-'12. His Beatitude Moran Mor Baselios Cleemis Catholicos, the Major Archbishop of Trivandrum, and Patron of the College inaugurated the Programme. Shri. John P Zachariah, Associate Director, VSSC gave the key note address. A total of 101 prizes were given to students having achievements in various fields namely Academic All Round Award - 6 Nos, Proficiency Award – 18 Nos, Perfect Attendance Award -15 Nos, Sports Achievement – 35 Nos, Arts - 22 Nos and Special Achievement Award -5 Nos



Research Journal Published

The MBCET Journal of Research was released on 23 January 2012 during the presentation ceremony of the Mar Baselios Youth Excellence Award. The first copy released by His Beatitude Moran Mor Baselios Cleemis Catholicos was received by Padmavibhushan Dr.G Madhavan Nair, Former Secretary, Department of Space & Former Chairman ISRO.



University Youth Fest - 2012 Winners



Immanuel Henry



Lydia Sebastian



Nandhakumar S.R.



Vidya Varma



Vishnu Vijay



Neethu Suresh



Micheal Teddy Fernandes



Aswin P. Kumar & Reuben S. Jones



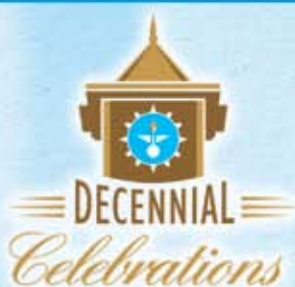
Gopika M.



Margamkali Team



Western Vocal Group



Duc In Altum..... To the Heights of Excellence

...through a Decade...

And yet Decades to go...

The Decennial Horizon

Beckons you to shape history.



The founder conceived it. We build it. Posterity sustains it.

Managing Editor : Rev. Fr. Wilson Thattaruthundil, Bursar

Editor-in-chief : Dr. T. M. George, Principal

Editor : Dr. George Zachariah

Board of Editors : Mr. Joji Varghese (Dept of Phy. Edn.), Mr. V. K. Kuriakose (Supdt.), Ms. Jomole Joseph Peedikayil (Dept. of EEE),
Ms. I.S. Rajalekshmi (Dept of Basic Science), Mr. Renjith S. (Dept. of ME), Ms. Deepa P. L. (Dept. of ECE),
Ms. Smitha Jacob (Dept. of CE), Mr. Praveen G.L. (Dept. of CSE) and Mr. Vishnukumar S. (Dept. of IT)

Tel : 0471- 2545866 / 2545868 / 2545872 **Fax :** 0471-2545869 **Email :** mbcet@mbcet.org **Website :** www.mbcet.ac.in

For Private Circulation only | Layout, Design & Printing - St. Joseph's Press, Tvm-14