



# Echoes

News Letter of BMCE 2018

Private Circulation Only



**Baselios Mathews II  
College of Engineering**

An ISO 9001:2015 Certified Institution  
(Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University)



## About Us

The noble commitment to serve humanity through the elixir of technical education has led us to establish this institute of excellence. We believe we can impregnate students the zeal and vigor that we ourselves are endowed with. We strive to meet the standards of technical excellence and creativity and to provide the opportunities in this global village.

Baselios Mathews II College of Engineering (BMCE) is named after its founder, the late H H Moran Mar Baselios Marthoma Mathews II, the sixth Catholicos of the East and the Malankara Metropolitan of Malankara Orthodox Church. He was also the Founder Chairman of the institution. This renowned college is managed by Dr. C.T.Eapen Trust under Malankara Orthodox Syrian Church. The institution started functioning in 2002 with the monumental objective of promoting academic excellence and competence in students, especially in the fast-growing global domain of Engineering and Technology. Located in the picturesquely beautiful Muthupilakadu in Sasthamcotta in Kollam district of Kerala, the college stands out for its magnificent buildings and ultra-modern Infrastructure; a fascinating blend of architectural excellence and functional values. Affiliated to the University of Kerala & KTU. This self-financed institute currently provides six AICTE approved UG courses & PG Course

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It is indeed a great honour to be the Chief Editor for the BMCE Echoes and it is an immense pleasure to launch this first edition. In this issue, we will recount the various programmes and activities organized by the college in the last academic year. It also reflects the facilities in various departments and natural scene in and around the campus. I hope you this newsletter will be more informative and useful for all young aspirants.

**Dr. L. Padma Suresh, Ph.D (EE), Ph.D (CS)**  
(Principal & Chief Editor Echoes)





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Institution has undergone ISO 9001-2015 certification audit from the Ministry of Electronics and Information Technology, Government of India. As per the 9001: 2015 Standardization, a complete Quality Manual and Quality procedure were prepared, documented and practically implemented the whole system as per the standards. In this process a Team of three members headed by Mr. P. JayamohanRao, Additional Director, Standardization Testing and Quality Certification(STQC), Hyderabad visited our institution on 26th and 27th September 2017 for the Audit Procedures. The team verified the Quality manual, the Quality Procedures and the supporting documents during the Audit schedule. The Audit held for 6 man days by 3 external auditors.

The committee unanimously recommended for certification in the closing meeting. The STQC certification services under the Ministry of Electronics and Information Technology, releases the certificate of registration with the Register Number of SQ/ISO 9001/267

The Scope of this certificate of registration covers:

Scope of QMS covers Admission, Instructional Delivery, Examinations, Award of Degree as per the Curriculum and syllabus given by APJ Abdul Kalam University and guidelines of AICTE and also Co-curricular activities, Administration and other supporting services for B.Tech. in Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, Civil, Applied Electronics and Instrumentation Engineering and M.Tech. in Computer Science Engineering programmes.

Scope also includes Startup and Entrepreneurship Activities.

Exclusion: Clause 8.3 Design and Development of Products and Services



## DEPARTMENT OF CIVIL ENGINEERING

Civil Engineering buttresses all the characteristics of contemporary existence. Civil Engineers are contributing in all the fragments of infrastructural development of the society. These professionals must simultaneously be inquisitive, detail-oriented, and interested in the big picture. In their designs, Civil Engineers must consider potential environmental hazards, construction costs, and government regulations that can affect their creations. Our educational programme reflects this amply. Civil Engineering encompasses the full spectrum from structures through geomatics and earthquakes to transport while continuing to provide a sound understanding of basic Civil Engineering principles.

The Baselios Mathews II College of Engineering(BMCE) civil engineering department laboratories flourished with latest equipments and machineries to afford the students with practical knowledge. The department has been organizing various seminars, workshops, symposia and conferences in areas of emerging technology to update the acquaintance to prepare the students to acquire the newest technology.

