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Issue 1 No. 1

KMEA



A Bi-yearly Newsletter of KMEA Engineering College, Kochi

About the College

The Kerala Muslim Educational Association (KMEA) was established in 1955 with an aim of setting up quality educational institutions on a par with global standards, promoting education among minority communities and providing financial aid to the economically weak and deserving students.

The KMEA Engineering College, established in the year 2002, is dedicated to the memory of Sri. C.H. Mohammed Koya, a dynamic visionary, eminent educationalist and administrator.

The College offers B.Tech degree in six Engineering subjects Civil, Mechanical, Electrical & Electronics, Electronics & Communication, Electronics & Instrumentation and Computer Science & Engineering. The College also offers M.Tech Programmes in Civil Engineering, Communication Engineering, Computer Science & Engineering and Power Electronics.

The College is affiliated to Mahatma Gandhi University, Kottayam and Kerala Technological University, Thiruvananthapuram and approved by AICTE. The College houses the first Electronics Incubation Centre, established by Govt. of Kerala, among the new generation Engineering Colleges to work as a nodal point in Electronics Engineering.

The College is selected as the remote centre of Indian Institute of Technology, Mumbai. The college has established INFINITY, the first mirror site in Asia for TRISQUEL and the first mirror site in South India for GNU.

KMEA is committed to provide high-quality education for all of its students. When it comes to the overall development of students, KMEA Engineering College leaves no stone unturned. Highly qualified and motivated faculty, the best of infrastructure facilities and of course the unique, strategic alliance with the industry leader and Kerala's pioneer IT company, the NeST.

Vision Statement

To develop the institute as a centre of excellence, from where skilled professionals and technologists of outstanding caliber will graduate year after year, dedicated to the betterment of deprived and the well-being of the Nation.

Mission Statement

We believe in the noble aim of empowering today's youth to face the challenges of tomorrow, by imparting training par-excellence and equipping them with the will and skill to be ideal role models in Society.

Hearty Welcome

Dr. Amar Nishad T. M has assumed charge as the Director of KMEA Engineering College wef June 5th 2015. He retired as the Principal of T. K. M. College of Engineering, Kollam.

He received his B.Sc. Engineering degree from Kerala University, M.Tech from IIT Kharagpur and Ph. D. from NIT Calicut.

He has been instrumental in bringing new successful perspectives in the field of education. He was the recipient of the prestigious 'Best Principal Performance Award' instituted by the 'Global Achievers Foundation, New Delhi' for his outstanding achievements as a Principal. He is the Principal Investigator for various ongoing projects under AICTE and CERD.



Dr. Amar Nishad T. M.

KMEA Governing Body

President, KMEA

Syed Basheer Ali Shihab Thangal

General Secretary, KMEA

Mr. Riaz Ahmed

Treasurer, KMEA

Mr. H. E. Muhammed Babu Sait

Adv. K. A. Jaleel (Secretary)

Adv. V. K. Beeran

Mr. I. M. Abdul Rahman,

Mr. N. K. Nazar

Adv. P. A. Abdul Majeed Parakkadan

Adv. P. M. A. Kalam

Mr. M. P. Abdul Khader

Mr. N. M. Sharafudeen

Mr. Akbar Badusha

Invocation of 14th batch of B.Tech students



The Invocation Ceremony of the 14th Batch of KMEA Engineering College B.Tech Students was held on Monday, 3rd August 2015. Dr. M. Abdul Rahman, Pro Vice Chancellor, Kerala Technological University inaugurated the academic activities of the first batch of Kerala Technological University. The Guest of Honour, Prof. C.H Abdul Latheef, Syndicate Member, M.G University addressed the gathering and motivated the students for a bright future. A talk on 'Design your Destiny' by Mr. V. K. Krishnakumar, Life Skills Trainer, followed the inauguration. Syed Bashir Ali Shihab Thangal, President KMEA, Jb. Riaz Ahmed General Secretary KMEA, Adv. K. A. Jaleel Additional Advocate General of Govt of Kerala, Jb. H. E. Muhammed Babu Sait, Treasurer KMEA, Jb. N. K. Nazer, Secretary KMEA, Adv. Majeed Parakkadan, Secretary KMEA, Dr. Amar Nishad T. M., College Director and Dr. T. K. Mani, Principal spoke on the occasion. They all wished the students a wonderful experience with the college.

Message



Sri. V K Ibrahim Kunju
Hon'ble Minister for PWD

I am glad to note that the first edition of KMEA Engineering College newsletter is ready. The pride of a college is not only in conducting various academic and co-curricular activities but in highlighting the conducted activities to the outside world. A newsletter is such a medium which can be used to expose the events and programs held in the college.

A wonderful character is created through educating activities in the field of academia, sports fitness, empowerment training, community service and the like. The students of the college have the opportunity to be a part of all these various kinds of activities.

I extend my hearty congrats to the college staff and students who have made struggles to conduct various programs in the college. I wish them all the best for all their future endeavors.

