



mcetTIMES

MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY

Anad, Nedumangad, Thiruvananthapuram 695544

(An ISO 9001-2000 Certified and NAAC Accredited Institution)

website : www.mcetonline.com



Chairman's message

Welcome to the fifteenth issue of the MCET newsletter. In order to succeed, organizations need to grow: as the world moves forward at an ever-quickenning pace, stagnation really means moving backward. From the very beginning, MCET has continued to demonstrate impressive growth which has enabled us to be innovative and creative. MCET provides an enriching, engaging and challenging experience that will prepare its students for success. I congratulate the editorial team members for their efforts in putting together a wonderful and informative newsletter.

- **Shri. G. Mohandas** (Chairman, MCET)

Director's message

I am pleased to share with you our fifteenth issue of MCET Newsletter. At MCET, students are expected to have an enriching and life-turning experience which will enable them to reach new heights in their professional life. We foster sharpening of skills and enhancement of knowledge base in our students through various extra-curricular, co-curricular and curricular activities through faculty who not only keep themselves at par with the current developments but also contribute to the expansion of the body of knowledge in their field of expertise. To facilitate this, we have Centers of Excellence to enhance domain specific research and training among members of faculty and entrepreneurship among students. With very congenial and professional environment our faculty makes substantial contribution to the academia through quality teaching, publications, seminars, conferences, etc. This newsletter is our modest attempt to showcase our experiences of the year gone by.



- **Dr. AshaLatha Thampuran** (Director, MCET)

Principal's message



I am indeed proud to witness the Fifteenth edition of MCET Newsletter. Mohandas College of Engineering and Technology provides each students ample provision and opportunity to develop and showcase their technical, cultural and co-curricular talents in a systematic manner. The ambience of MCET is well equipped to enhance the academic and research culture in faculty and students.

This Newsletter brings out the list of various activities conducted under different heads at MCET during 2016. I take this opportunity to congratulate each faculty and students of MCET for their efforts and pain taken to bring the laurels to here, to satisfy the mission and vision of MCET.

- **Dr. S. Sheela** (Principal, MCET)



NAAC ACCREDITED INSTITUTION

WELCOME BACK



Prof. Deepa Nair

Prof. Deepa Nair joined MCET on July 2007. She has 19 years of teaching experience, 1 year of Industrial experience and 1 year of Software Training experience. As she is pursuing her doctoral study at NIT Calicut since Dec. 2012, she was on leave from then. She is specializing on Image Dehazing and its Quality assessment and has presented papers in National and International Conferences. She has rejoined MCET on January 2017 and is working as Professor in Dept. of ECE, MCET.

OBITUARY



Prof. P. Hariharan

Worked at MCET for 12 years. Before joining Mohandas College he has served as an Instructor in ITI, as foreman in LBS Centre on deputation, as Lecturer in a polytechnic, as Assistant Controller of Exams and retired as Head of Section of Govt. Polytechnic, Attingal. He joined MCET on 16/09/2002 as First Grade Instructor and served us upto January 2015.



Ms. Sheeja Peon



Mr. Prabhu Kumar
S2 MCA



Ms. Aiswarya M.
S1 MCA



Prof. Deepthi K. Das

Prof. Deepthi K. Das worked as a faculty in the Dept. of Mathematics from 24th July 2010. Before joining MCET, she worked as a Guest Lecturer in the Dept. of Mathematics, VTMNSS College, Dhanavachapuram. As a sincere and excellent teacher, she served MCET for 5 years and passed away on 4th March 2016. She was also the Treasurer of PTA for two years.



Mr. Nithin Salim
S7 ME B



Mr. Nandagopan G.
S7 ME B



Mr. Vivek P.S.
S1 EEE

CONGRATULATIONS



Ms. Aparna H., S8 CSE had won 2nd prize Kerala University, National Youth Festival, 1st prize Kerala University, South zone Youth Festival, Melody Singer of Year 2016, 92.7 BIG FM, 2nd prize, light music, Kerala University Youth Festival.



Mr. Aravind H., S6 CSE had won 1st prize for Non-percussion Instrumental (Violin) at Inter University National level, 1st for Instrumental Violin Kerala University Youth festival and 3rd for Violin at South zone Inter University Youth festival.



Mr. Atul Sanjeev, S8 BT had won 1st for Situation Manager of Yagnadhruva, 2nd for Fundamentals of Yagnadhruva, 2nd for Best Engineer of AGNEYA, 2nd for Paper Presentation of DYUTHI'16, 2nd for Paper Presentation of DYUTHI'16.

Mr. Sachin.S.B and Mr. Aravind.G.S (S6 ME) won 1st prize in the Inter College Quiz Competition held at STIST, 1st prize for General Quiz of "BRAHMA 2017", 2nd prize for Quiz of "FENSTRA 2017", 2nd prize for Quiz held at Younus College of Engg.



- Mr. Aravind.G.S (S6 ME) had won 1st prize for "QBOLA" of "ETERNIA 2016", 1st prize for "Gnosis-Quiz" as part of "Summit 2016", 1st prize for "OBSCURA - Tech Quiz" as part of Horizon 2K16, 1st prize for "Azionare TechQuiz" held at Trikaripur Arts & Science College, 1st prize for "TechQuiz" of "Navigator '17", 2nd prize for "CEREBRO", of "DYUTHI 2016", 2nd prize for TECHNIZ, of "Conscientia'16", 2nd prize for Quiz of "NAKSHATRA'16".
- Mr. Athul Sanjeev, Ms. Surya.V, Ms. A R Krishnaindhu and Ms. Athira S V, S8 BT had secured several prizes for Paper Presentation, Poster Presentation, Project Presentation Quiz competition and had won the overall Championship of Euphenics'17 conducted at PSR College of Engg., Sivakasi.



College Dance team had won 1st at MES College of Engg., Malappuram, 2nd at GEC, Bartonhill, 2nd at Carmel Engg. College, Pathanamthitta, 3rd at LBS College of Engg., and also got selected in Indian Hiphop Championship finals.

NAAC TEAM VISIT

National Assessment and Accreditation Council peer team visited MCET from 3rd to 5th November 2016. The peer team consisted of four eminent persons- Prof. H.P. Kincha, IISc Bangalore as Chairman of the team, Dr. Rhymend Utariaraj, Anna University as Member Coordinator, Dr. Surendra Kumar, Banaras Hindu University and Dr. Varinder Sahni, Sant Longwall University, Punjab as members. MCET achieved B+ grade for five years from 2nd December 2016.



EKALAVYA IITB/IITKGP WORKSHOPS

Mohandas College of Engineering and Technology is a recognised centre for remote learning under the Ekalavya program. The following STTP were conducted in the last academic year under this program

TWO WEEK ISTE WORKSHOP ON CMOS, MIXED SIGNAL AND RADIO FREQUENCY VLSI DESIGN

Conducted by IIT Kharagpur from 30th Jan-4th Feb. 2017
CO-ORDINATOR/ ORGANISER : Prof. A. Tamizharasi (Remote Center Co-ordinator)
Prof. Nissa Surling S.N.(Workshop Co-ordinator)

A Two Week ISTE STTP on "CMOS, Mixed signal and Radio Frequency VLSI Design" was conducted for faculty members of Electronics, Electrical and Computer Science Engineering departments which included

theory sessions of Prof. T.K.Bhattacharya, Dept. of Electronics and Electrical Communications, IIT Kharagpur, Prof. Indrajit Chakrabarti, Dept. of Electronics and Electrical Communication, IIT Kharagpur. The remote Center Co-ordinator was Prof. Nissa Surling S.N.,ECE.



Two week ISTE STTP on CMOS, Mixed Signal and Radio Frequency VLSI Design 30/1/17 to 4-2-17-Participants and Team members

Out of forty five candidates, forty faculty members were from various Departments of MCET, and five external participants had attended the workshop.

PTA'16

The PTA (Parent – Teachers Association) is formed with a view to maintain effective interaction between the college and parents. The MCET-PTA is very active and is giving considerable assistance for the improvement of college.

The PTA of MCET is headed by Dr. Ashalatha Thampuran, (President MCET-PTA) and Dr. S. Sheela (Vice-President MCET PTA). The executive committee comprises of following parents:

Mr. Majeewan S.,
Dr. P. Sanjeev Kumar,
Mr. Surendran Nair,
Mr. Sankara Narayanan,
Mr. Ajayan S.,
Mr. Prabhakaran Nair D.,
Mr. K. Sathish Kumar,
Mr. K. Jayakumar.



On 9th January 2016 the PTA General Body meeting was held. Proficiency prizes were awarded to the following students:

1. Class toppers : 2 students (first and second) from each class.
2. Consolation prize for all those who secured 8.0 GPA & above.
3. Best incoming from MCA and S1 B.Tech : 7 students

MCET PTA also provided Rs 7000 each (per year) for 28 students as part of Merit cum means scholarship during academic year 2016.

ANNUAL ATHLETIC MEET



The 14th Annual Athletic Meet'16 of MCET was conducted on 27th and 28th of February 2016 at the University stadium Trivandrum and College ground, MCET respectively. Dr. Sanjayan Kumar, IFS Director of Kerala sports and youth affairs, Govt. of Kerala, was the Chief guest and received the salute at the march-past.



COLLOQUIUM'16



The annual technical fest Colloquium of Mohandas College of Engineering and Technology was conducted on 4th and 5th March 2016. The aim of colloquium is to identify and encourage creative talents of budding engineers and technologists throughout the country. The fest was inaugurated by Dr. K. Vijayakumar, Director of Technical Education and keynote address was given by Dr. K.R.S. Krishnan, Director (Technical and Operation), HLL Life care Limited.

MCET – TROPHY'16



The tournament was hosted by MCET, conducted from 14th to 17th March 2016. Mar Baselious College of Engineering, Trivandrum had won the Prize.



COLLEGE DAY'16



The College Day of MCET was celebrated on 31st March 2016. It was our privilege to honour Shri. M. Jayachandran, for achieving the National award for Music Director 2016. The college day celebrations was inaugurated by the famous Music Director Shri M. Jayachandran and Shri. Vijay Yesudas, the eminent playback singer of Malayalam film industry. The staff and students academic and non-academic achievements were recognized and awarded with prizes. This was followed by cultural programmes by our students.