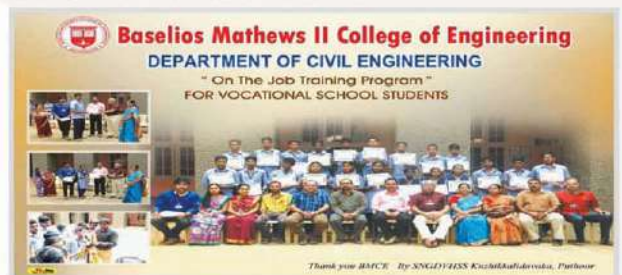
## DEPARTMENT ACTIVITIES

1. The Department of Civil Engineering selected and Approved as Technical consultancy for the construction low cost residential building projects under Pradhan Mantri Awas Yojana Gramin (PMAY-G) housing projects. Our Ongoing projects are in the jurisdiction of Sasthamcotta Block Panjayathu, Ochira Block Panjaythu and Chavara Block panjayathu.

2. Inauguration of PMAY Technical consultancy for the year of 2017-2018 was on 20th March 2017. The inauguration done by Sri. Kooror Kunjumon MLA. As part of the PMAY Programme, there was a Technical talk on 'Green Protocol and Waste Management ' by Sri Krishna Kumar, District Coordinator suchitwa Mission, Govt of Kerala.



3. The Department of Civil Engineering Conducted "On the Job Training Programme" for Vocational school students under the Technical education scheme Government of Kerala.



4. The Department of Civil Engineering Organized National Workshop on Recent Trends in Civil Engineering under the support of Kerala Swichitha Mission Department.

5. The Department of Civil Engineering was conduct one day seminar on 26-11-2017 on the topic of Vasthu Based Building Construction.

6. The Department of Civil Engineering organized expert Talks for KTU students on the topic of Health and safety in construction Projects and Green Building construction.

7. Many of our faculty members are achieved 100% result in the Kerala university examination held on October 2016.

8. Our faculty members published Three Text Books Titled as "Basics of Civil Engineering ,Design and Engineering , Construction Management" based on the syllabus of Kerala technological university and Kerala university (2013 scheme)

9. Organized one day workshop (13-04-2018)on civil engineering aspects in infrastructure development. Workshop handled by AbleMon Assistant Executive Engineer PWD

10. Organized one day workshop on 13-04-2018 Creative Trends in Interior Design by Cindreby school of Design Trivandrum.





## DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering is one of the oldest and most prestigious courses in the engineering domain. Although mechanical engineers are commonly misinterpreted as automotive engineers, the fact is, mechanical engineers are employed in an enormous range of technical areas including: acoustics, air-conditioning, automatic controls, computer-aided design, energy management, fluid dynamics, robotics, and biomechanics, just to name a few. ME Dept is the newest member of the BMCE family and since its inception 5 years ago, have been the forerunner of the technical and cultural activities of the college. What makes the ME Dept so distinguishable is the dynamic combination of dedicated faculty and enthusiastic students who are in a non-relenting pursuit for excellence. The academic and non-academic achievements of the students thus far have been nothing short of remarkable. The Department has state-of-the-art infrastructure and facilities for meeting all requirements in the curriculum. Well-equipped laboratories and Workshops with a sophisticated range of machines including CNCs are the highlights of the department.

## DEPARTMENT ACTIVITIES

In 2014 Mechanical department association group MEXVENTE had conducted TECHFEST (auto expo)

In 2015 Mechanical department conducted SEMINAR organized by ASME and TECHFEST organized by MEXVENTE

In 2016 Mechanical department conducted SEMINAR in subject of "Engineering after life"

In 2018 Mechanical department conducted WORK SHOP related to RC aircraft designing and TECHFEST (auto expo) organized by MEXVENTE 3.0

### MEXVENTE

"In this era of extreme automobile performance, a humble but futuristic effort from the team MEQNZO which showcased the evolution of automobile engineering, from vintage cars to the beast that rule the roads today." MEQNZO conducted a state-level exhibition of Automobiles MeXride'16 in association with "PRATIYOGITHA'16". The event featured multiple vehicles from the vintage collection as well as the most modern luxurious vehicles.

Our website: [www.meqnzbmce.org](http://www.meqnzbmce.org)

### AEROTRIX-RC AIRCRAFT DESIGN & FABRICATION WORKSHOP

BMCE-ASME student branch conducted a RC AIRCRAFT DESIGN FABRICATION AND FLYING WORKSHOP in association with Aerotrix that was held on 15-17 October 2017 at Basileos Mathews II College of Engineering, Sasthamcotta. This workshop aimed to enrich the student's knowledge on the theory behind aerodynamic modeling of aircrafts and functioning of different parts through lectures and interactive group activities. The workshop gave a detailed idea about RC aircrafts. There were almost 20 teams to attend the workshop.

