



In Altum...

The MBCET News Letter

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



Mar Baselios Youth Excellence Award 2013 Presented



Akhilesh P. Varier
Rank No.153

EMINENT ALUMNI

They made MBCET proud with their commendable performance in the Civil Service Examinations 2012.

Congratulations!



Gayathri Krishnan B.
Rank No.37

Message from the Bursar



Development and progress entail responsibility and reponsibility ensures Progress and Development. Both are complementary. Higher Education is a continuing development process. MBCET in its commitment to Professional Higher Education, defines itself as a tool for this process and transforms itself and its stakeholders as agents of Nation Building, and thereby humble contributors in the making of history and civilization.

The post-decennial scenario, thanks to the Almighty and all those involved in the making of this Institution, has been truly encouraging. We could increase the number of batches at the Undergraduate Level and could offer more courses at the P.G. Level. These are sure indices of growth and reminders of our sense of responsibility. We can rightly be proud of our results in the University Examination but it should not lead us to false pride, making us vainglorious. Instead it should make us more responsible, to ourselves and to the environment. It is through this responsibility that we acquire the dignity and probity of our individual spaces so as to emerge as the custodians of Future.

Rev. Fr. Wilson Thattaruthundil

Principal's Desk



Welcome to another issue of the MBT Newsletter 'In Altum'. The new academic year has begun and new batches of students were warmly welcomed in the campus. When an extraordinary teaching fraternity and student body are matched up, the result is a unique culture which makes the College as a vibrant place to learn and grow on many fronts. In today's highly competitive world of Higher education, my job is to complement our strengths, by building awareness and to enhance resources and to make sure that the College stays focused and provide our students with an outstanding educational experience. Our campus provides the students a caring and disciplined environment conducive to the harmonious development of their intellectual, physical, mental and spiritual faculty. Seize the day and seize the opportunity.

Every moment should be saved enabling to define oneself in the milieu in which one finds himself or herself as a tool of harmony in the scheme of things.

Dr. T. M. George

Editors Note

Pursuit of Excellence is the catch-phrase today. It is one of the yardsticks of the evolutionary growth of civilization. And man has successfully re-enacted the Big Bang in the Lab, closing in to the mystery of the Universe. Everything stands revealed, no secret, no privacy, no enigma! Technology robs man of his privacy and mystery. What will then be the nature of human fate and history? Technology unravels Big Bang, yet, mankind continues to be terrorized by a thousand menaces.

Human pursuit for excellence, if mistaken as the attainment of Individual Excellence, is likely to involve the danger of converting man into an arrogant egotist with all the traits of a Nimrod, creating Towers of Babel, or estrangement among fellowmen, as evidenced by the sprouting of old age homes, one of its symptoms.

Though we recreated Big Bang, could we avert the cloud-burst in Uttarakand or any other calamity or disaster? Human intervention for personal comfort and luxury should give way to the maintenance of harmony and equilibrium, at the individual, social and universal levels. Pursuit of excellence should become synonymous of pursuit of peace.

Dr. George Zachariah

3rd Youth Excellence Award Presented

The presentation ceremony of the Youth Excellence Award 2013 was held at 2.30 pm on 16 Aug. 2013 at the Olympia. Fr. Wilson Thattaruthundil, Convenor, Award Committee introduced the Award winner, **Dr. Shashi Tharoor**, Hon'ble Minister of State for Human Resource Development, Govt. of India, the Guest of Honour, presented the award to the winner Mr. Sidharth K. Varma, Civil Engg. Dept., College of Engineering, Trivandrum. **His Beatitude Moran Mor Baselios Cardinal Cleemis Catholians**, who presided over the function gave the Presidential Address, and presented the Certificate of Excellence to the Awardee. Shri. Johnson Joseph, Leader of Opposition, Trivandrum corporation felicitated the Award Winner. Mr. Sidharth Varma is the recipient of the 3rd Award

Design and Innovation Workshop by MIT Media Lab

MBCET hosted the 3 day workshop conducted by world's top ranking University, Massachusetts Institute of Technology (MIT)'s Media Lab department on Design and Innovation Workshop from 30 July to 1 August. Engineering Students, Arts & Science Students, Engineers, Designers and Entrepreneurs took part in the event. The objectives of the workshop were to share MIT's and the Media Lab's interdisciplinary research, design, and development cultures like hands-on creative learning and rapid prototyping and get students to work on meaningful problems. There were tutorials, brainstorming sessions, proposals, designs, short presentations, discussions and prototyping activities.