SAMAGRA'16



SAMAGRA'16- indicative of culmination of the four year graduation program provided a platform for final year B.Tech students of all departments to showcase the products of their final year projects on 4th June 2016. SAMAGRA'16, primarily organized as a Technical Outreach Program marked as the

accomplishment of societal obligation of the Institution. 22 select projects were exhibited. A team of experts from academia and Industry appraised the depth and breadth of each project in detail and shared their views. Almost 300 students from higher secondary schools in this locality visited this exhibition and excellent feedback were given by the students.



ISTE

FACULTY INDUCTION PROGRAMME



A one week duration Faculty Induction Programme was organized from 27th June to 2nd July 2016 by ISTE MCET Chapter. Dr. B. Anil former Chairman ISTE Kerala Section and Principal GEC Barton Hill, inaugurated the program and delivered the Keynote Address. A special talk by Prof. Nidhi M B, Assistant Professor, MBCET and ISTE National Executive Committee member, about objectives and general goals of ISTE and activities of ISTE at national level. 26 teachers from Mohandas College of Engineering and Technology participated in it. The resource persons included 3 in-house faculty and 5 invited speakers. The program stressed on effective teaching methods, learner's outlook, motivation, yoga workshop, effective communication and leadership. Micro teaching programme was conducted and its evaluation was done by the panel chaired by Dr. K. P. Pillai, Dr. S. Sheela and respective HODs.



Weekly Colloquium : Domain lectures are conducted at MCET in a weekly basis. The following were the lectures conducted in the last academic year.

Sl.no	Date	Speaker	Topic
1.	9/2/2016	Dr. Jayaprakash	Cloud Computing
2.	7/4/2016	Dr. Rajeev	Motivational talk for empowering students
3.	8/4/2016	Dr. A. Sabu	Opportunities in Biotechnology and Biochemical Engineering
4.	28/4/2016	Mr. Roopesh Jemu	Cloud Engineering
5.	29/4/2016	Mr. S. Anwar Hussain	Structural Rehabilitation
6.	29/4/2016	Dr. K. Prescilla	Real-time lark management for heterogeneous multiprocessor systems.
7.	12/1/2017	Prof. Deepa Nair	Uncovering The Veil
8.	09/2/2017	Mr. Jerold M	Adsorption for waste water treatment
9.	16/2/2017	Ms. Preeja Priji	Emotion Aware Mobile Cloud Computing in 5G

NSS ANNUAL STATE MEET AND AWARD FUNCTION



The NSS Technical Cell Annual State Meet and Award Function 2015-16 was hosted by Mohandas College of Engineering and Technology, Anad on 9th and 10th July 2016. Sri. Kadakampally Surendran (Honourable Minister for Electricity, Kerala) was the chief guest of the event and many distinguished guest like honourable Vice Chancellor APJ Abdul Kalam Technological University Dr. Kuncheria P Isaac, Dr. M. Abdul Rahman (honourable PVC, APJAKTU), Sri. G. P. Sajith Babu (Regional Director NSS), Sri. I. V. Soman (Coordinator ETI, NSS) Sri.. V. A. Shamsudheen (Dy. Director SITTR) were present. Around 100 programme officers and 400 volunteers including PENTA, NACT members from all districts of Kerala participated in this event.

PRABANDH'16



Prabandh'16, the National Conference on Recent Advances in Computer Science, Applied Electronics and Power Engineering was held on 15th & 16th July 2016. It is meant to be a platform where distinguished delegates from the academia and technocrats from the industry in the mentioned streams can come together and exchange their views. This National Conference held annually by MCET is aiming at the PG

students of various streams.

The conference was inaugurated by Sri Santhosh C Kurup (CEO, ICT Academy) on 15th July 2016 in the presence of Smt. Rani Mohandas (Secretary, VNGP Trust). Invited talks were delivered by eminent professionals in their respected streams.

ONAM CELEBRATIONS



Onam celebration was held on 1st September 2016. The celebrations included Onam games, Thiruvathira, Athapookkalam contest, etc. The chief guest for the event was our honorable Chairman Shri G. Mohandas and his family. The program started with a procession which was enlightened with Chendamelam, Thalapoli and Pulikali.



The official inauguration of Onam Celebration was made by lighting up the lamp at Mohandas Hall by the Chairman. It was followed by an Onam Message from the Chairman, Secretary, Director, Principal and other dignitaries. The celebrations saw enthusiastic participation from students and staff of MCET.

TEACHERS DAY '16

On 5th of September, we celebrated Teacher's day in a special way by presenting a greeting card designed by our students and a special gift - "Pen Drive" to all teachers.

ARTS FEST'16

MCET gives due importance to the cultural activities along with academic subjects for the all round development of the students. The Arts Festival is conducted by the student's council during every odd semester, which is a two day Inter house competition. Various events are Musical events, Dance



events, Fine Arts, Stage events, Quiz Competition, Recitation, Elocution, Mock press, Adzap, Debate, JAM etc. Arts Fest'16 was conducted on 30th September and 1st October 2016. Freshers day was conducted on the afternoon session of 1st October 2016.



Thiruvananthapuram had participated in this festival. Professional Show was held on 15th October 2016 at 6.00 pm by Vidwaan Band.



NATIONAL UNITY DAY

National Unity Day was celebrated on 31st October 2016. Our Director Dr.Ashalatha Thampuran gave a talk on the importance of national integrity and contributions of Sardar Vallabhai Patel for the formation of modern India. College Student Chairman Mr.Abhinandh gave the oath to all MCET students.

AAMCET DECENNIAL MEET

AAMCET Decennial Meet 2016 was held on 8th October 2016 at Uday Samudra Hotel, Kovalam. The program started by lightning of lamp by Director Dr. Ashalatha Thampuran, MCET. Dr. Sheela S. Principal MCET. The retired faculty members of Mohandas College of Engineering and Technology were presented with ponnada and memento by Alumni as part of Guruvandanam.



HARITHA KERALAM

As part of Haritha Keralam, the NSS unit of MCET, organized a talk on soil conservation by Dr. Balan, Retired Professor from College of Engineering, TVM on 8th November 2016. The program was followed by a visit to the MCET Organic Vegetable Garden and the initial harvesting of Red Spinach was done.



NATIONAL EDUCATION DAY

National Education day, 11th November 2016, the birth anniversary of Moulana Abulkalam Azad, the great freedom fighter, eminent educationist and first union minister of education of Independent India. Our Director, Dr. Ashalatha Thampuran addressed the students and staff on the occasion. A rally of NSS volunteers was also arranged from Anad Junction to the college to spread the awareness among public. As part of this event, a quiz program was conducted for first year students.



ILLUMINATI'16



The annual cultural and literary fest 'Illuminati' was conducted on 14th and 15th of October 2016. The inaugural ceremony was held at Mohandas Hall at 10:30 am on 14th October 2016. The chief guest of the day was Shri. K. Jaya Kumar, Former Chief Secretary and Vice Chancellor of Malayalam University.

Various events like Voice of ILLUMINATTI, Advertisa, Persona, Treasure Hunt, etc were conducted for the students. Around 1000 students from various Colleges in and around



KERALA UNIVERSITY RANK HOLDERS 2016



Ms. Padma (S8 B T) had secured 1st rank for S5 & 2nd rank for S6 Exams.



Mr. Atul Sanjeev (S8 BT) had secured 3rd rank for S5 & 3rd rank for S6 Exams.



Mr. Rahul S.R (S6 ME) had secured 2nd rank for S3 Exams.



Mr. Sachin.S.B (S6 ME) had secured 1st rank for S3 Exams.

FIRST APJ ABDUL KALAM KERALA TECHNOLOGICAL UNIVERSITY BASKETBALL TOURNAMENT

First APJ Abdul Kalam Kerala Technological University Basketball Tournament was held at the indoor stadium, Mohandas College of Engineering and Technology on 19th and 20th November 2016. 14 teams from all over Kerala (6 women & 8 mens teams) participated in the tournament. Dr. G.P Padmakumar, Registrar Kerala Technological University inaugurated the program in the presence of Dr. Ashalatha Thampuran, Director Mohandas College of Engineering and Technology and Dr. Jayaraj David Sports Co-ordinator Kerala Technological University. Rajagiri College of Engineering and Technology won the women section and Mar Baselios College of Engineering and Technology won the men section.

TECHSYNOD'16



The 3rd National Conference on Recent trends in Computer Science and Engineering and Sustainability in Civil Engineering was held from 19th to 21st December 2016, organized by the Departments of Computer Science & Engineering, and Civil Engineering. Techsynod'16 was inaugurated by Sri. B. Ramani, Executive Director, CDAC, Trivandrum.

The Dept. of Civil Engineering had conducted workshop on "Rain water Harvesting" by Dr. Giridhar, HOD, Dept. of CE, JNTU, Hyderabad, followed by expert talks on "Sustainable Construction, The road ahead", by Mr. Jose Kurian, Rtd, CE, CPWD., which focused mainly on sustainable management of economic and social sustainability & "Steel Fibre Reinforced Geopolymer Concrete" by Prof. N. Ganesan, NIT Calicut.



The Dept. of Computer Science and Engineering had conducted workshop on 'Internet of Things' by Prof. V. Anantha Narayanan from IOT Research Lab, Coimbatore Campus, Amrita University, followed by Expert talks on 'Cloud Computing' by Prof. Chandrashekar K, from NIT Suratkal, 'Data Analytics' handled by Dr. Jaison Paul from Rajagiri School of Engineering and Technology, Kochi, 'Role of Interconnection Networks in Large Multicore Systems' by Dr. John Jose from IIT, Guwahatti.



All the 50 papers presented in the conference in both CSE and CE streams were published in Volume 5, Special Issue 1, International Journal of Innovative Research in Science, Engineering and Technology, December 2016, ISSN (Online) : 2319-8753 / ISSN (print) : 2347-6710.

CHRISTMAS CELEBRATION

Christmas Celebration was conducted on 22nd December 2016 in the Administrative Block with carol singing, followed by cake distribution.