## ACHIEVEMENTS

### 1. KTU Results

The department is at 45th position among 146 Colleges in Kerala

### 2. Career guidance and placement.

20 % students from Mech. Dpt. were placed in various reputed industries in this year through Career Guidance and Placement unit, BMCE

### 3. ASME Student Professional Development Conference

Student Professional Development Conference is the annual congress held at each country where members of various student sections come together to expand their NETWORK beyond the campus, meet practicing engineers, develop and practice skills required in the engineering workplace, showcase their design projects, enhance their soft skills, GET IDEAS for future projects. Students from our student section have been attending SPDCs regularly since 2012.





## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The department of Computer Science and Engineering was started at BMCE in 2002. The department provides state of the art computing amenities and encourages active industry-institute partnership by identifying key areas of interest. The PG Programme, MTech in Computer Science was started in the year 2013.

Our department has been providing excellent training in academics and industry related courses. Throughout the years our students have bagged excellent results in university exams which includes rank. In 2015 our PG students scored first and fourth rank in university exams followed by fourth rank in 2016. Our department is in second position in the third semester and fifth semester KTU Exams conducted in 2018, among the colleges in Kollam, Pathanamthitta and Alappuzha district.

Projects of the final semester are guided internally by the staff. Students are given training in PHP, MySQL and MatLab.

From this semester, along with the normal academic for M.Tech, department is conducting training on

1. GATE and UGC/NET Entrance Examination
2. CCNA by our faculty members

## RESEARCH & PUBLICATIONS

All the projects of M.Tech Computer Science are research oriented and implemented in the area of Image Processing and Data Mining. So far we have 54 International publications in Department and out of them 13 are published in IEEE Explore. Within three years we are aiming for patented products as part of the M.Tech final year project.

In the present academic year(2017-18), BTECH final year and MTECH first year and second year students have published 10 Technical Papers in IEEE Explore and 4 papers in Springer.

For updating technical knowledge and to be aware of the latest trends in industry, our faculties are constantly participating in Technical Workshops and Industrial Training. All the faculty members have 2 or more research publications to their credit. We have conducted a two day workshop in Image Processing in February 2018.

Two of our faculty members in the department have completed PhD in Computer Science & Engineering in March,2017. At Present our Department have 4 faculty members with PhD in Computer Science and Engineering. Two of them are in the post of Professor and two in the post of Associate Professor. NBA Accreditation

In this semester we have started NBA accreditation process and the work has started.





## DEPARTMENT OF PHYSICAL EDUCATION

Our students took part in the North Zone intercollegiate tournament and APJAKTU B zone tournaments.

Basketball, Football, Volleyball, Badminton, and chess men team and Badminton, Chess women team participated in the APJAKTU B zone (Kollam and Pathanamthitta) Intercollegiate championship.

All teams showcased high level of sportsman spirit and excelled in their performance. Football team entered in the semifinals of B zone intercollegiate Football championship held at TKMCE, KOLLAM. Volleyball team qualified for the finals and became the runners up of B zone intercollegiate Volleyball tournament held at BMCE, Sasthamcotta. Rehya K Rajan of S5 civil awarded the third position in B Zone chess championship held at TKMCE, KOLLAM.

### List of Achievements in intercollegiate tournament for the year 2016 - 17

1.Volleyball	St.Thomas, Chengannur	Winners
2.Volleyball	BMCE, Sasthamcotta	Runners
3. Volleyball	IHRD, Adoor	Runners
4.Chess	APJKTU B Zone	II Rank

### List of Achievements in intercollegiate tournaments for the year 2017 - 18

1.Volleyball	APJAKTU-B zone	Runners
2.Volleyball	St.Thomas, Chengannur	Runners
3.Chess	APJKTU B zone	III Rank

- Rehya K Rajan of S4 CE awarded II Rank in the APJAKTU B-Zone chess tournament during the year 2016-17
- Rehya K Rajan of S6 CE awarded III rank in the APJAKTU B zone chess tournament in the year 2017-2018