President's Message

It gives me immense pleasure to note that KMEA Engineering College is publishing its first newsletter this month. Over the years since its inception in 2002, the college has produced many notable achievements. It has students outperforming in academics, winning competitions, faculty members acquiring higher qualifications, publication of research/technical papers by the students and faculty alike etc.



Mr. Syed Basheer Ali Shihab Thangal

The college is always developing and implementing new programs and instructional approaches for its students. The college has been privileged to have several important guests visit its campus and share their ideas with the students. But an exclusive medium to carry these achievements and merits to the outside world had been conspicuously absent on the campus. I hope this newsletter will definitely help the college showcase its achievements and activities periodically. Congratulations to the members of the editorial board and the faculty and staff members, and specially the students who together helped in materializing the maiden issue of the newsletter.

General Secretary's Message

I am happy to know that KMEA Engineering College is publishing its first biyearly newsletter. It is a mission of the college to empower its staff and students to expand academically and socially by helping them develop as independent thinkers and problem solvers who excel in the classroom and community. Academic deliberation, interactions and exchange of knowledge along with extra-curricular activities, physical education and service to the society will enable the staff to mould great engineers of the future.



Mr. Riaz Ahmed

This newsletter serves the purpose of proving that the college provides equal importance to academics, extra-curricular and co-curricular activities on and off the campus. I convey my best wishes and compliments to all those who put their efforts for bringing out this newsletter.

Message of Secretary, College Management Committee



Adv. K. A. Jaleel

It is a proud moment to understand that KMEA Engineering College first newsletter is ready. It is a source for information about the college developments, activities & achievements, best practices, successes & learnings, upcoming events, new resources and more. Notable achievements by the students and staff members of the college have been highlighted along with some articles on campus life.

To provide an enriching, engaging, and challenging experience that will prepare its students for success has always been the objective of the college. It has been constantly ensuring that every student receives the skills and knowledge that will take them to higher levels of success. I congratulate the editorial team members for their efforts in putting together a wonderful and informative newsletter.

Treasurer's Message

With great happiness I introduce you to the first newsletter from KMEA Engineering College. This newsletter will be published twice in a year. Here you will find the articles and news from the departments, both on and off the campus and their success stories. It is the right time for the college to publish the newsletter with highlights of the amazing works accomplished by the students and faculty in academics as well as extracurricular programs.



Mr. H. E. Mohamed Babu Sait

I take this opportunity to congratulate the entire team behind this worthy endeavor for bringing out this newsletter.

Director's Message

I present before you the inaugural issue of the biyearly newsletter of KMEA Engineering College for the year 2015. It contains articles on the different and interesting activities of the college during July 2015 to December 2015.

The various programmes conducted during this time period include a rich and engaging range of cultural, sporting and social commitment. Care has been taken to ensure that every student gets access to an environment where they can participate and excel. It clearly shows the hardwork, determination and team spirit of the staff members and students of the college. I congratulate the contributors and the team behind the works of the newsletter. I hope this acts as an encouragement for further more activities on the campus.



Dr. Amar Nishad T. M.

Principal's Message

I am pleased to share with you our first biannual newsletter for 2015. We hope this newsletter will serve as one of the ways to help you keep connected with KMEA, let you know the life in KMEA Engineering College and find the opportunities in which we can work together in the field of Engineering education.

On campus, we partner with institutions to support the amazing work accomplished by students on campus in sponsoring financially weak students, raising awareness of important issues on campus and in communities and providing opportunities for students, staff and faculty to volunteer in support of our social commitment. I congratulate the team behind the success of this News Letter and for all the forthcoming issues.



Dr. T. K. Mani

College Activities

Onam Celebration

Onam was celebrated at our college on 21st August 2015 with great vigor and enthusiasm. There was a display of beautiful flower carpets, a tug of war, Onapaattu, Thiruvathira and many more fun filled activities. Both Director Dr. T. M. Amar Nishad and Principal Dr. T. K. Mani conveyed Onam greetings to the staff and students on the occasion.



Academic Review meeting of KTU @ KMEA Engineering College

A meeting of the Principals and Academic auditors with the Vice Chancellor, Pro Vice Chancellor, Registrar and the Controller of Examinations of APJ Abdul Kalam Technological University was conducted at KMEA Engineering College, Edathala, on 17th September 2015. Twenty three Principals and 9 academic auditors were present at the meeting.



Dr. Kuncheria P Issac, the Vice Chancellor, inaugurated the meeting and discussed the need for conducting the review meetings. Dr. M. Abdul Rahman, Pro. Vice Chancellor of the University explained the Web based Academic audit procedures to be carried out by the colleges. Dr. S. Shabu, Controller of examinations explained the conduct of University Examinations and on line evaluation of answer scripts to be done by the faculty. Later all the Principals gave presentations of the innovative methods adopted in their institutions to achieve curriculum improvement and thereby achieving quality education as envisaged by the Technological University.