CLUB ACTIVITIES

Workshop for 53 students was conducted on 18th February 2017. Experts from different areas were invited to conduct the workshop. The details are as follows :

- Drama : Mr. K. Sasikumar
- Literary : Ms. Vimala Menon
- Dance : Ms. Parvathy Kalakshetra
- Software : Mr. Vishnu H.
- Music : Ms. Sunitha Aby Varghese
- Painting : Mr. Chitrabanu
- Photography : Mr. Vishnu S Rajan
- NSS : Mr. Manu Mohan



CLEAN CAMPUS SAFE CAMPUS



"Clean Campus Safe Campus Protection Group" of the college is aimed at arresting the rising prevalence of substance abuse and other inappropriate social behavior among students in addition to maintaining a clean and green campus. NSS volunteers of college drives major group activities.

"Plastic free campus" drive was undertaken by students on Republic day 26/01/16 and on Deepavali day 29/10/16.

IEEESB MCET



The IEEE activities of MCET for the year 2016 was led by the Executive Committee with Prof. Rahul R. S. as the Branch Counsellor, Mr. Nandu R. as Chairman, Mr. Sharath Sabu. as Secretary, Mr. Gokul Nand G. N. as the Treasurer and Ms. Anju M. Mohan as the Vice Chairman.

WIE EMERGE

The event was held at MCET on July 3rd, 2016. A total of 100 students from various colleges participated in the event which include 45 IEEE members and 55 non IEEE members. The session was handled by Ms. Lekshmi N Menon, a designer and social entrepreneur and the afternoon session started with an ice breaker which was led by hub team members along with our volunteers, followed by a workshop on Prototyping tools and Techniques hosted by Mr.Puneet and Ms.Nisha from Fablab, Trivandrum.



The workshop was held at MCET on October 22nd and 23rd, 2016, conducted by CyberX Securities. A total of 45 participants from various colleges attended the workshop.

WIE STAR EVENT

The event was held at Kairali Vidhya Bhavan School, Nedumangad on February 5th, 2016. The session comprised of a technical talk along with a power point presentation on different carrier opportunities for the students of classes 9th and 11th. The session was handled by our former chairman Mr Madav Shankar R Warriar. The session was followed by an ice breaker by our volunteers.



Anuj M Mohan and Govind Gopal took classes for WIEDZA PROGRAMME held at St John's School, Pathanamtitta on July 12th, 2016.

Other activities include the following:

- A total of 51 students from our SB participated in ARIA'16 held at Marian College of Engineering, Trivandrum on March 12th, 2016.
- 5 volunteers from our SB attended the ALL KERALA STUDENTS CONGRESS(AKSC) held at MES College of Engineering, Kuttipuram on August 13th, 14th, and 15th, 2016.
- A total of 14 students from our SB participated in various workshops of TRAVANCORE HUB MEET held at Government College of Engineering, Barton Hill on August 27th and 28th, 2016. Adersh B and Amal Vinod from our SB won a cash prize worth Rs. 3000/- for ROBO craft workshop.
- Anuj M Mohan and Govind Gopal volunteered WIE IGNITE 2.0 held at College of Engineering, Adoor on 1st and 2nd, Oct. 2016.
- A.R. Krishnaendu, S8 BT had actively participated in the All India Student – Young Professionals – Women in Engineering Congress, held at LNM Institute of Information Technology, Jaipur, Rajasthan from 7th - 9th October 2016.
- Anuj M Mohan, Govind Gopal and Rithvik R Thampy volunteered KITES held at LBS Institute of Technology for Women, Trivandrum on October 21st, 22nd and 23rd, 2016. 3 other members from our SB attended various workshops

Our volunteer team participated in various Section, Link and Hub level events including the WIE STAR EVENT, WIEDZA PROGRAMME, ALL KERALA STUDENTS CONGRESS(AKSC), ROBOTICS AND EMBEDDED SYSTEMS WORKSHOP, TRAVANCORE HUB MEET, WIE IGNITE 2.0, KITES, ARIA'16 etc.

DEPARTMENT ASSOCIATIONS

MEXTREYAZ



The Mechanical Engineering Department Association "Mextreyaz" was inaugurated by Dr. Praveen Nair, Scientist & Head, CFD, Propulsion Research Group, ISRO on 20th August, 2016. Principal Dr. S. Sheela and HoD Dr. B. Sivasubramonian delivered presidential address and welcome speech respectively. Dr. Praveen Nair delivered a talk on the topic 'The Space mission', related to the history of space mission, development of NASA and its contributions to the world.

SPECTRA

SPECTRA'16 (Association of ECE) was inaugurated by Mr. Uma Maheshwaran R., Scientist/ Engineer, Project Director, GSLV, VSSC on 23rd August 2016. Mr. Uma Maheshwaran R. gave a talk



"India's space transport system evolution". A circuit debugging competition, Enquesta- quiz competition in Electronics and Communication, Electronic component identification competition was conducted on 23rd August 2016 for the students of the Department of EC. Certificates were issued for students who topped in Circuit debugging and quiz competition organised as part of SPECTRA 16.

ELIXIR



ELIXIR'16 (Association of BT&BCE) and IICe, MCET Student Chapter was inaugurated by Dr. T. Jayachandran, Deputy director, PRSO, VSSC on 25th August 2016, 2pm at CGPC Hall, MCET. Dr. T. Jayachandran delivered a talk on " Hemodynamic Simulation of Cerebral Aneurysms - Computational Fluid Dynamics".

ETERJA



ETERJA'16 (Association of EEE) commenced with the inaugural ceremony conducted on 26th August 2016. The event was inaugurated by Mr. C. M. Narayanan head, Energy Management Centre and he delivered a talk on "Supply chain and global energy management". The activities of ETERJA'16 also included competitions on paper presentation, quiz, debate, essay writing, collage etc. The motto of ETERJA'16 is "Energy conservation and management".

SCULTURA

SCULTURA'16 (Association of CE) was inaugurated by Dr. K. R. S. Krishnan, Former Director of HLL Lifecare Ltd. on 29th August 2016. The Chief Guest Dr. K. R. S. Krishnan delivered a talk on the relevance of Civil Engineering on the infrastructural development of the country.



ACES

ACES '16 (Association of CSE) was inaugurated by Mr. B. Ramani, Executive Director, C-DAC on 31st August 2016. Mr. B. Ramani gave a talk on "Recent Trends in Cyber Security". Dr. Sheela Principal, MCET presided over the function. Dr. Jayaprakash P, HOD, Dept of CSE gave a welcome address to all dignitaries.



A Technical Quiz competition for the members of ACES was conducted on 29/8/16. Team from S7 CSE (Manesh and Amar) got the first prize and team from S3 CSE (Manesh and Kirandas) won the second prize.

ACES, also organized a technical talk on "Cyber security and Ethical Hacking" on 9th February 2017. Mr. Rahul from UST Global and Mr. Varun had presented their views on the above specified topic.

ACES organized an awareness program on FOSS (Free Open Source Software) for S4 students by Nandu R. (S8 CSE, ACES Secretary) on 13th February 2017.

MASTEC



MASTEC'16 (MCA Students' Association) was conducted on Sept-05-2016 at CGPC hall. The chief guest for the event was Mr. Dileep C., Group Manager HR(Training & Development, IBS Software Services).

CGPC



Career Guidance & Placement Cell (CGPC) was established with a view of orienting and training the students for placement, higher studies, or becoming young entrepreneurs. CGPC also facilitates the recruitment process and aims to provide 100% employment to the eligible students.

Major programs conducted by CGPC:

- Softskills training program for 5th semester students, covering topics like communication skills, written communication, group discussion, goal setting etc.
- Finishing School for final year students which includes training to face the recruitment process. This covers areas like communication skills, aptitude tests, group discussions, resume preparation, guidance in facing interviews, model interview etc.
- Facilitating placement for the students of final year.

MCET has built and nurtured very cordial relationship with many major companies. As a result, our students have been receiving excellent opportunities. Those students who get placement through the CGPC help the unit to achieve its objectives, by their effort and contributions over the last many years. As result of continuous effort, our college has scaled new height in placing the students.

Placement Status of the year 2016-17:

Tata Consultancy Services (TCS) recruits regularly from MCET. Other major recruiters are IBS, Wipro, Speridian, Allianz Cornhill, HCL, Sutherland, Assuretech, SunTech, South Indian Bank, Federal Bank etc. 156 placements was achieved for 2012-2016 batch.



ED CELL

The Entrepreneurship Development Cell of MCET is functioning from 2007 under the ED cell of Kerala University with an objective to give an incentive to the students to start their own entrepreneurial ventures. More than 7 companies have started their venture from this platform including Doodle Security, Synoid Bioscience, Ser-Q Technologies, Hello Infinity, K & T Design Engineering Solutions, Zaagpro, Cerca Trova Technologies etc.

1. ED Cell of MCET organized a workshop on Personality Development for the students of MCET on 22nd Jan., 2016.

- 5 students team attended the startup i2i program at SCT College of Engineering in association with Kerala Startup Mission held on 20th and 21st Feb., 2016.
- 6 students successfully completed the 4 day training program on Personal Entrepreneurial Characteristics held at KIED, Kalamaserry from 23rd to 26th Feb., 2016. Aathira N & Adithya Sankar bagged the best performer awards.



- Organized a one day workshop on IDEATION in association with Kerala Start up Mission on 20th March 2016. 40 students from various Engineering Colleges had participated in the workshop.
- Organized a Three day national workshop on entrepreneurial skills and B-Plan competition from 13th to 15th July 2016. 13 teams from various Engineering Colleges of South India had participated in the workshop.
- Organized an Expert talk and live interaction with Mr. Lakshmanan R K, Fellow CII on 20th July 2016.
- Organized a Product development Worksoop for the S3 students of MCET on 22nd July 2016. Students were trained on various stages of product development, idea transferring and basic design concepts.
- Organized an Idea pitching Workshop for the S1S2 students of MCET on 25th July 2016.



- Organized a Workshop on Rapid Prototyping & 3D Printing for the students of MCET as a part of know the technology scheme under EDC-MCET on 8th Sept. 2016. More than 50 students had participated.
- Organized a Workshop on Design Thinking conducted for the first and third semester students of MCET on 21st Sept. 2016. The workshop was designed to impart design thinking capabilities among the students to workout Engineering problems.
- EDC MCET conducted a two day Workshop & Faculty Development Program on 29th, to 30th Oct. 2016. Ms. Jancy Jose, founder CEO of Strava Technologies TVM inaugurated the Workshop & FDP. Students got training & exposure regarding Idea Development, Product Development, Stress Management, Direct Marketing etc.