## CAREER GUIDANCE & PLACEMENT UNIT (CGPU)

CGPU-BMCE campus provides aptitude training, training in different skill domains and necessary support for placements. Various in house workshops were conducted for Skill training. Online recruitment was conducted by Study Springs Private Ltd during January 2018

Employability Center in association with the Employment Exchange, Govt of Kerala conducted a job fair in the BMC campus during January 2018. Around 2000 applicants attended the job fair. Companies from various segments like education, banking, IT and from other core technical areas were the recruiters. The companies includes Petrocil Engineers & Consultants LTD, Preethi Kitchen Appliances, Corporate 360 Marketing Solutions LTD, DHFL, Axpera Associates, Tech Store Solutions Private Limited, SBI Cards, Muthoot Micro Finance, Manappuram Finance LTD, Malabar Group, Cyberia Softwares pvt LTD, HDFC Bank, SBI Knowledge Service LTD, ICICI Bank, Jai Properties&Builders, HDB Financial Services LTD, Build-Tech Builders, Shriram Transport Finance Company, Western India Cashew Company Pvt LTD, All Seasons Back water Resort, Muthoot Fincorp Limited, Karvy Stock Brocking, Geojit PNB Paribas LTD, Inspironz IT Solutions, Mass Tech Solutions, Green Water Science, Pinnacle Nissan, Precise Eye Care, Muthoot Medical Center, Atlas Diagnostic and Imaging Center, SS Services, ST.Gregorios Central School, Navodaya Institute, Angel Green Institute, Ponnus Food Products, Pothen's Group, Sarathy Group, Accord Aqua, Nippon Toyota, L&T Confections, Expert Goods&Services, KMK Traders and Bemax Academy.

Online recruitment was conducted by Spectrum IT Park, Cochin during the month of Feb 2018. Malayala Manorama in association with Proctor & Gamble (P & G) conducted a campus recruitment drive for all the final year B-Tech & M-Tech students at BMC campus during March 2018.

An Interview process was conducted by Axis Bank for the post of Business Development Executives during the month of April 2018.





## DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Electronics and Communication Engineering at BMCE has a long standing tradition of excellence. The course provides a sound foundation for people wishing to pursue a career in communications, internet technologies, automation robotics or sensor systems, through a diverse range of theoretical skills and practical experience, presented in the context of real applications and design experience. Electronic systems have made deep inroads into every aspect of daily life. With high opportunities available in this sector, this has been one of the most consistent and widely respected sectors.

The department was given sufficient resources by the management in terms of excellent workforce, committed and well qualified teaching professionals, well stocked department library with International and National Journals, Laboratories, accessories, class rooms, seminar hall, etc. and it started offering the course, from 2002. The professional and passionate guidance provided to each tutee by our strong mentoring system, helps them in their ride towards academic accomplishment.

ECE department association "CRESCENDO" inaugurated by Padmavibhushan Dr.G Madhavan Nair (Former ISRO chairman Secretary to Dept of space,Govt of India)is a platform for the students to extend the boundaries of their technical knowledge beyond the prescribed curriculum

## DEPARTMENT ACTIVITIES

- All students of (2015-19) batch and (2016-20) batch have undergone internship in various industrial units like Keltron,KEL,etc. This will help to expose the students to the industrial atmosphere which will enable them to get placements after graduation.
- An expert talk was conducted by Padmavibhushan Dr.G Madhavan Nair (Former ISRO chairman Secretary to Dept of space,Govt of India).
- A technical session about 3G & 4G wireless technology was elucidated by Mr.Anil Kumar, Regional Manager BSNL.
- A webinar on RTL design and functional verification by MAVEN SILICON was conducted

- BMCE has conducted a technical exhibition titled PRATIYOGITAA last year, around 2000 Students from nearby schools have participated in the event. Department of Electronics & Communication Engineering have conducted technical competition and exhibition of ISRO ,bsnl etc. Displays of projects done by our students were exhibited.

- ISTE & IE(I) students' chapters were started and all of our students have registered.

Achievements

- One of the final year projects of the passed out batch was selected by startup mission, Kerala and funds were sanctioned to enhance the product functionally and commercially.