Sadbhavana Divas

The idea behind observance of 'Sadbhavana Divas' is to abstain from violence and to promote goodwill among the people across the nation. As per communication from the Chairmān, AICTE the 'Sadbhavana Day Pledge' was taken by all the staff and students of the college on 20th August 2015. The Director read out the words of the pledge which was then repeated by the audience.



M. G. University College Union Election

On 8th Dec 2015, the College Union election was conducted. A boy and girl student were selected as Class Representatives from each class in B. Tech and M. Tech. Later these class representatives elected the College Union Members for 2015-16.

Mr. Sinaj K. H. of S7 Civil Engg was elected as the Chairman, with Ms. Fathima of S5 Civil Engg as the Vice-Chairperson and Mr. Hasif A. P. of S5 Mechanical Engg as the General Secretary. The two university union councillors are Yasir Inam of S3 Mechanical Engg and Jubin Mathew of S7 Electronics & Instrumentation.

GRACE 2K16

Panakkad Shihab Thangal Memorial State Inter School Talent Search Examination & Project Presentation contest is to be held at the college on 6th January 2016. High school students can submit their projects and plus two students can enrol for the talent search examination. There is a cash prize of Rs. 20,000/- for the winners. The top 5 students in the Talent Search Examination will be given admission in the College under the Fee Waiver Scheme.

PANAKKAD SHIHAB THANGAL MEMORIAL
STATE INTER SCHOOL TALENT SEARCH EXAMINATION &
PROJECT PRESENTATION
6th JANUARY 2016
TALENT SEARCH EXAMINATION
FOR ELITE TWO STUDENTS
OVER 1000 STUDENTS FROM
200+ SCHOOLS
Prize Money
over ₹ 20,000/-
PROJECT PRESENTATION
FOR HIGH SCHOOL STUDENTS
OVER 200 PROJECTS FROM
VARIOUS SCHOOLS
Be a part of GRACE 2K16

FDP on Technical Communication

A two-week ISTE-STTP workshop on "Technical Communication" was conducted by IIT Bombay under the National Mission on Education through ICT (MHRD) from Oct 30th to Nov 5th, 2015. The workshop helped the faculty members of the college to organize, comprehend, write and present, short and long forms of any technical work in the framework of the scientific method.

Congratulations

Dr. T. K. Mani, Principal, for his selection as Member, Board of Studies, Electronics & Communication, Cochin University of Science and Technology, Kochi. He is also selected as Member, Business Advisory Committee (Electronics) of Additional Skill Acquisition Programme, Kerala. He is a Research Advisor of College of Engineering, Kidangoor under the TEQIP Scheme.

Ms. Resia Rahmath C. K., Lab Instructor of Electrical and Electronics Engg Dept. has been elected as the District Panchayath Member from Alangad Division during the Panchayath Elections held in November 2015. She is now the Welfare Standing Committee Chairperson in the District Panchayath.

Dr. Smitha K. K., HOD Civil Engineering, on her successful completion of Ph. D titled "Finite Element Analysis of Laminated Composite Subsea Shells" under the guidance of Dr. C. G. Nandakumar, Associate Professor, Department of Ship Technology, CUSAT.

Department Activities

Civil Engineering Department

The 57 students of the Department had visited Water Treatment Plant under the Kerala Water Authority at Maradu on 7th and 9th of November 2015 as a part of their study tour.

The Civil Engineering Students Association (CESA) serves as a platform for the overall development of the students. The CESA organized a competition "TALENT SEARCH" on 17th October 2015. The competition consisted of three rounds such as Mental aptitude test, Advertising a product and Memory passing. The first prize was won by students of S7 Computer Science & Engg and the second prize was won by students of S5 Electrical & Electronics Engg.



Computer Science & Engineering and Information Technology Departments



A Technical Event called "CAZA-TECHNICA" was jointly organized by the Departments of Computer Science & Engineering and Information Technology on 22nd September 2015 in association with the Computer Society of India. The symposium included the following events:

1. Talk on "Internet of Things"
2. Talk on "Future in Computing"
3. Gaming – Caza Technica

The technical talk on "Internet of Things" was presented by Mr. Shrigovind S., CEO of ApplIncubator, Ernakulam during the morning session and the talk on "Future in Computing" was by Mr. Anto John, Business Development Manager of Mashinga Tech Pvt. Ltd during the afternoon session. A total of 37 teams participated in the 3 stages of the game Caza Technica.

Electrical & Electronics Engineering Department

Electrical & Electronics Technical Association (EETA) conducted a quiz competition on 30th September 2015. The programme was conducted as a tribute to our former President and the great Scientist Dr. A. P. J. ABDUL KALAM, and the quiz questions were mainly on outer space. The Quiz Master was Mr. Younus T. M. The winners were Hasan Sahel and Moideen Shiras of S7 Civil Engg and runners up were Abhilash Anand Menon and Akheel Navas of S5 Civil Engg. It was followed by a documentary on Dr. A.P.J. Abdul Kalam, the missile man of India which showcased the successful journey of him as a scientist, space man, orator and above all a real teacher.