AAMCET

The Alumni association of Mohandas College of Engineering & Technology is a registered association under the 12th Travancore - Cochin Literary, Scientific and Charitable Societies Registration act.



Alumni Induction Programme for outgoing B.Tech students was organized on May 12th 2016 in the college auditorium and also for outgoing M.Tech students on 12th August 2016. Alumni ID cards and mementos were distributed to the inducted alumni members. The meeting was attended by HODs of various department and faculty members of MCET.



This year Annual General Body Meeting of MCET was conducted on 08 /10/2016 at mini Auditorium, Mohandas College of Engineering. The tenth annual general body meeting of Alumni Association of Mohandas College of Engineering was inaugurated by Sri. G. Mohandas, Chairman, VNGP Trust by lighting the lamp.

University second rank holder Aswathy Chandran of Electronics and Communication branch was awarded with gold medal by chairman Shri G Mohandas.

University third rank holder Ms. Vandana Premnath of biotechnology and biochemical branch was awarded with gold medal by chairman Shri G Mohandas.

Sl. No.	Award/Endowment	Instituted by	Purpose	Award Winner
1	Smt. Sarasija Thampuran Memorial Award	Dr. Ashalatha Thampuran	Best outgoing student	Madhav Shanker R. Warriar, CSE
2	Dr. Sutapa Sen Endowment Award	Dr. S. Dasgupta	Best outgoing B TECH student of EEE	Reshma Chandramohan, EEE
3	Sri. Balaram Gopalan Memorial Award	Smt. Sreedevi	Highest marks in Engineering Maths	Anulekshmy. G., ECE Renjith S., ME Jancy Johnson, EEE
4	Mr. Dileep Endowment Award	Mr. Dileep	Student with good technical skill in EEE	Vineeth V, EEE
5	Mr. Muraleedharan Nair Endowment Award	Mr. Muraleedharan Nair	Student with highest GPA upto S6	Renjith S., ME
6	Shri. Sundaran Endowment Award	2011-2015 batch students	Student with good performance in S1 S2 workshop	Neethu R Krishnan, ECE
7	Smt. Sudha Dasgupta Endowment Award	Dr. S. Dasgupta	Best outgoing M Tech student of EEE	Parvathy.P, EEE
8	Smt. Kaushalya Vati Endowment Award	Mr. Premjit Singh	Best outgoing female student	Atheena A.S., CE

Academic proficiency awards to the students with highest overall GPA were given to the students from each branch on the occasion.

The official function was followed by cultural programs and games. Lunch was arranged for all. Alumni Executive Committee Meeting is regularly conducted once in two months.



CENTRAL LIBRARY



Our central library collection has been growing steadily. Now we have a total of 29725 books, 140 journals and 1800 CD/DVD's. We have access to over 1500 e-journals through DELNET and IEEE Periodicals Package (ASPP). With a view to promote general reading among students, we have recently added a good number of contemporary fiction books also to our collection and conducted a display of these books in our library.

NSS

Our NSS unit has achieved sanction for another unit on 27th June 2016, and the 2 units which include around 300 volunteers are actively participating in various social activities conducted by the units.



NSS Unit MCET lent a helping hand to the tiny tots at three LP schools in and around Anad. The students from Govt. LPS Chullimanoor, Govt. LPS Kolla and Lourde Mount School Chullimanoor were gifted educational kits during Pravesanothsavam held on 1/6/2016. Director MCET, Dr. Ashalatha Thampuran, Principal Dr. S. Sheela and HOD Mechanical Dept. B Sivasubramonian distributed kits at 3 venues. The NSS unit also sponsored school bags for 19 students from poor economic backgrounds.



NSS unit MCET observed NSS day 2016 by visiting Govt. Care Home Pulayanarkotta on 24/9/2016. The unit donated 110 thermos flask for the inmates along with a carrom board and two chess boards for recreation. The unit also sponsored the day's lunch for the inmates and ate alongside them. The cultural programme presented by the unit had enthralled everyone.



The annual camp 2016 was held at SNVHSS Anad. The camp was inaugurated by Shri. Anad Suresh, Panchayath President Anad. NSS volunteers took up renovation of operation theatre and wards of SAT hospital, Thiruvananthapuram as their main project. The campers also renovated equipment of Community Health Center, Panagappara. During the course of camp volunteers created awareness about cashless economy and digital transactions amongst community members at Anad and SPC Cadets of SNVHSS.



The organic farming, which has fund support from Govt. of Kerala was inaugurated by Shri. G Mohandas the Chairman V.N.G.P. Trust, Dr. Ashalatha Thampuran, Director and Dr.S.Sheela, Principal, Smt. Deepa, Agricultural officer Anad were present. The farming makes use of drip irrigation system to maximize yield and reduce water consumption. Many varieties of vegetables such as brinjal, cucumber, salad cucumber, ladies finger, cabbage, cauliflower, spinach, tomato are grown organically. The hard work put in by the volunteers of NSS Unit MCET produced organic, pesticide-free vegetables which are consumed at college hostel, canteen and also sold to staff and students.

DEPARTMENT OF BIOTECHNOLOGY AND BIOCHEMICAL ENGINEERING

Seminars /Courses organised by the Department BCS'16

A one day National Seminar "Novel technologies for Sustainable development" was conducted on 20th Feb. 2016. The Seminar was inaugurated by Dr. Sriram Devanathan, Head, Centre of Excellence in Advanced Materials and Green Technologies and Head, Department of Chemical Engineering and Material Sciences, Amritha Viswa Vidhyapeetham, Coimbatore. Dr. Sriram Devanathan delivered the Key Note lecture on "Technologies for Sustainable Development – an Orientation". Dr. Krishnakumar delivered a talk on the topic "Bio & Eco Engineering approach for sustainable development". In the Technical Session II seven papers were presented by the faculty of Department of Biotechnology and Biochemical Engineering, MCET.

Paper Presentations

- Prof. Sumarani.G.O had presented a research paper entitled "Studies on Acalypha indica for the Phytochemicals, Antimicrobial Activity and Synthesis of Silver Nanoparticles", in the International Seminar on Recent Trends in Cytogenetics and XIII Conference of the Society of Cytologists and Geneticists.
- Prof. Akhil T Nair presented a paper titled, "Development and illustration of Genetic Algorithm for identifying model parameters for a bowl mill", at BCS'16.
- Prof. Shiji Jameson, presented a paper titled, "Study on Inhibition of Apple Polyphenol oxidase using Sodium chlorite and amino acids: L-Cystine and L- Tyrosine", at BCS'16.
- Prof. Sumarani G O, presented a paper titled, "In vitro production of Bacoside from Bacopa monnieri L", at BCS'16.
- Dr. Roopa P presented a paper titled, "Isolation, characterization and identification of Diesel engine oil degrading bacteria from garbage soil and comparison of the bioremediation potential", at BCS'16.
- Prof. Punnia Prasad presented a paper title, "Isolation of Biosurfactant producing microbes from petroleum sludge and the treatment of oil-contaminated soil", at BCS'16.
- Dr. Shalini A Nair presented a paper titled, "Isolation and Characterisation of Xylanase producing bacteria from the environment", at BCS'16.
- Prof. Ullas Krishnan presented a paper titled, "Modelling, Simulation and Optimization of Double pipe Heat Exchanger using CHEMCAD software", at BCS'16.

Paper Publications

- Dr. Roopa P, "Isolation, characterization and identification of diesel engine oil degrading bacteria from garage soil and their bioremediation potential.", International Journal of Pharma and Biosciences., Vol. 7(3): pp (B) 697 – 705, 2016.
- Dr. Roopa P. and Mr. Athul Sanjeev, "In Vitro Isolation of Microorganism For Bioremediation of Monocrotophos Pesticide", Imperial Journal of Interdisciplinary Research (IJIR), Vol.2, Issue 11, 2016.

Student Achievements and Activities

- Mr. Athul Sanjeev, Mr. Akshay M. Menon, Ms. Nija R. J., Ms. Swathy J., Ms. Seethu A. N. and Ms. Surya V. participated in the paper presentation for 19th International Student's Convention at VIT university.
- Ms. Surya.V, "The effect of prenatal exposure to nicotine on pituitary-testicular axis and diminishing steroidogenic acute regulatory protein expression in albino rats", Imperial Journal of Interdisciplinary Research (IJIR), Vol.2, Issue 11, 2016.

- Mr. Athul Sanjeev, Mr. Akshay M Menon, and Ms. Surya V participated in the paper presentation for RAASA -16 (Dept of chemical engineering) at TKM College of Engineering.
- Mr. Athul sanjeev secured 1st prize for paper presentation of National level Symposium on Advances in Bioscience and Bioengineering (Equilibria'2016) at SCT College of Engineering, Tvpm.
- Mr. Athul Sanjeev, Ms. Surya.V, Ms. Feba K Roy Ms. Kavyamol K Nair, Ms. Rinta Ann Mathew, Ms. Sangeetha A S, Ms. Swathy J S and Mr. Akhil M S had participated in various technical events of ISTE State Convention at NIT Calicut.
- Ms. Surya.V, had won 2nd prize for paper presentation of Agneya'17 conducted at GEC, Bartonhill.

DEPARTMENT OF CIVIL ENGINEERING

Paper Presentation and Publications

- Prof. Megha M had presented a paper titled "Comparison of Performance of Point of Use Water Treatment Systems Using Various Low Cost Materials for Production of Drinking Water" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Remya R S had presented a paper titled "Study on Effect of Corrosion in Blended Cements " at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Veena M had presented a paper titled "Strengthening of RC Columns using Ferrocement Jacketing" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Sukanya R V had presented a paper titled "Hazard Line Mapping of Mahanadi Delta Odisha using Remote Sensing and GIS" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Aparna Madhu had presented a paper titled "Study on The Biomechanical Causes and Effects of Abnormal patterns of Human Gait" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Gopika Mohan had presented a paper titled "Cyclic Behaviour Of R.C Columns with various Longitudinal Reinforcement Configurations" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Sreegowri G R had presented a paper titled "Impact on Mechanical Properties of SFRC for Cement Replacement using Fly Ash" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Aparna S R had presented a paper titled "Behaviour of Strip Footing Supported on Stressed Encapsulated Granular Trenches" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Karuna P had presented a paper titled "3D Groundwater Modelling for Sustainable Resource Management – A Case Study" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.