- Last year,final year students have published paper in IEEE international conference.

- One start up company was registered by our passed out batch.

- It is proud to announce that we have scored very good academic results when second year result was published. We are positioned 9th among all engineering colleges in Kerala and 3rd among self financing colleges in Kerala.

An electronics engineering graduate has opportunities in Central Government, State Governments and their sponsored corporations in public enterprises and organizations like All India Radio, Indian Telephone Industries, MTNL, National Physical Laboratories, AIR, Civil Aviation Department; Post and Telegraph Department; Co-ordination Department, National Physical Laboratory, Bharat Electronics Limited, Development Centers in various States etc. Electronics engineers are also absorbed into the entertainment transmission industry, research establishments, defense, Consumer electronics manufacturing organisation, Telecommunication industry, IT industries, Health care equipment manufacturing industry, Mobile communication, Power Electronics, and Other industries like steel, petroleum and chemical industry, directing control and testing production process.





## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering has grown as a full fledged department since its inception in the year 2006. Laboratory equipments ranging from various high voltage instruments, to systems for process control studies cater not only to the requirements of an undergraduate programme in Electrical and Electronics Engineering but also of Post graduate programmes and research field. A strong and expert faculty specialized in various disciplines is indeed an asset to the department.

### DEPARTMENT ACTIVITIES

Department maintains a library along with a main library, a departmental workshop and an ergonomically designed committee room equipped with audio visual presentation facility and internet connectivity. Department has well equipped laboratories with extensive hardware and software facility for teaching and research in the areas of Basic Electrical Engineering, Measurement, Microprocessor Development systems, Control and System Engineering, Electrical Machines and Drives, Power System and Protection, Power Electronics, Electrical Machines and Energy Instrumentation. The Department has facility to undertake Electrical consultancy in various Electrical Engineering and related fields

### ACHIEVEMENTS

The sixth semester result of present 8th semester students bagged 9th position out of 33 colleges under kerala university

#### Events

To impact value added training, various activities were conducted in the department this year. Electrical Engineering Association named as "Vidyuth" organized a workshop on "smart grid and solar power and many students especially PG students from other Engineering Colleges and faculty of BMCE were greatly benefitted by the programme. Various industrial training programme were arranged with internship programme for 4th semester students and industrial training for 5th semester students with a view to give

exposure to practical aspects of Electrical Engineering practice. A workshop was organized by BMCE and power and Energy Society of IEEE, Kerala chapter on "Computer based design of Electrical Engineering systems". With an interaction of expert from industry the workshop provided an introductory level training in starting consultancy work of the profession. With all the above facilities and other activities, it is needless to say, the department is now getting set to face the challenges of coming days.

A workshop was organized by BMCE and power and Energy Society of IEEE, Kerala chapter on "Computer based design of Electrical Engineering systems".





## DEPARTMENT OF APPLIED ELECTRONICS AND INSTRUMENTATION

The department of Applied Electronics and Instrumentation started in the year 2002 with an under graduate program "Applied Electronics and Instrumentation Engineering". The program aims at the development and implementation of industrial instruments for the purpose of measuring, monitoring, recording and controlling. Emphasis is laid on fundamentals and concepts with a view of analysis and design for various applications. The teachers who are well qualified in their respective fields strive hard in order to achieve the same. This is the most sought out department for opportunities across the globe.

## DEPARTMENT ACTIVITIES

The Applied Electronics and Instrumentation department's association named 'INSTRA' conducts seminars, short term training programs, workshops and conferences periodically. The workshops conducted in the current year were:

- 5days workshop on "DCS Fundamentals and Engineering with PLC Concepts" by YOKOGAWA INDIA LTD
- 5days workshop on "PLC Programming and its applications in Industrial Automation" by WALCO SOLUTIONS
- Certified Training on labVIEW software
- The department association 'INSTRA' conducts seminars, short term training programs, workshops and conferences periodically.
- The association organizes an inter college ROBOWAR competition at the Technical fest – AURA , it was witnessed by participants from various Engineering Colleges in Kerala. The highlights of the Tech events were: Robowar, Roborace, 3D show, Games zone, Drone show, Magic show, Technical Exhibits from KMML- Chavara, MTMM Hospital, ISET etc.
- Knowledge and skills of staffs are regularly updated through well planned and executed FDP's in areas such as PLC, SCADA, labVIEW etc.