Civil Engineering Dept.

Dr. Neethu Roy Associate Prof. received her Doctorate Degree from IIT Madras



Faculty Inclusion

The following persons joined the Department of Civil Engineering: a) Ms. Sree Priya – M Tech from College of Engineering, Trivandrum b) Ms. Jean Melly Simon – M Tech from College of Engineering, Trivandrum c) Ms. Ansu Mathew – M Tech from Vellore Institute of Technology d) Ms. Parvathy U. – M Tech from College of Engineering, Trivandrum e) Mr. Tom George – M Tech from IIT, Roorkee f) Ms. Sara Mathews – M Tech from IIT, Roorkee.

Papers Presented and Workshops attended by Faculty Members

- Prof. P. N. Mohan gave the guidelines for IES Examination to students of various Engineering Colleges at the Institute of Engineers, Trivandrum in June, 2013.
- Ms. Ann George attended a Seminar on 'GIS and its Application in Civil Engineering' at the TKM College of Engineering in July 2013.
- Ms. Bindu Biju and Ms. Tisny DB attended a workshop on 'Advanced Structural Analysis' held at Marian College of Engineering, Trivandrum in June 2013.

Consultancy and Research Work

The Civil Department continues to take up consultancy work and projects. Prof. P. N. Mohan and Ms. Ann George coordinated the testing on soil samples supplied by: 1. National Coir Research and Management Institute, Trivandrum. 2. M/S Harrison's Malayalam Ltd. for the construction of Bus Terminal Complex at Thampanoor, Trivandrum. Other consultancy works for Govt. /private agency are going on.

Thanal

The societal bureau of the Civil Engineering Department keeps on rendering generous services to the under-privileged members of the Society. As a part of its activities, Prof. P. N. Mohan,



Mr. Arun V. M. (Thanal Co-ordinator), Mr. Ajimon Thomas, Ms. Anupama Sugathan, Ms. Neema Therese, Ms. Ansu Mathew and about 50 students from the Civil Engineering Department had the humbling experience of visiting an institution for the Mentally Challenged, at Pangappara on 28th July, 2013. The students had an interactive session with the children and performed various programs to entertain them. The students offered books, toys, snacks and cakes to the children. The day's lunch was also sponsored by Thanal.

Staff Tour

The Staff of Civil Engineering Department had a houseboat journey at the Ashtamudi Lake in May 2013. The beautiful and serene backwaters offered a bewitching sight. The cruise from Kollam to Alappuzha, which lasted for eight hours, was a wonderful experience for the members.



Students' Achievements

1. Anurupa S. Kumar of S5 CE won the 'Miss Ragam' title at NIT, Calicut and 'Miss Dhvani' title at College of Engineering, Trivandrum
2. Ajay S Paul of S5 CE won 1st in Spot Choreo at the Saintgits College, Kottayam. He secured 2nd position for Solo Dance also at Muslim Association College of Engineering, Venjanamoodu.
3. Sarah Jacob of S5 CE won 2nd for Choreo Video at 'Agneya' conducted by Government Engineering College, Barton Hill. She secured the 3rd position also for Choreo Video at 'Impulse' conducted by the Muslim Association College of Engineering, Venjanamoodu.

Computer Science and Engineering Dept.

Seminars/Workshops Attended

Mr. Shibu V. S., Ms. Sunitha Krishnan K. S., Ms. Anupriya Vysala, Ms. Anne Dickson, Ms. Sarada B. S., Ms. Noenu Mary George, Mr. Robin Joseph and Ms. Krishna Girish attended a two-week ISTE workshop on "Database Management Systems" in May 2013 conducted by the IIT Bombay at this Institution through Video Conference.

Mr. Praveen G. L. conducted a three day workshop at this Institution on "Theory of Computation" for the faculty members of the Department of Computer Science and Engineering and Information Technology.

Ms. Anitha Sandeep, Mr. Shibu V. S., and Ms. Anjali C attended a Short Term Programme on "Network on Chip" sponsored by TEQIP II on 24 and 25, July 2013, organized by the Dept. of CSE, TKM College of Engineering, Kollam.

Ms. Anitha Sandeep and Mr. Praveen G.L. attended a Short Term Training Programme on "Topics in Theoretical Computer Science" sponsored by TEQIP-II from July 29 to August 1, 2013 at LBS Institute of Technology for Women, Trivandrum.