- Prof. Kiran S R had presented a paper titled "Impact of Rainfall on Rice production of India" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.
- Prof. Vishnumaya K V had presented a paper titled "Study on Effect of Corrosion in Blended Cements" at Techsynod'16 and has published the same in the International Journal of Innovative Research in Science, Engineering and Technology.

Student Achievements and Activities

- Ms. Anuja J.S. had secured 2nd prize for Solo Singing conducted at both Musaliar College of Engineering and ACE College of Engineering, Tvpm.
- Mr. Nadeem N S had secured 1st prize for Bridge making conducted by ACE College of Engineering, Tvpm.
- Mr. Ashik stood 1st for CAD Design conducted by ICI Chapter, CET Trivandrum.
- Mr. Aswin Gokul had secured 3rd prize for Table Tennis conducted by University Championship, Men's team.
- Mr. Varun J had secured 1st prize for Dare to Dub, Vypollil Samskrithi conducted by AJ college.
- Ms. Drisya Sajeev, Ms. Greeshma S.V. and Ms. Aparna S. had participated & secured 2nd prize for Fire Walker of Yagnadhruva'16 conducted by Lourdes Matha College of Engineering & Technology, Tvpm.
- Mr. Ashik stood 1st for Truss Making event of Equinox'16 conducted at Lourdes Matha College of Engineering & Technology, Tvpm.
- Ms. Amritha S had secured 2nd prize for Spot the synchro of Equinox'16 conducted at Lourdes Matha College of Engineering & Technology, Tvpm.
- Mr. Arshed Ahamed stood 1st for Bridge making event of Equinox'16 conducted at Lourdes Matha College of Engineering & Technology, Tvpm.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Seminars /Courses organised by the Department RACEIT'16

The National conference of Computer Science and Engineering and Information Technology Department was conducted on 20th February 2016. The National Conference was inaugurated by Dr. Sriram Devanathan, Head, Centre of Excellence in Advanced Materials and Green Technologies and Head, Department of Chemical Engineering and Material Sciences, Amritha Viswa Vidhyapeetham, Coimbatore. Distinguished speakers Dr. Manoj B. S, Associate Professor, Dept. of Avionics, IIST delivered the key note address on the topic "Cognitive Technologies, CogNet" and Mr. Bhadrans V K, Associate Director, CDAC delivered a lecture on the topic "Cyber Forensics and awareness about the growth of Cyber Crimes" in the present world respectively. 2 papers were presented from external colleges and 12 papers were presented by the faculty of Department of Computer Science and Engineering, MCET.

Principles and Practices of Parallel Computer Architecture

A three day FDP programme was organized by Department of Computer Science and Engineering from 7th July 2016 to 9th July 2016 on the topic "Principles and Practices of Parallel Computer Architecture". Dr. John Jose from IIT Guwahati presided over as a guest speaker and also he delved into



the topic of parallel computer architecture. other eminent faculty members such as Mr. Binu A. from RSET, Kochi who discussed on topics such as Exploiting Data level parallelism by GPUs, CUDA and Advanced GPU Architecture and Mr. Febin. P. Jacob from College of Engg, Thrikaripur gave hands on experience on NoC simulator Booksim. The audience comprised of Faculty of MCET and Faculty members from IT, CSE and EC branches of AICTE approved Engineering Colleges.

Paper Presentations

- Prof. Thamizharasi presented a paper titled "An Image Enhancement Technique for Poor Illumination Face Images" at ASISA 2016.
- Prof. Nishadha S G and Prof. Shalini L presented a paper titled "Sign board Detection and Path tracing of Vehicle using Image processing methods" at RACEIT'16.
- Prof. Thamizharasi A. presented a paper titled "Assessment of Leaf Spot Disease In Banana Using Image Processing" at RACEIT'16.
- Prof. Remya R.S and Prof. Harsha H Nair presented a paper titled "Reversible Data Hiding by Image Division Method" at RACEIT'16.
- Prof. Prathibha S Nair presented a paper titled "A Comparative Analysis of Swarm Intelligence Techniques for Weather Forecasting" at RACEIT'16.
- Prof. Hridya Shobanam and Prof. Soumya Kumari L K presented a paper titled "A Study of Solutions for Addressing Cold Start In Recommender Systems" at RACEIT'16.
- Prof. Annie R Das and Prof. Aswathy R S presented a paper titled "Analytical Study of Digital Image Forgery Detection by SVM and Sparse Classifier" at RACEIT'16.
- Prof. Jisha S presented a paper titled "Buffer Overflow Counter measures: A Categorized Survey Report" at RACEIT'16.
- Prof. Thamizharasi presented a paper titled "A Novel Illumination Normalization Technique for Enhancing Face Images with uneven Illumination" at IETE-ICRA 2016.
- Prof. Rashmi S Nair and Prof. Reji P.I. presented a paper titled "Survey on Skin Cancer Detection Techniques using Image Processing Techniques" at RACEIT'16.
- Prof. Apsara A Pillai and Prof. Vidya C A presented a paper titled "Forensic Digital Image Authentication using Incongruity In Motion Blur" at RACEIT'16.
- Prof. Binu Chandran R. and Prof. Ganga S presented a paper titled "Improved Broadcasting Adv for WSN" at RACEIT'16.
- Prof. Caroline Mary and Prof. Thamizharasi A. presented a paper titled "A Study on Black Pepper Leaf Disease Identification Using Image Processing" at RACEIT'16.

- Prof. Rashmi S. Nair and Prof. Reji P.I. presented a paper titled "Survey on Skin Cancer Detection Techniques using Image Processing Techniques" at RACEIT'16.
- Prof. A.Thamizharasi and Prof. Caroline Mary presented a paper titled "Detection and Assessment of Leaf Spot Disease in Black Pepper Leaf" at Techsynod'16.
- Prof. Soumya Kumari L K, Prof. Apsara A Pillai, Prof. Prathibha S Nair, Prof. Hridya Sobhanam and Prof. Binu Chandran R attended a 3 day workshop on Mathematics conducted by KTU.
- Prof. Rashmi S Nair attend Faculty Development Programme on "Advanced Graph Theory" for six days at LBS Institute of Technology For Women, Poojappura, from 6th - 11th June 2016

Paper Publications

- Prof. A.Thamizharasi and Dr. Jayasudha J.S., "An Illumination invariant face recognition using 2D Discrete Cosine Transform and CLAHE", International Journal of Computer Science & Information Technology (IJCSIT), Vol.8, No.3, pp.45-53, June 2016, ISSN: 0975-4660.(Kerala University indexed journal)
- Prof. Reji PI "A Secure Binary Image Data Hiding and Comparison Technique", International Journal Of Scientific & Engineering Research (IJSER), Volume 7, Issue 7, Jul 2016.
- Prof. A.Thamizharasi and Dr. Jayasudha J.S., "A Hybrid method for face recognition using LLS CLAHE method", International Journal of Computer Applications, Vol. 152 - Number 7, pp. 33-37, October 2016, ISSN:0975-8887.
- Prof. Prathibha S Nair "Comparison Of Image Search Reranking Techniques" IJCS, Apr. 2016.
- Prof. A.Thamizharasi and Mr. Shyju S., "An Automated System for Indian Currency Denomination Identification", International Journal of Innovative Research in Science, Engineering and Technology, Volume 5, Special Issue 1, December, 2016, ISSN (Online): 2319-8753 ISSN (Print): 2347-6710.
- Prof. Reji PI and Prof. Rashmi S Nair, "A Survey On Digital Signature Schemes", Techsynod'16, IJRSET.
- Prof. A. Thamizharasi and Dr. Jayasudha J.S., "An Illumination Invariant Face Recognition by Selection of DCT Coefficients", International Journal of Image Processing (IJIP), Vol.10, Issue 1, pp.14-21, March 2016, ISSN: 1985-2304.(Kerala University indexed journal)
- Prof. A. Thamizharasi and Dr. Jayasudha J.S., "An Illumination invariant Face Recognition by enhanced contrast limited Adaptive Histogram Equalization", ICTACT Journal on Image and Video Processing, Vol. 06, Issue 04, pp.1258-1266, May 2016, ISSN: 0976-9102.
- Prof. Reji PI "An Evaluation of Automatic Vehicle License Plate Recognition Algorithms and Techniques", International Journal of Control Theory and Applications (IJCTA), Volume 9, Issue 7, 2016.
- Prof. A.Thamizharasi and Dr. Jayasudha J.S., "Face Recognition of Enhanced Contrast Limited Adaptive Histogram Equalization using Feature Extraction Method", International Journal of Engineering and Advanced Technology (IJEAT), Vol.6, Issue 1, October 2016, ISSN:2249-8958.(Kerala University indexed journal).
- Prof. A.Thamizharasi, Prof. Caroline Mary and Dr. N. V. Radhakrishnan, "Detection and Assessment of Leaf Spot Disease in Black Pepper Leaf", International Journal of Innovative Research in Science, Engineering and Technology, Volume 5, Special Issue 1, December, 2016, ISSN (Online): 2319-8753 ISSN (Print): 2347-6710.
- Dr. P. Jayaprakash, Prof. K. Gangadharan, Prof. A. Thamizharasi, Prof. Prathibha S. Nair, had attended the National Workshop on "Realising Anything as a Service in IoT : Technologies and Standards" at C-Dac, Trivandrum on March 3rd, 2017.