## IIPCINSTRA

As a step towards bridging the gap between industry and institution the department has initiated the formation of IIPC (Industry Institute Partnering Cell) . To facilitate industrial exposure to the students, the IIPC organizes Invited Talks and Seminars. Eminent personalities working in Instrumentation related fields are invited to address students. The students get an opportunity to interact with technocrats having vast knowledge in both industrial and academic fields.

## IIST Students Chapter

The Department of Applied Electronics and Instrumentation Engineering has started a student chapter IIST(Indian Society for Technical Education)with 70 student members.The main objective of ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organization.





## INTERNATIONAL CONFERENCES

BMCE has organized two international conferences on 2016 and 2017. Every drop of sweat of the students and faculty members and zero percent unattended areas with every nook and corner meticulously being chased by eyes of the organizing team was the key recipe for this scrumptious delight and its fruition. Conferences were the charismatic and overwhelming presence of the highbrowed, cerebral and erudite dignitaries in the venue and their profound words and thoughts to the audience would be beyond words to describe.

### ICETT'16

The International conference on Emerging Technology Trends, sponsored by IEEE solid state circuits chapter, was conducted on 21st of October, 2016. The meeting started with the lighting of lamp by Manager of BMCE, H G Zachariah Mar Anthonios Metropolitan. Dr.L.Padma Suresh, Principal BMCE & Conference chair, welcomed the gathering. Dr.M.Madheswaran, Chairman, IEEE India Council Chapter gave the chief guest address followed by special addresses by Dr.Sisil Kumaravadu, Professor, and Dr Nattachote Rughthaicharoencheep, The conference CD was released by Administrator of BMCE Rev.Fr.Thomas Varghese. After the inaugural ceremony, Dr.Debabrata Sharma and Dr.Nattachote Rughthaicharoencheep delivered the keynote addresses on Analysis and Classification of Synthetic Radar Images and Distribution system planning and operation with distributed systems respectively. Around 400 papers were received and 144 papers were presented. The best paper awards were presented in respective technical sessions.



### ICCPCT '17

IEEE International conference on Circuit, Power and Computing Technologies was conducted on 20th and 21st of April 2017. HG Zachariah Mar Anthonios Metropolitan, Manager of BMCE lighted the traditional lamp. Dr.L.Padma Suresh, Principal BMCE & Conference chair, welcomed the gathering. Sri.Arul Jerald Prakash, Director, Priyadarshini Planetarium, TVM was the chief guest. Dr. Swagatam Das, Indian Statistical Institute, Kolkata, Dr.Ishak Arris, University Putra Malaysia, Dr.Chandana Pereira, University of Ruhuna, Sri Lanka, Prof Kim Kyung-tae, Hannam University South Korea delivered the special addresses. The conference CD was released by Administrator of BMCE, Rev Fr Thomas Varghese. After the inaugural ceremony, Dr.Ishak Arris and Prof Kim Kyung-tae delivered keynote addresses on Intelligent Energy efficient vehicle for sustainable mobility and 4 questions in digital image processing respectively. 569 papers were received and 241 papers were presented. The best paper awards were presented in respective technical sessions.



### ICSCS '18

Springer International conference on "International Conference on Soft Computing Systems" conducted on 19th April 2018. HG Zachariah Mar Anthonios Metropolitan, Manager of BMCE lighted the traditional lamp. Dr.L.Padma Suresh, Principal BMCE & Conference chair, welcomed the gathering. Presidential Address was given by Dr. F. V. Albin, Director, BMCE. Prof. Ganapati Panda (Professor, Indian Institute of Technology Bhubaneswar) was the chief guest. Special keynote Address was given by Dr. Swagatam Das (Professor, Electronics and Communication Sciences Unit Indian Statistical Institute, Kolkata) & Dr. Mirtha Nelly Aldave (West Hartford, Connecticut, USA). Releasing the Conference CD was done by Prof. Ganapati Panda. 138 papers were selected for presentation and they will be published in international journal of engineering technology and communication in computer and information science.