Under the auspices of EETA, on 20th October 2015, there was a technical talk on "Live Line Maintenance" by P. A. Mukundan, Asst Engineer, KSEB and a seminar on "Energy conservation and Energy Auditing" by Prof. R. Muraledharan Nair.



Electronics & Communication Engineering Department



The Quiz Competition 'KAINOTOMIA' was conducted by Guild of Electronics Engineers (GEE), the association of Electronics & Communication Engineering Department, on 13th August 2015. The competition was inaugurated by the Principal, Dr. T K Mani. The quiz masters were Mr. Azvad V A and Mr. Amal Augustine from S7 Electronics & Communication Engineering. The competition was divided into two rounds. In the first round there were 21 batches of 2 students each. Out of this, five batches were selected to the second round. Hassan Sahl and Akhil George of S7 Civil Engg bagged the top honours while Ravi Shankar and Jipson Baby of S7 Computer Science & Engg stood second. Farhan Mohammed Rashid and Amritha Santhosh of S7 Electronics & Communication Engg. positioned themselves as the third.

Department Activities

Electronics & Instrumentation Engineering Department

On behalf of Electronics & Instrumentation Students Association (EISA) and Instrumentation Society of India (ISOI), two seminars were conducted on 30th September 2015. The topics of the seminar were "Embedded Systems" and "Introduction to PCB fabrication". Mr. Arun from SILICATECH, Kalamassery conducted the seminar on Embedded systems. The seminar on "Introduction to PCB fabrication"

was handled by Mr. Jithin of ECE Department.

Ms. Sreela of Yokogawa Cochin briefed the students of the department on the recent trends in process control instrumentation. She pointed out the importance of SCADA, PLC, DCS and HMI in industrial sector. A brief introduction about the history of Yokogawa was given.



Mechanical Engineering Department

The students of S7 Mechanical Engineering have successfully completed a three day workshop on 'Haptic Robotic Arm' conducted by Technophilia Systems in association with Robotic & Computer Applications Institute of USA in July 2015. In this workshop the students developed a 3-Axis Robotic Arm controlled by a Haptic robotic suit. This workshop is an integral part of the Indo-US Robo League 2015.

A one week training on SOLIDWORKS, the leading design software, was given to the faculty members of the Department from 21 - 25th September 2015. This workshop was conducted effectively by 'Coceptia Technology', Bangalore. Conceptia is an ISO 9001-2008 certified India based multi-national engineering and consulting firm. The faculty members were given a thorough idea about the design aspects and the assembly based features of various mechanical components.



Students' Achievements

- Mr. Muhammed Ijas and Mr. Ravisankar R. of S7 CS got first place in the "TALENT SEARCH" organized by the Civil Engineering Students Association (CESA) on 17th October 2015. Mr. Anas P. A. of S7 EEE stood second.
- Mr. Mohammed Aslam of S1 CS got first prize in Technical quiz conducted by CS Department.
- Mr. Mithun R and Mr. Baiju Antony, S7 EEE participated in the All Kerala IEEE Computer Society Student Congress (AKCSSC) organized by IEEE student branch of College of Engineering Chengannur and IEEE Kerala Section Computer Society held on 3rd & 4th October 2015.
- Mr. M. P. Suresh of S3 EEE attended a test held by the CAD Centre "MASTER MIND" and qualified for its final round that was held in October 2015. Mr. Mithun R, S7 EEE, and Mr. Akshay S., S5 ECE participated in the Managerial workshop of the Kochi Hub Meet organized by IEEE Kochi Subsection and IEEE student branch of FISAT conducted on July 24th & 25th 2015.
- Mr. Amal Augustine, S7 EC won first place in the quiz competition, Takshak '15, conducted on 12th September 2015 at M. A. College of Engg, Kothamangalam. He won the first place in the quiz competition conducted on 23rd September 2015 by Viswajyothy College of Engg, Muvattupuzha. He has also received the first place in Aswamedha '15 conducted by IIT, Madras at Adi Sankara Institute of Engg and Technology, Kalady on October 3rd 2015.
- Mr. Mohammed Thahaseen, S5 ME and Mr. Amal Ausustine, S7 EC have secured first place in Quiz competition conducted at Don Bosco Arts College, Kannur held on October 29th 2015.
- Mr. Hasan Sahel and Mr. Moideen Shiras of S7 CE won first place in the quiz competition conducted on 30th September 2015 by the Electrical and Electronics Technical Association (EETA). The runners up were Abhilash Anand Menon and Akheel Navas of S5 Civil Engg.
- Mr. Hasan Sahel and Mr. Akhil George of S7 CE bagged the top honours in the Quiz Competition 'KAINOTOMIA', conducted by Guild of Electronics Engineers on 13th August 2015. Mr. Ravi Shankar and Mr. Jipson Baby of S7 Computer Science & Engg stood second. Mr. Farhan Mohammed Rashid and Ms. Amritha Santhosh of S7 Electronics & Communication Engg positioned themselves as the third in the competition.
- Ms. Suhana Mukhtar, Ms. Swetha Mendez and Ms. K. K. Rameesa Kabeer of S5 EC attended the Kochi Hub WIE Congress IRIS '15 held at Viswajyothi College of Engineering and Technology, Vazhakulam on 10th & 11th October, 2015. Ms. Swetha Mendez was awarded the title of Miss IRIS '15 at the event.