Student Achievements and Activities

- Ms. Preeja Priji and Prof. Rashmi S Nair, "A Survey on Multiple Face Detection and Tracking in Crowds" IJIE, Volume 7, Issue 4, Dec. 2016.
- Ms. Preeja Priji and Prof. Rashmi S Nair "An overview Survey on Various Video compressions and its importance", IJAEMS, Vol-2, Issue-10, Oct- 2016.
- Mr. Shyju S & Prof. Prathibha S Nair, "Survey on an Internal Intrusion Detection and Protection System by Using Data Mining and Forensic Techniques", International Journal of Advanced Engineering, Management and Science (IJAEMS), Vol-2, Issue-12, 2016.
- Ms. Kavitha S K and Prof. Soumya Kumari L.K., "Image Retrieval :A Survey" IIR, Volume 2, Issue 12, 2016.
- Ms. Anju G R and Prof. Karthik M, "A Survey on Multiple Face Detection and Tracking in Crowds" IJIE, Volume 2, Issue 12, 2016.
- Mr. Shyju S and Prof. Thamizharasi A, "Indian Currency Identification Using Image Processing", International Journal of Advanced Engineering, Management and Science (IJAEMS), Vol-2, Issue-5, May-2016, pp.344-349, ISSN: 2454-1311, Infogain Publication.
- Ms. Vipina Das M.J. and Prof. A.Thamizharasi, "Detection and Grading of diseases in Banana leaves using Machine Learning", International Journal of Scientific & Engineering Research, Vol. 7, Issue 7, July-2016, pp. 916-923, ISSN 2229-5518.
- Lakshmi N Pillai, Gowri Parvathy S, secured 2nd in Junkyard wars- model creating event conducted by NIT Calicut.
- Ashik M Hussain, presented a paper on R"emote Capturing of Satellite" at ISRO Valiyamala, Space week 2016.
- Karan M, secured first prize in gaming event Counter Strike GO, at College of Engineering Attingal.
- Karan M, secured first prize in FIFA, gaming event at College of Engineering Attingal.

Outreach Programmes conducted by the Department



Department of Computer Science and Engineering had conducted a one week Workshop on "Computer Fundamentals and Applications Awareness Programme" for the students of SNVHSS School, Anad, from 4th to 8th April 2016. Hands on session on applications like word processing, spreadsheets and presentation were given.

Courses / Workshops attended by

Faculty Members

- 24 faculties from CSE department had attended Faculty Development Programme on "Arduino and Raspberri Pi-2" at C-DAC, Vellayambalam, from 27th- 30th June 2016.
- Prof. Annie R Das and Prof. Gayathri Nair P. attended a 3 day workshop on FOSS lab conducted by KTU.



A one day workshop was conducted for +1 and +2 students of Kairali School, Nedumangad on "Preparedness and Awareness in choosing Engineering professional Courses" on 7th Oct. 2016.



Department of Computer Science and Engineering organized a one day programme on "Computer Fundamentals and Application Awareness Programme" for 21 selected students of Kairali Vidya Bhavan, Nedumangad,



Department of CSE organized a one day community outreach programme "Computer Fundamentals and Application Awareness Programme" on 16th February 2017, for 16 selected students of SNVHSS, Anad, Nedumangad.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Seminars / Courses organised by the Department

A one day Workshop on LaTeX was conducted for M4 students of EEE, ECE and CSE branches on 20th March 2016. Ms. Jyothirmayi C. J., Assistant Professor, EEE handled the sessions on developing a Research paper using LaTeX. All the participants were given Hands-on Workshop on LaTeX.

Paper Presentation and Publications

- Prof. Divya S Nair presented a paper titled "Standalone Hybrid Power Generation- Control Technique for Dump Power" International Conference on Energy Efficient Technologies for Sustainability-2016 conducted at St.Xavier's Catholic College of Engineering, Nagercoil, Tamil Nadu.
- Prof. Dr. Lathika B.S "A comparison of cophase and advanced cophase traction power supply system", in the Proceedings of Prabandh'16.
- Prof. Sabin H S "Grid current compensator for grid connected PV under non linear local load", Proceedings of
- Prof. Mrudula Murukan G "Robust adaptive control of a three phase inverter for a standalone distributed generation system", Proceedings of Prabandh'16.
- Prof. Subin Koshy "Effective fault detection and identification in DC distribution system", Proceedings of
- Prof. Divya S Nair, "Coordination of Protective Relays by Genetic Algorithm in an interconnected Power System" Journal of Research in Computer Science, Engineering & technology, Issue 4, Jan. 2016

- Prof. Sabin H S "Intergation of wind and wave power generation fed to an A C power grid", Proceedings of Prabandh'16.
- Prof. Lekshmi Nair K B "Power quality improvement of distribution system using shunt hybrid power filter-TCR with PI fuzzy control", Proceedings of Prabandh'16.
- Prof. Divya S Nair "Nine switch inverter", Proceedings of Prabandh'16.
- Prof. Priya Lenin "Photovoltaic based efficient control in dual inverter fed open end winding induction motor", Proceedings of Prabandh'16.
- Prof. Prabhsimran Singh "Optimal power generation in thermal power plant by considering environmental and economic objective", Proceedings of Prabandh'16.
- Prof. Prameeda Mohan "Islanding detection for distributed power generators using islandin search sequence method", Proceedings of Prabandh'16.
- Prof. Saranya Natarajan "Direct active and reactive power control of DFIG based wind energy conversion system without rotor position sensor", Proceedings of Prabandh'16.
- Prof. Tintu.V.R "Load frequency control of a DG interconnected power system", Proceedings of Prabandh'16.

Courses / Workshops attended by Faculty Members

- Prof. Saranya Natarajan attended a One day workshop on Preparatory Practices for Accreditation with outcome based education" conducted by IEEE Malabar subsection (National Institute of Electronics & Information Technology, NIEUT Calicut) on 28th May 2016.
- Ms. Lekshmi Nair K B and Prof. Divya S Nair attended a One day workshop on " Kerala State Energy Conservation Awards 2016 Sensitization Programme and Best Practices Case Sharing Workshop" conducted by Energy Management Centre - Dept. of Power, Government of Kerala, on 29th June 2016.
- Dr. Lathika B.S and Prof. Prameeda Mohan attended a one day workshop on " Kerala State Energy Conservation Awards 2016 Sensitization Programme and Best Practices Case Sharing Workshop" conducted by Energy Management Centre - Department of Power, Government of Kerala, on 20th July 2016.
- Dr. Lathika B.S attended a course on "More effective compliance with the post act : Perspectives and insights for ICC Members, Decision Makers and People who manage teams" conducted by Indian Women Network(IWN) and Confederation of Indian Industry(CII) at Technopark, on 15th July 2016.
- Prof. Jyothirmayi C J attended a Faculty Training programme on "Life skills" conducted by Yonnus College of Engineering, Kollam, from 18th – 22nd July 2016.
- Prof. Priya Lenin and Prof. Prameeda Mohan attended an Industrial Training programme on "Electrical Testing" conducted by HLL Life Care Ltd., from 9th – 24th Dec. 2016.

Outreach Programmes conducted by the Department

Electrical and Electronics Department has conducted a Public awareness programme on Electrical Energy Management in Household Appliances on 2nd October 2016 at Kollai L.P.S., Nedumangadu, Tvm. Mr. Suresh , Accredited Energy



Cell, Sreekarayam, Trivandrum has given a lecture on electricity saving methods in household appliances. 106 members from 100 kudumbasree units had participated in the event.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Seminars /Courses organised by the Department

The Electronics and Communication Department is always keen to keep the faculty and students abreast of ever changing technology. A Training Programme on Applied Electromagnetic theory and Optical Communication was conducted for the faculties on 11.07.2016 & 12.07.2016 by Dr. R. Ibrahimkutty, HOD Dept. of ECE, MCET and Dr. N. Vijayakumar, HOD, Dept. of ECE, Barton Hill.

Paper Presentation and Publications

- Prof. Nisha P V & Ms. Lakshmi C Raveendran of M-Tech published a paper on "SMS Based School Children Safety Enhancement And Tracking System" in the journal IARJSET.
- Prof. Nisha P V published a paper on "Post Stroke Rehabilitation Using Brain Computer Interface and Motor Imagery" in the journal IJMTEs.
- Prof. Manju G Suresh & Ms. Athira Vijayan of M-Tech published a paper on "Wearable Sensors for Animal Health Monitoring using Zigbee" in the journal IARJSET.
- Prof. Poornima Indusekhar & Ms. Athira K H of M-Tech published a paper on "A Smart Green House" in the journal IARJSET.
- Prof. Deepa D & Mr. Arun Gopi of M-Tech published a paper on "A Novel Minimal Path Algorithm for the Extraction of Curve Like Structures" in the journal IARJSET & ISEES.
- Prof. Nissa Surling S N & Ms. Anjana Lakshmi K G of M-Tech published a paper on "Image Processing for Analyzing Ice Floes And The Floe Size Distributions" in the journal IARJSET.
- Prof. Renjitha G Nair & Ms. Apsana S of M-Tech published a paper on "Voice Controlled Wheelchair using Arduino" in the journal IARJSET.
- Prof. Nisha P V & Ms. Aarathi Kumar of M-Tech published a paper on "Upper Limbs and Knee Rehabilitation of Post Stroke Patients using Brain Computer Interface and Motor Imagery".
- Prof. Achu Govind K & Ms. R Anju S of M-Tech published a paper on "Fuzzy Scheduler with HS Algorithm Based Wind Energy Conversion".
- Prof. Achu Govind K R & Mr. Anoop R Nair of M-Tech published a paper on "A Novel Design Technique for Adaptive Control of Parallel Manipulator using Gravitational Search Algorithm".
- Prof. Devika R G & Ms. Aparna Ratheesh of M-Tech published a paper on "Advanced Algorithm for Polyp Detection using Depth Segmentation and Density Estimation In Colon Endoscopy".
- Prof. Poornima Indusekhar & Ms. Arathy V R of M-Tech published a paper on "Processing Of Wrist Pulse using Sparse Classifier for Health Monitoring".
- Prof. Sandhya S & Ms. Dhanya F E of M-Tech published a paper on "Monte Carlo Simulation of Positron Emission Tomography Tumor Images using MRI and CT Images".
- Prof. Reshmi S R & Ms. Geethu M of M-Tech published a paper on "Intelligent Controller for Flexible Ball Screw for Tracking and Vibration Suppression".
- Prof. Sandhya S & Ms. Geethu Vijayan of M-Tech published a paper on "Shadow Detection and Reconstruction of Satellite Imagery using Niblack Segmentation and Naive Bayes Classification".
- Prof. Reshmi C S & Ms. Pooja Soman of M-Tech published a paper on "A Novel Algorithm for Earlier Down Syndrome Detection in Foetal Ultrasound Images".