Faculty Inclusion

Prof. Vikraman Nair, B.Sc. (Engg), DEA, Dr Ingr (Pierre and Marie Curie University, Paris), Rtd Dy. Director VSSC / Former Emeritus Professor, IIST, Valiyamala, Aswathy Ravikumar, MTech., Binu Jose, MTech., Gayathri K.S., MTech., Krishna Girish, MTech., Jisha Jose, MTech.

Research Pursuits

Ms. Anne Dickson went on study leave with effect from 14 August 2013 to pursue her Ph.D programme in Computer Science & Engineering at CERD at CET.

New Courses

The AICTE has given approval for an additional batch in Computer Science & Engineering, at the Undergraduate Level.

Paper Presentations and Publications

Ms. Aswathy Ravikumar has published a paper titled "Recent Trends in Computational Prediction of Renal Transplantation Outcomes" in International Journal of Computer Applications, 63(12):33-37, ISSN: 0975-8887, Vol. 63, No.12, February 2013. Besides, she has presented papers as detailed below:

- "Support Vector Machine Based Prognostic Analysis of Renal Transplantations" in the Fourth IEEE International Conference on Computing, Communication and Networking Technologies ICCCN, July 2013.
- "A Novel Approach for Presage of Renal Transplantation Outcomes" in the National Conference on Technological Trends 2013, College of Engineering, Trivandrum, August 2013.

Ms. Jisha Jose has presented a paper on "Remote Heart Monitoring and Diagnosis Service Platform via Wearable ECG Monitor" in ICICN conducted at VINS Christian College of Engineering, Tamil Nadu, February 2013 and published the same in International Journal of Science, Engineering and

Technology Research (IJSETR) Volume 2, Issue 5, May 2013.

Ms. Anjali C. has presented a paper on "Malayalam Text Compression", in the International Conference - ASCENT 2013 conducted at IITMS College Malaysia, on 11th & 12th of April 2013 and has published the same in International journal of information Systems and Engineering vol.1, No.1, April 2013 pp 1-19.

Mr. Binu Jose has presented a paper on "SIP Client customization using scripting SIP Libraries- A study" in the Second International Conference on Computing and Communication Technology ICCCT'13 at Kanyakumari, Tamil Nadu on 1st March 2013.

Achievements of Students

* "Prof. S. Krishnakutty Memorial Award" was presented to Ms Anupriya S, Mar Baselios College of Engineering and Technology, by G Padmakumar, Director and CEO, Cellapp Technologies at 37th Annual General Body meeting (AGM 37) of the Computer Society of India(CSI), Trivandrum Chapter (CSI-TVM), held on 18th May 2013. The award was sponsored by CellApp Technologies, for the student who secured the highest marks upto the VIth Semester B.Tech. (CS/IT).



The project titled "SAMARITAN" done by the SB students Phil Angadi, Souu George, Navya S. and S. H. Neetha has won first prize in innovative idea competition by PMI Conference Trivandrum Chapter. Besides they have won first prize in "itiha 2013" held at Rajadhami Institute of Engineering and Technology and second prize in "Crossroads 2013" at Mar Baselios College of Engineering and Technology.

Electronics and Communication Engineering Department

1. Research Activities

Dr. Sakuntala S. Pillai, Dean (R&D), is guiding the following students in their doctoral research work under the University of Kerala in the area of Communications: Beena A. O., Luxy Mathews, Menon Ambika Omana & Suma Sekhar.

The following students have completed their doctoral research work. 1. Susan R. J. ("Performance Study of Chaotic Sequence based Multiple Data Rate OFDMA System"), Ph.D thesis

submitted to University of Kerala. 2. Steelatha P. ("Studies on the Application of Spread Spectrum Techniques to Satellite Beacon Experiments"), Synopsis of the thesis submitted to the University of Kerala.