Publications

- **Ms. Anju T., Ms. Smitha K. K., Civil Engg Department** - "Finite Element Analysis of Composite Beams with Shear Connectors", International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST-2015)
- **Ms. Charu Lakshmi S., Ms. Smitha K. K., Civil Engg Department** - "Free Vibration Analysis of Laminated Composite Cylindrical Panel", International conference on Emerging Trends in Mechanical Engineering (ICETME), September 2015
- **Ms. Husaiba N. M., Ms. Elsa Paul, Civil Engg Department** - "Structural Analysis of reinforced concrete slit shear walls", International Journal of Science and Research, Vol 4, Issue 11, November 2015
- **Ms. Rekha Lakshmanan, Computer Science Dept.** Shiji T.P., Suma M. Jacob, Thara Pratab and Vinu Thomas, Computer Science Dept., Model Engg. College - "Pectoral Muscle Boundary detection in Mammograms using homogeneous contours", Fifth International Conference on Advances in Computing and Communications, ICACC 2015
- **Ms. Rekha Lakshmanan, Computer Science Dept.** Shiji T.P., Suma M. Jacob, Thara Pratab & Vinu Thomas, Comp.Science Dept., Model Engg. College "Detection of Architectural Distortion in mammograms using geometrical properties of thinned edge structures", Intelligent Automation & Soft Computing, Autosoft Journal, Taylor and Francis Publisher, 2015
- **Ms. Rekha R., Ms. Selin M., Computer Science & Engg Department** - "Biometric Authentication using partial hierarchical visual cryptography", IJESRT, ISSN 2277-9655, October 2015.
- **Ms. Shahanas K. A., Ms. Selin M., Computer Science & Engg Department** - "An efficient fingerprint compression algorithm using sparse coding", International Journal of Current Research, IJCR 2015
- **Ms. Vidhya Lakshmi R., Ms. Selin M., Computer Science & Engg Department** - "A Secure mail application using steganography and visual cryptography" Global Journal of Engineering Science and Research Management, September 2015.
- **Ms. Aneeta Varghese, Ms. Abeera V. P., Computer Science & Engg Department** - "IoT based Information System for Environment Monitoring And Management using K Medoid Algorithm", Global Journal of Engineering Science and Research Management, September 2015
- **Ms. Sumayya P. I., Ms. Sheena Kurian K., Computer Science & Engg Department** - "Two Layer Security Combining MSB Based Steganography and RSTEG with Cryptograph", IJRDO, Sept 2015.
- **Ms. Sumayya P. I., Ms. Sheena Kurian K., Computer Science & Engg Department** "Improving LSB steganography using filtering approach along with AES and RSTEG", IJRDO, Oct 2015.
- **Ms. Ambili R., Ms. Fareeda A. Kareem, Electrical & Electronics Engg Department** "A Novel Multilevel Inverter with Reduced DC Sources", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJREEICE), Volume 3, Issue 9, September 2015
- **Ms. Rose Mary Jose, Ms. Remna Radha Krishnan, Electrical & Electronics Engg Department** - "A Booster and PWM Based Power Amplifier for Reaction Wheel", Volume 3, Issue V, International Journal for Research in Applied Science and Engineering Technology (IJRASET), May 2015.
- **Ms. Jinsa B. Salim, Ms. Abida C. A., Electrical & Electronics Engg Department"** - Photovoltaic micro-inverter with high voltage gain DC-DC converters", International Journal of Science Engineering and Technology Research, Volume 4, Issue 10, October 2015.
- **Ms. Anna Steffy, Ms. Renjitha S. , Electrical & Electronics Engg Department** - "Transistor Clamped Split Phase PWM Inverter", International Journal of Science, Engineering and Technology Research, Volume 4, Issue 10, October 2015.
- **Ms. Anju Rajan, Ms. Divya Subramanian, Electrical & Electronics Engg Department** - "Analysis of a Sensor Based BLDC Motor With Bridgeless SEPIC Converter For PFC And Speed Control", International Journal of Science, Engineering and Technology Research, Volume 4, Issue 10, October 2015.
- **Ms. Aaliya P. A., Mr. George T. V., Electrical & Electronics Engg Department** - "Integrated Two Stage LED Driver", International Journal of Science, Engineering and Technology Research, Volume 4, Issue 9, October 2015.
- **Ms. Akhila J. Lal, Mr. Muraleedharan Nair, Electrical & Electronics Engg Department** - "Miniature Model for Automatic Speed Control of Induction Motor Drives ", International Journal of Science, Engineering and Technology Research, Volume 4, Issue 40, October 2015.
- **Mr. Raphin C. A., Mr. George T. V., Electrical & Electronics Engg Department** "High Efficiency Photovoltaic Power Controller using MPPT and Buck-Boost Converter", International Journal of Science, Engineering and Technology Research, Volume 4, Issue 10, October 2015.
- **Ms. Remya V. V., Ms. Ann Mary Thomas, Electrical & Electronics Engg Department** - "A PFC Bridgeless Buck-Boost Converter fed BLDC motor with Sensorless Control", International Journal of Advanced Information Science and Technology, Volume 39, Issue 39, October 2015.
- **Ms. Reshma Ismail, Ms. Neenu B., Electrical & Electronics Engg Department** - "A High Voltage Gain Interleaved Boost Converter with Dual Coupled Inductors", International Journal of Engineering Research and Technology, Volume 4, Issue 9, September 2015.