- Prof. Nissa Surling S N & Prof. Reshmi S R of M-Tech published a paper on "Inter Vehicular Distance Regulation System Using Aco Algorithm".
- Prof. Deepa D & Prof. Revathy Nair M of M-Tech published a paper on "Real Time Human Detection and Tracking System for Defence Application".
- Prof. Lekshmi P & Ms. Tany F Thomas of M-Tech published a paper on "Water Level Control in Nuclear UTSG Based on Differential Evolution Algorithm".
- Prof. Lekshmi P & Ms. Santhi Priya G of M-Tech published a paper on "Performance Enhancement of Spark Ignited Engines using NSGA Optimization".

Courses / Workshops attended by Faculty Members

- Prof. Reshmi C S, Prof. Amritha Mary A S, Prof. Deepa D, Prof. Poornima Indusekhar, Prof. Manju G Suresh and Prof. Anju S. Mohan attended a STTP on "Image & Speech Processing with Practical Applications" conducted by Mar Baselios College of Engineering & Technology, Nalanchira, from 9th - 14th Jan. 2017
- Prof. Lekshmi V, Prof. Renjitha G. Nair, Prof. Asha T.S, Prof. Deepa D, Prof. Jayapradha T.U, Prof. Aswathy Madhu, Prof. Anju S Mohan and Dr K Prescilla, attended a STTP on "Essentials in Engineering Mathematics" organized by CET School of Management, from 28th Nov - 3rd Dec. 2016.
- Dr. K. Prescilla, Prof. Lekshmi V, attended a STTP on "Embedded Systems" organized by Technopark, TCS Campus, during Oct. 2016.
- Prof. Nissa Surling S N attended a STTP on "CMOS, Mixed Signal and Radio Frequency VLSI Design" organized by IIT Kharagpur from 19th- 23rd Sept. 2016 for Coordinating the same in MCET.
- Prof. Devika R G, Prof. Asha T S, Prof. Amritha Mary A S and Prof. Nisha P V, attended Two Days workshop on "Applied Electromagnetic Theory and Optical Communication" organized by Mohandas College of Engineering and Technology, Anad, on 11th & 12th July 2016.
- Prof. Sandhya S, Prof. Aswathy Madhu, attended a Faculty Development Program on "Digital Filter Design- Theory and Practice" organized by College of Engineering, Tvpm., from 25th - 30th July 2016.
- Prof. Nissa Surling S N, Prof. Jayapradha T U, attended a workshop on Faculty Development Program on "Biomedical Instrumentation and Image Processing" organized by TKM College of Engineering, from 15th - 21st June 2016.
- Prof. Lekshmi V, attended a workshop on Faculty Development Program on "Embedded Systems" organized by Bishop Jerome Institute, from 16th - 17th June 2016.
- Prof. Nisha P V, Prof. Renjitha G Nair, Prof. Asha T S and Prof. Manju G Suresh attended a STTP on "Recent Advances in Optical Communication" organized by LBS Institute of Technology for Women, from 18th - 20th July 2016.
- Prof. Deepa Nair attended a short term course on Deep Learning organized by IIT Hyderabad from 1st - 4th Dec. 2016.

Student Achievements and Activities

- Ms. Ardra Vijayan, Mr. Ijas Ahammed, Mr. Naveen P S, Ms. Vaishnavi L S, Ms. Jesna Prem, Ms. Kavyasree S M, Ms. Akhila P, Ms. Arya Raj B, Ms. Divyasree M V and Ms. Keerthana Vasu, participated in the paper presentation and Project Expo during 19th International Student's Convention at VIT university.
- Ms. Sundari U, Ms. Sreelakshmi A P, Ms. Simi Mol S M, Ms. Simi Ajith, Ms. Shilpa Sabu, Mr. Sanju Anand A M, Mr. S Vigneswar, Ms. Revathy Krishnan M L, Ms. Neethu R Krishnan, Mr. Mithun Raj K, Mr. Asuhar S, Mr. Aromal C A, Ms. Aiswarya M Nair and Ms. Meera V S completed the internship training at KELTRON.

- Ms. Anjana Lakshmi K G, Ms. Apsana S, Mr. Arun Gopi, Ms. Athira K H, Ms. Athira Vijayan, Ms. Greeshma M R, Ms. Lakshmi C Raveendran and Ms. Mina K Baby completed the internship training in KELTRON.
- Ms. Vaseema Thasneem A B completed full time training on Basic Telecom Technologies at BSNL.

DEPARTMENT OF MECHANICAL ENGINEERING

Seminars / Courses organised by the Department MECHON-2016

MECHON-2016 is the first National Conference conducted by the department of Mechanical Engineering on 20th February 2016. The technical session of Department of Mechanical Engineering started with invited talks by Dr. S. Sridhar, Group Director, CMSE, VSSC and Dr. R. Lakshminarayanan, Deputy General Manager, HLL Life care Limited. Technical papers from various engineering disciplines were presented.



Paper Presentation and Publications

- Mr. Rajesh Prabha presented a paper titled "Neuro Fuzzy Modelling and Prediction of Wear rate in Composite Manufacturing" in the International Conference held at NI Centre for Higher Education.
- Mr. Ajay Raag published a journal paper titled "Liquid Metallic Infiltration processing of Metallic composites – A critical review".
- Prof. Sreerag R S presented a paper titled "Logistic Optimization for Wastage Reduction of Food Grains" at MECHON'16.
- Prof. Shyam Sundar V presented a paper titled "Optimal design of composite lateral wing upper covers" at MECHON'16.
- Prof. Arun Sasi S J presented a paper titled "Investigation of Wear Analysis in AZ91D alloy with BN addition" at MECHON'16.
- Prof. Bijith Raj V presented a paper titled "Property analysis of ADI as connecting rod material" at MECHON'16.
- Prof. Krishnanunni presented a paper titled "Experimental Study of Air Assisted Electrical Discharge Machining on INCONEL 718 " at MECHON'16.
- Prof. Karthik A S presented a paper titled "Design and Analysis of NiTi Endodontic files for root canal re-treatment procedures" at MECHON'16.
- Prof. Rajesh Prabha presented a paper titled "Effect of Titanium Carbide Particle Addition in Aluminium Metal Matrix Composites" at MECHON'16.

Courses / Workshops attended by Faculty Members

- Prof. Rajesh Prabha attended a Faculty Development Programme on PTC Creo 3.0 at SCT College, Trivandrum.
- Prof. Adarsh.G.R, Prof. Sreerag.R.S and Prof. Pradeep Raj attended a 2 day workshop on Advanced methods in Rapid Prototyping at NIT Trichy.
- Prof. Adarsh.G.R, Prof. Sreerag.R.S and Prof. Arun Michael attended a 1-day workshop on IPR Awareness by KSCSTE.
- Prof. Ajay Raag, Prof. Deepak.G and Prof. Sumesh Mohan attended a workshop on FEAST at MCET.
- Prof. Arun Sasi, Prof. Deepak.G and Prof. Manu Mohan attended a 2 week internship programme at HLL.
- Prof. Saitha.P.S, Prof. Sumesh Mohan and Prof. Nidhish.B.S attended a 6 day workshop on AMOS conducted by KTU.

- Prof. Arun.B.S, Prof. Bijith Raj, Prof. Sajitha.P.S, Prof. Vineetha and Prof. Harikrishnan attended a workshop on FEAST (Finite Element Analysis of Structures) at ISRO.

Student Achievements and Activities

- Mr. Arun.S.Dileep & Team (S6 ME) won the 2nd prize in "Raazmataazz" – Best Choreo as part of FOTIOs 2K16, Techno-Cultural Fest organized by Believers Church Carmel Engineering College, Pathanamthitta.
- Mr. Al Ameen & Mr. Aravind G S (S4 ME) won the 1st prize in Inter College Quiz competition as part of "Daksha '16" held at College of Engineering, Attingal.
- Mr. Arun.S.Dileep & Team (S6 ME) were the Runners Up in "Yuyutsav Dance Competition" conducted by House Surgeons Association of Govt. Ayurveda College, Trivandrum in association with Convocation ceremony "Prayaan".

Outreach Programmes conducted by the Department



ASAP (Advanced Skill Acquisition Programme) is a state Govt. initiated programme for providing skill training to +2 students from employability point of view. This department is one of the Skill Development Center (SDC).

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Seminars /Courses organised by the Department

TITAC'16 – National Seminar on "Trends in Information Technology and Advanced Computing" was inaugurated by Mr.Vineeth George, HR Manager, SunTec Business Solutions on 10th March 2016 and he delivered a speech on "Scope of IT Industry". Dr. Aji S. Assistant Professor, Department of Computer Science, University of Kerala, Kariavattom delivered a keynote address on "Text Analytic for Unstructured Bigdata". The paper presentation of all the faculties of MCA was conducted in the afternoon session.



Courses / Workshops attended by Faculty Members

- Prof. Rekha M Pillai, attended a Faculty Development Program on "Life Skill" organized by Govt.Engg.College, Kannur, from 8th - 12th Aug. 2016.
- Prof. Sreeja .K,Jayanthi T, attended a Faculty Development Program on "Application Development Maintenance" organized by TCS infopark, Kochi, on 4th Jan. 2017.
- Prof. Rekha M Pillai, attended a Faculty Development Program on "GEC" organized by Heera College of Engg.Trivandrum, from 22nd - 23rd Aug. 2016.

- Prof. Chinju R Nair, Prof. Jeeja G.S, attended a Faculty Development Program on " Mobile Networks and Embedded Systems" organized by TCS Campus, Peepul Park, Trivandrum, on 17th Nov. 2016.

Paper Presentation and Publications

- Prof. Sreeja K and Prof. Jayanthi T had presented a paper titled "Sentiment Analysis of Twitter Data Containing Emoticons: A Survey" at TITAC'16 and had published the same on IJNET, Volume 6, Issue 4, April 2016.
- Prof. Chinju R. Nair presented a paper titled "A Review Of Topology And Position Based Routing Protocols In Vanet" at TITAC'16 and had published the same on IJERGS, Volume 4, Issue 1, Feb. 2016.
- Prof. Rekha M Pillai and Prof. Jeeja G.S had presented a paper titled "A Survey On Various Security Threats on Internet and Available Methods to Thwart the Attacks" at TITAC'16.
- Prof. Jitha Thankachi B.J and Prof. Jisha Nair B.J had presented a paper titled "A Literature Review on Biometric Cryptosystems" at TITAC'16.
- Prof. Rajesh R.K and Shijimol V.R, "Vehicular Pollution and Controlling using Fog Computing and Clustering Algorithm" IJNET, Volume 4, Issue 3, March 2016.
- Prof. Jayanthi T and Dr.Aji S, "Face Recognition using Kernel Principal Component Analysis" AVC, Volume 1, Issue 1, March 2016.
- Prof. Mr. Rajesh R.K. and Prof. Ms. Shijimol V.R. had presented a paper titled "Intelligent Pollution Monitoring and Controlling using Fog Computing and K-Mean Algorithm" at TITAC'16.