2. Publications

1. Beena A. O. and Dr. Sakuntala S. Pillai, "Performance of OFDM Systems Using Nonlinear Companding Transform" Proceedings of the International Conference on Global Innovation in Technology and Sciences at SAINTGITS College of Engineering, Kottayam during 4 - 6, April 2013.
2. Authira Ravikumar, Ajay Thomas Mathew, Aparna S., Fincy Mariam Koshy and Dr. Sakuntala S. Pillai, "Channel Estimation of MIMO-OFDM in a Rayleigh Channel", Proceedings of the National Conference on Advances in Computational Intelligence and Communication Technologies at the IBS Institute of Technology for Women, Trivandrum, pp. 90-95, June 2013.
3. M. J. Jayashree and Prof (Dr.) A. Suresh Kumar, "Display of ECG Signal in Android Mobile Phone from Personal Computer after Compression and Decompression", European Journal of Scientific Research, Volume 93, No.2, pp.208-15, March 2013.
4. Sharon Roshan John, Nancy Prasilla, Juby Pullipra Mathew, Paul J. Oommen, Anoop K. Johnson, "Cross Spectral Face Recognition", Proceedings of the National Conference on Advances in Computational Intelligence and Communication Technologies at IBS Institute of Technology for women, Trivandrum, pp. 23-26, June 2013.
5. Niyas K. Hameeda, a) "Classification of Proteins based on a Similarity Matrix" in the Proceedings of International Conference on Recent Trends in Engineering and Technology", ICRTET 2013. b) "Application of LSA for Clustering Protein Sequences" in the International Journal of Engineering Trends and Technology, Volume 4 issue 5, 2013.
6. Teena Rajan, "C-band Chirp Spread Spectrum Signal Generation using DDS-PLL Technique" International Journal of Advanced Electrical and Electronics Engineering, Volume 1, Issue 3, 2012.

3. Seminar/Conferences attended by Faculty

1. "Two weeks Workshop on Analog Electronics", National Mission on Education through ICT (MHRD, Govt. of India), organized by IIT Khuragpur at MBCEI June 4 -

14, 2013. Staff attended: Ms Luxy Mathews, Ms Ancy S. Anselam, Ms Remya Elizabeth Mathew, Ms Teena Rajan, Ms Deepa P L, Mr Sajan Jose P C, Mr Anoop K. Johnson, Mr Arun P S, Mr Nandan S, Ms Ann Mary Alex, Ms Yamuna K. Moorthy, Ms Poorna R. Prabhu, Ms Jisu Elsa Jacob.

2. "One day Workshop on LABVIEW", organised by IEEE at MBCET on June 29, 2013. Staff attended: Mr Sajan Jose P.C, Mr Anil Kumar, Ms Remya Anne Eapen, Ms Poomina S, Ms Arathy C Haran, Ms Athira V

4. Achievements of Faculty Members

Best Research Paper Award

Research paper titled "Small Cell and Cell Zooming Approach for Cost Effective Green Cellular Networks" authored by Poornima.S, M. Meenakshi and S. Brindha and presented by Ms Poornima S. at the AICTE sponsored National Conference on "Green Technology Concepts for Bridging the Digital Divide using ICT (Green ICT 2013)" held on 5th & 6th July, 2013 at Pondicherry Engineering College won the Best Paper award for Green Techniques.



5. Achievements of Students

1. Smrithika S. Prem, S7 EC has been awarded the Certificate of Excellence for securing the Consolation place in "TechTop 2013 Open Innovation Contest for Public", held at Technopark, Tvm. on August 02 & 03, 2013.
2. Riya Joseph, S5 EC won second prize for English Short Story Writing in Kerala University Youth Festival.
3. Steffy James, S5 EC won third prize for Hindi Debate in Kerala University Youth Festival.
4. Ajith P. Joseph, S5 EC won second position (team) in Kerala University Table Tennis Competition and participated in Inter University Table Tennis Camp representing Kerala University.
5. Shruthi Geetha, S5 EC was a member of the college team which won third prize for Thiruvathira and second prize for Group dance in Kerala University Youth Festival, 2013.
6. Meenu Joseph and Shruthi Geetha, S5 EC, was a member of the college team which won second prize for Margamkali in Kerala University Youth Festival, 2013.
7. Gopika M. S., S5 EC won first prize for English Elocution and second Prize for English Debate in Kerala University Youth Festival, 2013.

8. Inji John Varghese, S3 EC won first prize for the project, "Electrical Safety System" under general category, in SPECTRUM 2013.

6. Extracurricular Activities

IEEE activities:

- Conducted "All Kerala Young Scientist Contest" during February 2013 for the first year students of all Engineering Colleges in Kerala. 85 students participated from 22 Engineering Colleges.
- Conducted "SHRIHEK" for the first year students of MBCET during March 2013. It is an IEEE 7 day orientation programme which includes both technical and group tasks.
- MBCET received the "DARREI, CHONG" International Award from IEEE for conducting KITEs 2012.
- KITEs 2013: Conducted by GEC Thrissur and organized by IEEE Student activities on July 6-7, 2013. Sixty students from MBCET attended and participated in various workshops in the areas like Robotics and Signal Processing.
- 110 students from MBCET attended Entrepreneurship Workshop ISHE 2013 at Amrita Vishwa Vidyapeetham, Amritapuri on July 28th. Students attended photography workshop, Robotics, Cloud Computing and Signal Processing Workshops.
- IEEE MBCET and IEEE Kerala Section jointly organized a 1-day workshop on "LABVIEW". Six staff members from EC Department attended. The class was conducted by Mr. Sooraj, Technical Head, National Instruments Inc.