Publications

- **Ms. Shilpa Sudheer, Ms. Rehana Fathima, Electrical & Electronics Engg Department** - "A Transformer-less Voltage Quadrupler DC-DC Converter with Low Switch Voltage Stress", International Journal of Scientific Engineering and Technology Research, Volume 4, Issue 40, October 2015
- **Ms. Manju Bhaskar, Ms. Jasmi J., Mr. Thomaskutty Mathew, Electronics & Communication Engg Department** - "Microstrip Bandstop Filters Based on Hexagonal Complementary Split Ring Resonators", Fifth International Conference on Advances in Computing and Communications, 2015
- **Ms. Aruna V. Panicker, Ms. Ansiya Eshack, Electronics & Communication Engg Department** - "CFA based pipelined S-box for AES Algorithm", International Conference on Current Research in Electronics, Computer Science, Information Technology and Mechanical Engineering, November 2015
- **Ms. Deepa Mathew and Mr. Binish M. C. Electronics & Communication Engg Department** - "A Fast Intra Prediction for H.264/AVC based on SATD and Prediction Direction" International conference on Emerging Trends in Engineering, Science and Technology, Dec 2015
- **Ms. Haseeba T., Electronics & Communication Engg Department** - "Secret data hiding in encrypted compressed video bit streams for privacy info protection", Information innovative Journal on science and technology, November 2015
- **Ms. Sumayya Ali, Ms. Smitha K. M., Electronics & Communication Engg Department** - "Optimal cooperative beamforming design for MIMO relay channels", International conference on Emerging Trends in Engineering, Science and Technology, December 2015
- **Ms. Sumayya Ali, Electronics & Communication Engg Department** - "Performance evaluation of fading channels in non-regenerative communication protocol", IJSR, August 2015
- **Ms. Mintas Parveen, Electronics & Communication Engg Department** - "Code Selection with Application to Spread Spectrum Systems Based on Correlation Properties", International Journal of Advanced Research in Computer and Communication Engineering, Volume 4, Issue 6, June 2015
- **Ms. Mintas Parveen, Electronics & Communication Engg Department** - "Secure Optical Communication using Spreading Codes and Cryptography" in International Journal of Advanced Research in Computer and Communication Engineering, Volume 4, Issue 10, October 2015
- **Ms. Rahiyanath T. Y., Electronics & Communication Engg Department** - "A Novel Architecture for Lightweight Block Cipher, PICCOLO", International Journal of Research in Engineering and Technology, Volume 4, Issue 9, September 2015
- **Ms. Shalate D'cunha and Ms. Shefeena P. S., Electronics & Communication Engg Department** - "Electronic Disguised Voice Identification Based on Mel Frequency Cepstral Coefficient Analysis" International Journal of Scientific and Research Publications, Volume 5, Issue 11, November 2015

Placement Activities

KMEA Engineering College has got a strong and full-fledged Career Guidance and Placement Unit (CGPU). The CGPU assures logistic support to the visiting companies at every stage of the placement process by making campus infrastructure available to them. It will act as an interface between the industry and the students, and will primarily enable the students to select from their career options. It also conducts seminars and workshops to enable the students of KMEA to become successful professionals.

Placement activities in the academic year 2015-2016

- 83 companies have participated in the final placement process for B.Tech - 2015 pass out students.
- 35 companies visited KMEA during this year for recruitment of B.Tech – 2014/2015/2016 students.

Training activities in the academic year 2015-2016

- Industry Institute Interaction with more than 200 companies
- More than 200 students had done internship during their academic years
- Career guidance programmes were conducted for B.Tech students.

Top Recruiters



IEEE & IETE Activities

The IETE (Institute of Electronics and Telecommunication Engineers) Students Forum (ISF) of the college was inaugurated on 12th October 2009 and the IEEE (Institute of Electrical and Electronics Engineers) Student Branch on 12th September 2012. Since their inception, a number of Inter Collegiate events and various programmes including National Workshops, Seminars, Quiz, Orientation sessions and Technical Talks has been organized and conducted by the two professional bodies. Under the leadership of Prof. Manju Bhaskar, ISF Co-ordinator and Prof. Ansiya Eshack, IEEE Branch Counselor the following programmes were arranged in our college during the past six months.