## COMMUNITY SERVICE

Since 2002, BMCE has maintained a steadfast commitment to advancing society through meaningful individual and collective participation in service. The NSS has stood as the leading public service organization on campus for the past 3 years, offering different student-run, community-based, and non-profit public service programs. We bet there's at least one that's perfect for you.

NSS Technical Students Units of BMCE, jointly organized a 7 day special camp in the adopted village, Sasthamcotta in the month of January 2018. The main project for this camp was Pipe composting, to make the village Sasthamcotta free from Domestic Waste disposal problems. The vibrant Volunteers of the NSS unit performed many other activities-awareness programmes as Swachbarath, Organ Donation, Road Safety, Health and Hygiene, Construction and Repairs etc. in the academic year 2017-18.



## NBA ACCREDITATION DEPARTMENT OF COMPUTER SCIENCE

Computer science department started functioning in this college from the beginning of the college ie: 2002. Throughout the years we have been striving hard to maintain the quality of education, as a result we have achieved good results in university examination

We have started PG course in Computer Science in the year 2013. Final year thesis of students are guided internally by the faculty members and so far we have published 54 technical papers in international journals including IEEE and Springer.

In this year our department have applied for NBA accreditation work and conducted workshop on 'NBA accreditation Process' handled by Prof.Muruganantham.P, Associate professor, St.Gitts Engg College. NBA accreditation process has been started in the department and Prequalifier form for accreditation process has been submitted. In the second phase we have to submit the SAR Report and currently we are in the process.

## WORKSHOP ON SMART GRID & SOLAR POWER

A Two day workshop on Smart grid and Solar Power was organised By Baseliros Mathews II College Of Engineering, Sasthamcotta on 24th and 25th August 2017 sponsored by Kerala State Council for Science Technology & Environment. The workshop was organized to discuss different areas of solar power and smart grid and to familiarize simulations of Photovoltaic systems using MATLAB in order to equip the participants with the knowledge about this field. The workshop received an overwhelming response with 40 participants from inside and outside kerala. The inaugural session was on 24th August at seminar hall. The technical talk was given by Dr.Prince A (Associate Prof, Dept of Electrical Engineering, RIT Kottayam) on the topic Introduction to Smart Grids. The session was very useful and fruitful in understanding the area of smart grid. The afternoon session was handled by Dr. Kumaravel S. (Assistant Prof, Dept of Electrical Engineering, NIT Calicut) on the topic Issues of Grid connected solar PV System. The class focussed on various issues in a grid connected power system and the solutions to eliminate the power quality problems. On the second day, 25th August 2017, the entire session was taken by Dr.S Jeevananthan (Prof, Dept of Electrical Engineering, Pondicherry Engineering College) on the topic Modelling and Implementation of MPPT Techniques for PV Systems.



## United Nations Academic Impact

The United Nations Academic Impact, also known by its acronym UNAI, is a United Nations initiative to align institutions of higher education, scholarship and research with the United Nations and with each other.

Academic Impact is informed by a commitment to support and advance ten basic principles:

1. A commitment to the principles inherent in the United Nations Charter as values that education seeks to promote and help to fulfill
2. A commitment to human rights, among them freedom of inquiry, opinion, and speech
3. A commitment to educational opportunity for all people regardless of gender, race, religion or ethnicity
4. A commitment to offer the opportunity for every interested individual to acquire the skills and knowledge necessary for the pursuit of higher education
5. A commitment to build capacity in higher education systems across the world
6. A commitment to encourage global citizenship through education
7. A commitment to advance peace and conflict resolution through education
8. A commitment to address issues of poverty through education
9. A commitment to promote sustainability through education
10. A commitment to promote inter-cultural dialogue and understanding, and the "unlearning" of intolerance, through education.

### KFUNAI

Kerala Forum on United Nations Academic Impact (KFUNAI) brought together all technical and nontechnical colleges in-order to discuss and find solution for most complex challenges of our society. In the process, they hone their public speaking skills to get involved in gaining exposure to vastly distinct phases in life, which mere academics cannot facilitate them and forming new friendship along with the likeminded peers.