7. Faculty Inclusion:

Prof. Sivaramakrishnan Narayanan has joined the Department of ECE on 24 June 2013 after 40 years of Research and Teaching experience at various organizations such as DRDO Bangalore, RV College of Engineering (RVCE), Bangalore and Temasek Engineering School, Singapore and the University Singapore Institute of Management (UNISIM), Singapore.

Electrical and Electronics Department

M.Tech. in Control Systems

The Department has initiated a post graduate course in "Control Systems" with an intake of 18 students. Classes for the first batch started on 19 August 2013.

A new lab has been setup for M.Tech. "Power Control and Drives" at a cost of Rs. 10 lakhs.

Faculty Inclusion

The following faculty members joined the Department during the current Semester

Ms. Shalu George K., M.E Control & Instrumentation, Karunya University Coimbatore, Ph.D (ongoing) at NIT, Calicut; Ms. A. N. Archana, M.Tech.-Power Electronics, Amrita School of Engineering, Coimbatore; Mr. Aswin R.B., M.Tech., Industrial Instrumentation & Control, T.K.M. College of Engineering, Kollart; Mr. Arun S. Mathew, M.Tech., Industrial Power & Automation, NIT, Calicut; Ms. Anu Gopinath, M.Tech., Control Systems, College of Engineering, Trivandrum; Ms. Arya Gowri G., M.Tech., Industrial Drives & Control, R.I.T, Kottayam.

Technical Staff: Mr. Sajan S. S., I.T.I., Electrical, Jayamatha, Trivandrum.

Seminars, Conferences and FDP attended by the faculty

Ms. Sandhya P., Ms. Soumya A.V. and Ms. Surasmi N.L., a Short term course on Power electronics, drives and control at the IIST, Valiamala, TVM, 2-5 July, 2013.

Ms. Surasmi N.L., Ms. Divya N.A., Ms. Manju Sreekumar, Ms. Manju Ann Mathews, Ms. Vandana P., Ms. Anamol George and Ms. Soji Rajan attended the STIP on "Power electronics & drives, Technology Advances Trends & Applications at the MBCET, TVM, 10-14 June 2013

Ms. Sheenu P. attended the NBA Accreditation-Procedures at the Kerala Science & Technology Museum and Priyadarshini Planetarium, Trivandrum, 12 Feb 2013.

Short Term Training Programme

A 5-Day Short Term Training Program on 'Power Electronics and Drives- Technology Advances, Trends and Applications' was organized by the Department of Electrical and Electronics Engineering with the approval of ISTE. The course focused on the latest trends and applications in Power Electronics and Drives and intensive training program in ANSYS Maxwell, a premier electromagnetic field simulation software. The Program was inaugurated on 10 June 2013 at 9.30 a.m. by our Assistant Bursar Rev. Fr. Raju Parukoor, in the presence of Dr. T. M. George, Principal, MBCET & other dignitaries.

PED-TATA13 was marked by widespread participation from various parts of the State. 37 participants from Tach Institute of Science and Technology, LBS ITW, Poojapura, Saintgits College of Engineering, Sree Buddha College of Engineering, Younus Institute of Technology, Rajagiri School of Engineering and Technology, and Amrita School of Engineering.

Dr. Thomas Kurien, Dr. M. R. Baiju, Dr. S Albert, Dr. Rajil Raniachand and Dr. Dinesh Gopinath were the resource persons for the programme.



Scale stand alone green power generation and smart home-smart grid possibilities. It is scheduled to be held in December 2014.

Ms. Sandhya P. has taken charge as AHOD from August 01, 2013.

Prof M. K. Girdharan delivered invited talks at Govt. Engineering College, Barton Hill, Trivandrum on "Electrical System Design" on 21 and 22 June 2013.

ILLUMINA - (Technical Association of Electrical Engineering Students)

The Association conducted AutoCAD electrical training with Autodesk Certification for final year electrical students, which included

- Software training using AutoCAD Electrical 2013 software and Autodesk Course Completion Certificate.