Corporate Awareness on the Oil and Gas Industry & its Job Opportunities

An interactive session on Oil and Gas Industry and its job opportunities was conducted under the auspices of IEEE Student Branch & IETE Students Forum of the College on 5th August 2015. The session gave an insight into the basics of the Oil and Gas Industry, mainly its business elements and sectors. The session was handled by Mr. Akbar Arakkal who has more than 10 years experience in Oil & Gas industry and is specialized in Marine Communication and Air Traffic Controls.



"I-WEEK"

The College conducted its annual mega event, the "I-WEEK", from 5th October 2015 to 9th October 2015, which is a week-long program jointly organized by the IETE Students Forum and IEEE Students Branch of the college.



The inauguration of the activities was done on 5th Oct by the Chief Guest, Dr. M. V. Rajesh, Hon. Secretary, IETE Kochi Centre and Chair, Inter Society Activities, IEEE Kochi Sub Section.



Seminar on "Embedded systems, Raspberry Pi and Robotics" in association with Arvin Technologies on 6th October 2015.



Workshop on "Arduino" in association with Grey Technolabs on 7th October 2015



Seminar on Energy Management and Audit by Mr. C. Jayaraman, Former Senior Manager (E&C), BPCL on 8th October 2015.



Workshop on "Practical Aspects of Networking" in association with Grey Technolabs on 9th October 2015.



Workshop on "LabView" in association with Silica Tech on 9th October 2015.

IEEE Day Quiz 2015

The IEEE Day Quiz 2015 Prelims was conducted for the IEEE members of the college. This was held on Oct 6th 2015 to commemorate the IEEE Day. The final round for the shortlisted participants was held in GEC Thrissur on October 10th 2015. Mr. Joel T. J. of S5 CS and Mr. Shiva Ganesh of S5 EC B batch won the prelims and attended the final round at GEC.

National Service Scheme Activities

National Service Scheme (NSS) is an India Govt. sponsored public service programme under the department of Ministry of Youth Affairs and Sports. NSS aims the personality development through Community service under the motto "Not Me But You". The College NSS Unit No.226 is under the directorate of Technical Education (Technical Cell), is following all the path led by NSS Programme Officer, Asst. Prof. Abjith N. A.

Cleaning of Aluva Railway Station

On 21st September 2015, the hardwork and dedication of 160 volunteers of NSS unit of the College gave Aluva Railway Station a newer, cleaner image. Ten groups of 16 students meticulously cleaned the different areas of the station. Their work was highly appreciated and congratulated by the Station Master C. Balakrishnan. He also offered his whole hearted support for all upcoming social activities of the unit.



Vijnanayathra



A vehicle rally was conducted by the NSS unit of the College in association with Rajagiri College of Social Science Kalamassery on 1st Oct 2015. The rally, under the leadership of Prof. Joshiy Varghese, began from Rajagiri College of Social Science and reached the College campus at 2 pm on the said day. The main aim of the rally was to enlighten the staff members, students and the public on the importance of cleanliness, proper waste management, the usage of solar power and other renewable sources of energy and the need for energy saving.

Medical Class

A medical class on 'AWARENESS OF HEART DISEASES' was conducted on the college campus on 30th September 2015. This class was arranged in association with Super Speciality Hospital, Renai Medi City, Ernakulam. Leading Cardiologist of the hospital, Dr. Safeek Ahmed, handled the session. He spoke on the different types of heart problems, their precautions and their identification.



Orientation Class on Volunteerism & Leadership

An orientation session, for NSS volunteers, to discuss on the various camps conducted so far by the Unit and to present the future programs planned for the upcoming year was held on 31st October 2015. It also included an experience sharing session, by a senior NSS Volunteer Vishal TVijayan.

Volunteerism and Leadership help to empower the students to become effective leaders and active community members through participation in varied experiences, programs and services. With this in mind, a class on "Volunteerism and leadership" was conducted by National Service Scheme volunteers of the College on 1st November 2015. The session was handled by senior NSS Volunteer of the college, Mr. Younus T. M.



Best Blood Donor Award

NSS Program Officer, Sri. Abjith N. A., received the Best Blood Donor Award for KMEA Engineering College from I. M. A Blood Bank Vice President Dr. Abraham Varghese at an event held at I. M. A. Hall Ernakulam on 7th October 2015. The college won this award for its activities which included conduct of medical and blood donation camps, campaigns for creating awareness on blood donation & associated pain and palliative care programs. Blood donation and palliative care are of unmatched importance, and we at KMEA Engineering College believe that 'every drop of blood donated & every act of care and comfort counts'.



College Campus Cleaning

NSS Unit of the College conducted a campus cleaning programme on 2nd October 2015. Around 150 volunteers of the Unit meticulously cleaned the various areas of the college campus.