LAURELS

- Dr. S.Sheela ,Mr. A.K.Asraff, Ms. Anju Paul, Ms. Ansu Mathew, Ms. S.Savithri, "Cyclic stress analysis of a rocket engine thrust Chamber using chaboche, voce and creep constitutive Models" Conference proceedings, 7th International Conference on Creep, Fatigue and Creep-Fatigue Interaction, 19-22 January 2016, IGCAR, Kalpakkam, India.
- Dr. S.Sheela , Mr. A.K.Asraff, Ms. Anju Paul, Ms. Ansu Mathew, Ms. S.Savithri "Cyclic Stress Analysis of a Rocket Engine Thrust Chamber Using Chaboche, Voce and Creep Constitutive Models", Journal Transactions of the Indian Institute of Metals, ISSN: 0972-281, March 2016, Volume 69, Issue 2, pp 495-500.
- Dr. S Sheela and Mr. Anil Varghese, "Torsional Behaviour of RCC Beam-Column Joints Strengthened using Different Composite Materials, International Journal of Emerging Technology and Advanced Engineering, Website: www.ijetae.com (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 6, Issue 12, December 2016, pp 92-99.
- Dr. S Sheela and Mr. Anil Varghese ", Effect of CFRP for Strengthening the Beam Column Joint under Torsion", Proceedings of TECHSYNOD 16, at MCET during December 19-21, 2016.
- Mr. Anil Varghese, Dr. Sheela S" Effect of CFRP for Strengthening the Beam Column Joint under Torsion " International Journal of Innovative Research in Science, Engineering and Technology, An ISO 3297: 2007 Certified Organization Volume 5, Special Issue 14, December 2016.
- The Best Teacher's Award for the year was shared by Mr. Arun.PV (ME) and Mrs. Vineetha. M (ME), Ms. Prathibha S Nair (CSE), Ms. Poornima Indusekhar (ECE) and Mr. Ullas Krishnan (BT).

- Mrs. A. Thamizharasi and Jayasudha J.S., "An image enhancement technique for poor illumination face images", Springer International Conference on Soft Computing, Intelligent Systems and Applications (ASISA 2016), April, 2016. (Considered for publication in Springer Advances in Intelligent Systems and Computing Series)
- Mrs. A.Thamizharasi and Dr.Jayasudha J.S., "A Novel Illumination Normalization technique for enhancing face images with uneven illumination", IETE International Conference on Robotics and Automation (ICRA 2016), February,2016.
- Mrs. A. Thamizharasi had received the Best Paper Award at the National Conference RACEIT 2016.
- Mrs. A. Thamizharasi and Mrs. Caroline Mary had received the Best Paper Award for the paper titled "Detection and Assessment of Leaf Spot Disease in Black Pepper Leaf" at Techsynod'16.
- Mrs. Vineetha M. received the Best Paper Award for the paper titled "Thermal Analysis Of Compact Heat Exchanger Considering Longitudinal Core Conduction and Axial Dispersion" at MECHON 2016.
- Mrs. Sajitha P.S. received the Best Presentation Award at the National Conference "MECHON 2016"
- Ms. Aswathy G received the IGS- AISAT Award : One Among The Best Five Mtech Thesis In Kerala for the paper titled "Experaimental study on pile behaviour".

LIVE PROJECTS

The HLL Lifecare and Mohandas College of Engineering and Technology set the foundation for an Industry Institute partnership between the two in 2014, formalizing this relationship by signing an MOU on 09 February 2014. The partnership started much earlier in July 2013, with the identification of a few projects that the college would undertake. Students visits to factories, Industrial training to students, Internship for students, Student and staff projects at HLL and participation in training programs/ seminars organized by HLL and College were the main areas for cooperation identified in the MOU. Three projects were taken up by the Mechanical Engineering Department in June 2015 and completed successfully by April 2016.

- Design of an online System to Clean the Moulds and Chain Plates after Stripping.
- Design of a system to enable online testing of condoms in the proposed online vulcanization and testing system.
- Design of a system to enable opening of the lower quality pouches in PAM-PAC Machine.

The following projects are proposed to be taken up during academic year 2016-17.

- Automatic beading unit adjustment and fine tuning system in Okamoto machine.
- Integration of foil sealing machine and PAM-PAC machine using pick place system developed earlier for full automation of secondary packing.
- Transportation problem/Johnson Algorithm on sequencing in connection with the reduction of transportation cost in secondary packaging operations.

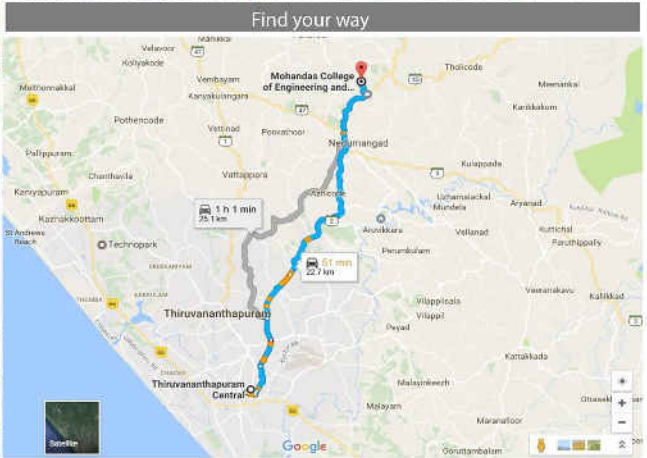
FUNDED PROJECTS

Funded Projects KSCSTE (Kerala State Council for Science, Technology & Environment)
Paddy Harvesting & Binding Machine

RESEARCH CORNER

The college emphasises the need to link proper selection of final year projects and seminars with the aptitude and future plans of the students. The following UG projects were selected by an expert committee based on innovation and funding was granted.

Sl. No.	Ref. No.	TITLE	STUDENT PARTICIPANTS	FACULTY SUPERVISOR
1.	RG2016-2017/BT/02	MOLECULAR CHARACTERIZATION OF BASILLUS SONORENSIS FOR OVER PRODUCTION OF CHOLESTROL OXIDASE	1. ATHUL SANJEEV 2. KAVYAMOL K NAIR 3. NIJA R J	DR. P. ROOPA
2.	RG2016-17/ME/01	HANDY PADDY REAPING AND HARVESTING MACHINE.	1. GOPI KRISHNAN H 2. NAKUL S KANNAN 3. KARTHIK SANTHOSH 4. UNNI KRISHNAN A S 5. AJAS MUHAMMED 6. AKSHAY JAYAN	PRADEEP RAJ R
3.	RG2016-17/CS/08	ADVANCE RESOURCE SHARING OS: FOR SMALL LAN/ WAN NETWORKS	1. ASHIK M. HUSSAIN 2. HIRAN K. RAJEEV 3. KARAN M. 4. NANDU R. NAIR	JISHA S.
4.	RG2016-2017/BT/01	IN-VITRO ANTIOXIDANT, ANTI-INFLAMMATORY, ANTI- MICROBIAL AND CYTO PROTECTIVE ACTIVITIES OF METHANOL EXTRACT OF FRUIT AND ROOT OF COCCINIA GRANDIS	1. SURYA .V 2. R.S. HARIPRIYA 3. SWATHY. J	DR. SHALINI A NAIR
5.	RG2016-2017/BT/03	PURIFICATION, OPTIMIZATION AND APPLICATION OF TANNASE PRODUCED FROM RICH HUSK	1. AMAL M. K 2. A. R. KRISHNAINDU 3. ATHIRA S. V	SUMARANI G. O
6.	RG2016-17/EE/03	360° SUN TRACKING WITH AUTOMATED CLEANING SYSTEM FOR SOLAR PV MODULES	1. MATHEW EVANS JOSEPH 2. VISAKII S S 3. SHUJIN ALBERT 4. RISHY N SANTHOSH	MRUDULA MURUGAN
7.	RG2016-17/ME/03	MULTIFLUID HEAT PIPE TEST APPARATUS	1. ASHISH KUNJUMON 2. CHITHUJI B M 3. MANU V M 4. RAHUL KRISHNAN 5. REJITH R CHANDRAN 6. SIBI MATHEW	KIRAN MANOHAR
8.	RG2016-17/ME/02	AQUA SILENCER	1. VINOD K 2. NANDAGOPAN G 3. SOORAJ U S 4. MUBARAK P V 5. YADU S S 6. SAIKRISHNA JAYKUMAR	ARUN SASI S J
9.	RG2016-17/EC/05	AUTOMATIC RATION MATERIAL DISTRIBUTION BASED ON RFID,GSM AND BIOMETRICS	1. LIYA SURESH 2. ARDRA S.S 3. ANJU PRIYANKA P.R 4. ANANTHAKRISHNAN.K	POORNIMA INDHUSEKHAR
10.	RG2016-17/EE /02	RESONANT COIL BASED FOOT STEP POWER GENERATION	1. PUSHYA D J 2. MOHAMMED RAFI A 3. RETHU VILAS 4. MEENU MOHAN 5. VIVEK JOSE	TINTU V.R
11.	RG2016-17/ME/04	CAR FOR DIFFERENTLY ABLED PERSON	1. ARJUN P 2. ASHWIN RAJ K V 3. ASWIN V KALADIARAN 4. BECHU K PAUL 5. KANNAN T 6. NAVNEETH M	BIJITH RAJ
12.	RG2016-17/EC/01	WIRELESS MULTIPURPOSE ROBOTIC VEHICLE WITH BOBOTIC ARM	1. AJAY S 2. GIREESH H 3. NAVEEN PS 4. VAISHNAVI L S	DIVYA H



Editorial Board



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