Course duration: AutoCAD 2D Essentials- 20 hrs. AutoCAD Electrical - 40 hrs. 18 students participated. The course was conducted between 1 March 2013 and 25 June 2013.

Results, Placement & Higher Studies

A pass percentage of 80% was achieved by the 8th Semester Students. 11 students were placed under campus recruitment in reputed firms. 8 students got admitted to various reputed Institutions for their Master's programme.

Information Technology Dept.

Important events / Achievements of the staff

Workshop

- Mr. Biju B Varghese co-ordinated a Two Weeks ISTE Workshop on "Database Management Systems"

conducted by IIT Bombay as part of the Ekalavya eOutreach Programme from 21st to 31st May, 2013.

- Ms. Elizabeth B. Varghese, Ms. Asha S. Ms. Devi Priya V S, Ms. Poorna B. R., Ms. Ashwini B. and Mr. Shon J. Das attended the above programme.

Research Papers / Publications

- Ms. Divya R S presented a Technical Paper on "Distributed Parallel Data Intensive Computing for Scientific Applications" at the National Conference on 'Emerging Trends in Computing' (NCETIC) organized by Govt. Engineering College, Thrissur in June 2013.

Students' Achievements

- Arathy Krishnan, student of S7 IT bagged the first position in the University of Kerala, in Fifth Semester B.Tech. Degree Examination, December 2012.
- S8 IT students (2009-2013), Ashika M. P., Krishna S. Panellil, Deepthi S., Samuel Joshua Peters (guided by Mr. Biju B. Varghese) participated and bagged First prize for the project titled "Fall Monitoring and Response" in the Technical Fest held at the Amal Jyothi College of Engineering organized by Magnifica Hybrid Committee of AOST and ISEEC, London, UK on 6 April, 2013.

Mechanical Engineering Department

S8 students make the Department proud!

S8 Mechanical Engineering for the first time in the history of the Department and the College secured the FIRST position in Kerala University with an overall pass percentage of 100% in the University Examination, March 2013.

Hearty Congratulations!

Dr. K. J. Sreekanth, Associate Professor in ME, received Doctorate Degree from the National Institute of Technology, Calicut for his work on "Micro Level Energy Planning Studies For Clean Development Mechanism (CDM) Implementation in Kerala State" under the guidance of Dr. S. Jayaraj.



Achievements

Mr. Rakesh N., Asst. Professor, MBT has joined Indian Institute of Science, Bangalore as a full-time Research Scholar towards Doctorate Degree in ME. Mr. Jishnu Chandran, Asst. Professor and Alumni of MBT have joined Indian Institute of Space

Technology - Trivandrum as a full-time Research Scholar to obtain a Doctorate Degree in the stream - "Two phase flow".

Faculty Development Programme

Mr. Rajesh Kumar S. and Mr. Deepak G. Dilip attended a Faculty Development Programme in MANAGEMENT RESEARCH METHODOLOGY organized by AICTE-MHRD at the National Institute of Technology, Calicut from June 10 to 15, 2013.

Commencement of 2nd Batch PG course

The second batch of M.Tech. Degree programme on Machine Design commenced on August 19, 2013.

New Faculty Members

The following teachers joined the Department: 1. Sreejith N. K., M.Tech - Computer Integrated Manufacturing, PSG College of Technology - Coimbatore. 2. Sreejith S., M.Tech - Energy Engineering & Management, National Institute of Technology, Calicut. 3. Johnson T. Mathew, M.Tech. - Production Engineering, University College of Engineering, Davangere. 4. Vinod V., M.Tech - Thermal Engineering, College of Engineering - Trivandrum. 5. Kedar Mohan, M.Tech. - Production Engineering, IIT - Delhi.

Research Papers/Publications

Sreekanth. K. J., N. Sudarsan, S. Jayaraj, "Economic Impact of CDM Implementation through Alternate Energy Resource substitution"- International Journal of Renewable Energy Development. 2 (1)-2013, pp- 13-18.

Johnson T. Mathew, "Dim and Bright Automation System" in Govt Engg College, Calicut at National Emerging Trends (NET 2011).

Sreejith S., "Experimental Study on the properties of Biociesel produced from Indigenous Algae as Diesel Engine fuel" at International Conference on Alternative Fuels for I. C. Engines (ICAFICE) at MNIT Jaipur, Feb 6-8, 2013

Anoop Chandran, Nidhi M. B., and V Madhusudanan Pillai, (2013), Modelling of Closed-loop Supply Chain under the Emission Trading Scheme, AIMS, 6-9th Jan 2013.