Pain & Palliative Care Activities

The Pain and Palliative Unit of the college have gone miles ahead by their active efforts in taking care of the terminally ill patients. The volunteers have identified a large number of patients living in the city and its premises. With its Home Care activity, the students make sure that they visit the patients once a week and provide assistance in medication and dressing of their wounds. This effort put in by the volunteers is highly appreciated by the medical community. Dr G. Mohan, medical officer, Department of Palliative Care, Ernakulam General hospital, calls it a noble act. Dr Shakti Prasad, chief physiotherapist, Alpha Pain Clinic, appreciates the work of the students and urges them to convey the message to their juniors so that this endeavour continues indefinitely. As a jewel to its crown, it has an ambulance of its own the first of its kind in this state.



Hadiya Fund Collection

Campaigning attempt made by the volunteers of NSS Unit & Pain and Palliative Care Unit of the college helped to collect around rupees one lakh for extending financial support to Hadiya, a seventeen year old girl, who was in a stage of coma and admitted in Aster Medicity hospital Ernakulam.

The amount was handed over to Mr. Abdul Rasheed, father of Hadiya by the Hon. Minister of PWD, Govt of Kerala Mr. V. K. Ibrahim Kunju.



Sneha Kit Programme

The students of NSS Unit and Pain & Palliative Care Unit of the college arranged a Sneha Kit Programme on 21st Aug 2015 to lend a help to the house keeping members of the college. Each volunteer contributed Rs. 100/- and bought food items for the amount collected. These items were then packed and distributed to the members of the house keeping team. The college Director, Dr. T. M. Amar Nishad and Principal, Dr. T. K. Mani handed over the kits.



Chennai Relief Fund

The Pain and Palliative Care Unit of the college arranged the collection of relief items for Chennaites who have been struggling with the incessant rain that has been plaguing Tamil Nadu for weeks. Loads of blankets, medicines, mineral water, biscuits and oats were packed carefully. The flag off of the vehicle was done by Vazhakulam Block Panchayth President Mrs. Mumthas teacher.



Medical Camp

The NSS Unit and Pain & Palliative Care Unit jointly conducted a Medical Camp on August 9th 2015 at Govt. U. P. School, Kummanode. This was in association with Renai Medicity Hospital and the heartfelt support of Kizhakkambalam Grama Panchayath. Kunnathunadu M. L. A., V. P. Sajeendran, officially inaugurated the camp. Consultant doctors, of Renai Medicity Hospital, in the fields of General Medicine, Cardiology, Ophthalmology, ENT and Ayurveda were available. The camp was attended by 324 participants although it was a rainy Sunday. The efforts put up by the college in this regard was highly appreciated by the residents of that area.



Assisted Activities



Amazingly beautiful performances by the special children in M.V. Ebrahimkutty Memorial Special School Edathala on 21st August 2015 when a group of final year students and the college Principal visited them for an Ona Sadya.

The college Director, Dr. T. M. Amar Nishad handed over an amount of Rs. 1.25 lakhs to the family member of Tijo Tommy, who suffered injuries due to burning up of his bike at Ankamaly.



Sad Demise



We are deeply grieved by the sad demise of Mr. Paul K. G. (68), former Office Superintendent, on October 25, 2015. The entire KMEA family is deeply grieved and joins the bereaved family in their sorrow.

Sports Activities & Achievements

The college Physical Education Department takes great effort to provide students an opportunity to display their special talents and enable them to obtain great achievements in this field. It helps them to represent the college in the different state and national level games and achieve their goals.

Training Camp

The department had conducted a 60-day off season training camp for the students in different games and sports from 15th September to 15th November, 2015. The camp was held from 6.15 am to 7.30 am in the morning and 5 pm to 6.30 pm in the evening on all days of the week except Sundays. It was a complete body conditioning and training program in which more than 70 students participated in each of the sessions.



The college football team participated in the M. G. University Inter-collegiate Football Tournament held at Newman College, Thodupuzha on 06-11-15 and the basket ball team participated in the M. G. University Inter-collegiate Basketball Tournament at St. Peter's College, Kolenchery on 18-11-15.



The Pro-Vice Chancellor of APJ Abdul Kalam Technological University, Dr. M. Abdul Rahman distributed certificates and cash awards to the achievers at different sports events.

1. Mr. Vyshak N. Menon member of Senior State Chess Boxing & Kick Boxing Championship 2014-15



2. Mr. Mohammed Azharudhin A. A. represented Kerala State Senior Baseball Team 2014-15



3. Mr. Mohammed Printious K. S. of S4 Electronics and Communication participated in the 7th Federation cup softball championship held at G.N.D.U Campus Amritsar (Punjab) from 13th to 15th June 2015. He secured 3rd place in Senior State Softball Championship representing Ernakulam team from Sept 18th – 20th, 2015 and represented the Kerala team at Senior National Softball held at Chandigarh from Oct 27th – Nov 2nd 2015.





Editorial Board

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C.H.Mohammed Koya
KMEA Engineering College

Edathala, Aluva, Ernakulam - 683561, Kerala
Phone:0484 241 1004
www.kmeacollege.ac.in