In 2015, the KFUNAI began, becoming the first International Organization of its kind in Kerala. KFUNAI is administered by Member colleges: principals, professors and other faculty members. Two years later, KFUNAI have elected 12 strongest student council members from various member colleges to govern the KFUNAI activities. In 2017, KFUNAI is on the verge of success in its goal in spreading the United Nations Academic Impact's 10 principles across Kerala State, by reaching out to a more diverse set of colleges and offering greater access to the different dimension of education.

In the academic year 2017-18 our chapter conducted "VIDHYA" a tribute to all teaching staffs of our college on the occasion of the International Teachers Day on October 5, at college seminar hall. Also on that day a one hour session was handled by college students in the nearby LP School.

## ICSCS HIGHLIGHTS 2018

Springer "International Conference on Soft Computing Systems" conducted on 19th April 2018 HG.Zachariah Mar Anthonios Metropolitain, Manager of BMCE lighted the traditional lamp Dr.L.Padma Suresh, Principal BMCE & Conference chair, welcomed the gathering. Presidential Address was given by Dr. F. V. Albin, Director, BMCE. Prof. Ganapati Panda (Professor, Indian Institute of Technology Bhubaneswar) was the chief guest, Special keynote Address was given by Dr. Swagatam Das (Professor, Electronics and Communication Sciences Unit Indian Statistical Institute, Kolkata) & Dr. Mirtha Nelly Aldave (West Hartford, Connecticut, USA). Releasing the Conference CD was done by Prof. Ganapati Panda. 138 papers were selected for presentation and they will be published in international journal of engineering technology and communication in computer and information science.





## TECHNICAL CONSULTANCY FOR PMAY(G)

Pradhan Mantri Gramin Awas Yojana (PMGAY), previously Indira Awas Yojana (IAY), is a social welfare flagship Programme, created by the Indian Government, to provide housing for the rural poor in India. A similar scheme for urban poor was launched in 2015 as Housing for All by 2022. Indira Awas Yojana was launched by Rajiv Gandhi, the then Prime Minister of India, as one of the major flagship programs of the Ministry of Rural Development to construct houses for BPL population in the villages.

### PURPOSE :

The broad purpose of the scheme is to provide financial assistance to the weakest sections of society, for them to upgrade or construct a house of respectable quality for their personal living.

### TECHNICAL SUPPORT :

1. JURISDICTIONS OF BLOCK PANCHAYATHU SASTHAMCOTTA
2. JURISDICTIONS OF BLOCK PANCHAYATHU CHAVARA
3. JURISDICTIONS OF BLOCK PANCHAYATHU OCHIRA

### ROLE OF BMC IN PMAY-G PROJECTS :

1. The Technical Consultancy Provide technical Support for the overall completion of the work
2. The Technical Consultancy Provide plan and estimate for the houses free of cost
3. The Technical Consultants Monitor the whole work as per the PMAY-G rules and regulations
4. The Technical Consultants conducts technical as well as general awareness class for the PMAY beneficiaries.
5. The Technical Consultants ensure the timely completion of work without compromising its quality of work.
6. The technical consultants provides work related material testing and inspection.
7. The technical consultants conduct work site inspection on weekly and monthly.





BMCE's first ever women's day celebration Ziua Femeii'14 was conducted on March 8th 2014, Saturday. The main highlight of the program was the participation of Chief Guest Smt.Ambika Pillai (renowned hair stylist and make-up artist). Second Women's day celebration , Sakhi'16 was conducted on March 12th 2016,Saturday. Ms Fatima Asla ,kid suffering from osteogenesis imperfecta was the chief guest. Her inspirational talk regarding her serious disorder, how she withstand it and got admissions to medicine really really motivated the students. The main highlight of the third women's day celebration, Sakhi 2K18 was, Jaanmoni Das,a transgender and Celebrity Makeup Artist. Various games and cultural events were conducted. It was also an opportunity for the students to exhibit their talents.



## Media Highlights





Institution Code

**BMC**

## Programmes Offered

- B.Tech. in Applied Electronics and Instrumentation Engineering
- B.Tech. in Civil Engineering
- B.Tech. in Computer Science and Engineering
- B.Tech. in Electrical and Electronics Engineering
- B.Tech. in Electronics and Communication Engineering
- B.Tech. in Mechanical Engineering
- M.Tech. in Computer Science and Engineering



### **Baselios Mathews II College of Engineering**

(Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University)  
BMC Estd: 2002

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