Sreekanth. K. J., N. Sudarsan, S. Jayaraj, "Certified Emission Reduction (CER) Opportunities in Rural Domestic Energy Sector"- International Journal of Economics Finance and Management, Vol.2, No.1, 2013, pp-70-76.

Rajesh Kumar. S, Jerin George Abraham, Vinodh Mathew, Jith John Francis, Mathews Gommen, Nitin P. Mathew "Genetic Algorithm for Solving the Un Capacitated Facility Location Problem" International Journal of Engineering

Research & Technology (IJERT) Vol. 2 Issue 3, March 2013, ISSN: 2278-0181.

Jacob, J., Rajesh Kumar S. "Design And Fabrication of Coconut Dehusking Machine" IEEE CONFERENCE PUBLICATIONS, International Conference on Green Technologies (ICGT), 2012, Page 155 – 159.

Patent Granted

Johnson T. Mathew, "Dim and Bright Automation System", Patent number - 2479/CHE/2009.

The 'Dim and Bright Automation System' conceived and developed by Johnson T. Mathew and team, deals with the process of dimming the bright lights of a vehicle while driving. Presently the driver has to manually change from bright to dim and vice versa when needed but most drivers fail to do so. But, a 'Dim and Bright Automation System' if fitted in the vehicle would definitely regulate the brightness of the light when driving.

Intellectual Property India has granted Johnson T. Mathew and team the Patent in December 2012.



Invited Talks

Ms. Nidhi M. B., Asst. Prof. delivered talks on :

- M Learning and M Governance, one week program on "Office Automation and Computer Applications" at College of Engineering, Trivandrum on 6th Feb 2013.
- Introduction to Green Supply Chain Management, 8 May 2013, IEL, Trivandrum.

An Interactive Session for M.Tech. Students of Mechanical Dept with Dr. B. Anil, Principal, GEC, Wayanad on 28 June 2013 on Finite Element Analysis, was co-ordinated by Prof. Y.V.K.S. Rao, PG Professor, ME Dept., MBCET



Science and Humanities Department

I. Research Activities:

Ms. Archana P. Das has registered for the part time Ph. D Degree Programme under the guidance of Dr. Annette Fernandez ,

Associate Professor, College of Engineering, Trivandrum on 'Natural Products and Coordination Compounds'.

II. Seminars/Workshops Participated / Papers Presented:

Ms. Binimol Mary Mathew participated in the one week workshop on 'Computational Chemistry' at Ramanujan Institute of Basic Sciences, IITMK, Technopark, Trivandrum from 31st May to 3rd June , 2013.

Ms. Lekshmi I. participated in the three days International Conference on Modeling in Computer Management & Medical Sciences, organized by Department of Computer Applications, MACFAST, Thiruvalla from 13th June to 15th June, 2013.

Ms. Savitri M. T. and Ms. Lekshmi I. participated in the three days National Seminar on Emerging Trends in Applied Mathematics at Mar Ivanios College, Thiruvananthapuram from 5to7 September, 2013.

Ms. Rajalekshmi I. S participated in the following events: 1. Two day workshop on Program Techniques' (LATEX & PYTHON) organized by Department of Mathematics, University College, Thiruvananthapuram during February 07-08, 2013. (2) One week short term course in Application of Linear Algebra' at LBS Institute for Women, Poojappura during 11 to 15 March, 2013. (3) One day National Seminar on Algebra' at Department of Mathematics, University of Kerala, Kariavattom on 26 March, 2013. (4) One week Instructional Workshop on LATEX' at Department of Mathematics, University of Kerala, Kariavattom during 16 to 20 April, 2013. (5) One day National Seminar on Analysis & Discrete Mathematics' on 29 April, 2013.

III. Faculty Inclusion:

The following members joined the Department recently;

Ms. Jisha J. J., M.Sc., B. Ed; Ms. Uma M., M.Sc., B. Ed, M.Phil., Ms. Divya M. R., M.Sc., M. Tech. and Ms. Archana P. Das, M.Sc., M.Phil.

Sports and Games

MBCET Team bagged the DON BOSCO championship title, winning against the all time legends, Kerala Police and KSEB Teams, a first time achievement of a Professional College



Team in the history of Kerala Basketball.

Aroop F. R., SS, ME has to his credit the following achievements:



a. 6th Position in the All Kerala Cross Country Championship organized by the Trivandrum District Sports Council.

b. Silver Medalist in the 5000 mts., organized by the Trivandrum District Sports Council.

Staff Sports



Civil Service Examination Orientation Programme Inaugurated

Towards quality improvement and to provide students opportunity for Career Orientation a Civil Service Examination Orientation Programme has been inaugurated. Entry to the Programme is based on an Aptitude Test.

N. S. S. Unit

The NSS Unit launched the "One Rupee per Week Campaign" in the campus. The money collected thus is donated to the poor cancer patients. The success of this venture prompted the volunteers to launch another programme "One Cloth per Month", to help the needy. Fr. Davis Chiramel inaugurated the "Organ Donation Awareness Camp" in April 2013 at the College. In order to promote Agriculture and create awareness about the same among students, seeds of vegetables were

distributed. The NSS unit adopted the "Sneha Veedu", in order to promote the spirit of service among the students. The first annual camp of the MBCET NSS Unit was held at St. John's Medical Village, Pirappancode, Trivandrum from 17 to 23 Sept. 2013. Rev. Fr. Wilson Thattarathundil, Bursar, MBCET, inaugurated the camp in which 51 NSS Volunteers of this College actively participated. Rev. Fr. Jose Kizhakkedathu, Director, St. John's Medical Village presided over the function.

His Beatitude Moran Mor Baselios Cardinal Cleemis Catholicos, Major Archbishop of Trivandrum, Shri. Manoj G., Dr. Mohandas, Mr. Brahmanayukam Mahadevan and Mr. Roy as Resource Persons enlightened the participants of the camp on various topics. Shri. Palode Ravi, MLA, Rev. Fr. Raju Parukoor, Asst. Bursar, Mr. K. M. Raju, Dean, MBCET, Mr. Remil George Thomas, NSS Programme Officer, Mr. Jinu Baby, Mr. Sajjan Jose, Mr. Alosious, Mr. Binu Jose attended the various sessions of the camp.

NSS Day was celebrated on Sept. 24, 2013. Rev. Fr. Wilson Thattarathundil gave the message and Dr. T. M. George, Principal hoisted the NSS Flag. Students took the pledge of National Integration and Religious Harmony.



Programmes for Spiritual Orientation

Meet the Cardinals

The Jesus Youth wing of MBCET accorded a grand welcome to the New Cardinals, Cardinal Luis Antonio Tagle, Archbishop of Manila and Moran Mor Baselios Cardinal Cleemis Catholicos, Major Archbishop of the Malankara Catholic Church on 15 July 2013, at the College. Rev. Fr. Wilson Thattarathundil, Bursar, Rev. Fr. Raju Parukoor, Asst. Bursar and Dr. T. M. George, Principal, were present on the occasion.

Cardinal Tagle spoke to a gathering of 200 delegates of Jesus Youth on "Formation of the Youth".



Lumen 13

Under the auspices of the Jesus Youth, Night Vigil was conducted on 27, 28 Aug. 2013. 'Lumen 13', the Annual Retreat was held on 30, 31 Aug. and 1 Sept. 2013. The retreat was led by Fr. Daniel Poovannattail. Fr. Shoji, Toni and Dr. Helen handled different sessions during the Retreat.



The Art of Living Happiness Program

The Art of Living Happiness Programme, a personality development programme, was conducted for the M.Tech. students of MBCET from 3 to 5 September 2013 by Dr. Sakuntala S. Pillai, Dean (R&D).

Onam Celebrations

The Onam Celebrations were held on 12 Sept. 13. Various competitions were held for the students under the auspices of the Senatus, in the Forenoon. In the afternoon, the staff club

organized various cultural programmes for the members of the Faculty after the traditional 'Onasadya'.



We lost us early for Eternal Rest

BINOJ A. S.

S3, M.Tech., Power Control & Drives
(Electrical Dept.)



B.Tech. Results 2013

MBCET has retained the 3rd position among the colleges affiliated to the Uty of Kerala, in the Jty Exam Results 2013.

Forthcoming Events

International Conference on Mobility in Computing (ICMIC-13), joining organized by MBCET, Bowie State University, USA. Date : 17 & 18 December 2013.

IEEE International Conference on Advances in Green Energy (ICAGE'14)

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



**MAR BASELIOS COLLEGE OF
ENGINEERING & TECHNOLOGY**

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

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