



DEPARTMENT OF

EEE

MESCE KUTTIPPURAM

THROUGH THE PAGES

**AEEE EVENT -
2016-17**

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MES College of Engineering,
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NEWSLETTER 2016-17



AEEE ANNUAL EVENT

The technical event was organized by Association of Electrical and Electronics Engineering (AEEE) on 16th March 2017.

Mr. Muhammed Shafeek, a well-known script writer inaugurated the event. Mr. O. P. Velayudhan, Assistant Executive Engineer, KSEB Puthanathani, delivered a technical talk on "Demand Side Management" after the inaugural function.

An interactive session with Mr. Thasveer Mohammed, a well-known model and motivational speaker was followed. Prizes were distributed to the winners of AEEE competitions and cultural events took place.



ACHIEVEMENTS

Raza Abbas S8 EEE : First prize in Inter Collegiate Technical Quiz conducted by BPCL Kochi Refinery at MES College of Engineering Kuttippuram on 8th February 2017

Sruthi M K S8 EEE : Second prize in Inter Collegiate Technical Quiz conducted by BPCL Kochi Refinery at MES College of Engineering Kuttippuram on 8th February 2017

Raza Abbas and Sruthi M K S8 EEE: Second prize in ENCON Club Quiz conducted at BPCL Kochi Refinery on 10th February 2017

Dibu K K S6 EEE : First prize for "Braille printer" in project competition in "TATHVA 2016" at NIT Calicut on 23rd October 2016

FACULTY EVENTS

SKILL DEVELOPMENT PROGRAMMES

EEE Dept. in association with Centre for Research on Energy and Environment (CREE) conducted 3 months Suryamitra Skill development Program (Solar PV Technician course) from 10th November 2016 to 10th February 2017. The program was conducted in association with National Institute of Solar Energy (NISE), New Delhi and ANERT. It was sponsored by Ministry of New & Renewable Energy (MNRE), Govt. of India. Dr. Harikumar, Director, ANERT inaugurated Suryamitra Skill Development Programme at Main Seminar Hall, MESCE on 10th November 2016.



RAZA ABBAS



SRUTHI M K



ASWIN K MANOJ



DIBU K K

Aswin K Manoj S8 EEE : Best Student Branch chairperson in IEEE Malabar Subsection for the year 2016

Dibu K K S6 EEE : Third prize in Robotics at "Dyuthi 2016" conducted at GEC Thrissur on 3rd September 2016

Dibu K K and Anand E P S6 EEE : First prize in Project presentation competition on "My Energy Efficient Dream Home" by EMC Kerala and IEEE Power and Energy Society on 4th March 2017

Ameen K B S6 EEE : Second place in ENCON Painting Competition conducted by BPCL Kochi Refinery at MES College of Engineering Kuttippuram on 12th February 2017

Ameen K B and Yadukrishnan J S6 EEE : First place in Technical Quiz conducted by AEEE at MESCE Kuttippuram on 10th February 2016

Mohamed Afsal V P and Mohammed Safwan K P S6 EEE : Second place in Technical Quiz conducted by AEEE at MESCE Kuttippuram on 10th February 2016

Second batch of Additional Skill Acquisition Programme (ASAP) Class was started on 07th April 2017. Mr. Thanweer Gafoor was designated as the coordinator.



Sessions/Workshops handled by Faculty

Dr. N Rajan Babu handled a session on "Introduction to Nonlinear Dynamics and Chaos", in the FDP on Road map to research in Electrical, Electronics and Computing at College of Engineering, Poonjar Kottayam on 15th February 2017.

Dr. Thasneem Fathima N K handled a workshop on "Biomedical signal processing", organized by IEEE WIE GECK Student Branch as a part of ATHENA, the WIE week, at Govt. Engg. College Kannur on 11th March 2017.

Dr. Nafeesa K chaired two sessions on International Conference on Applied Sciences and Engineering Technology (ICASET 2017) at Royal College of Engineering and Technology, Thrissur on 30th March 2017.

Dr. Thasneem Fathima N K Handled a workshop on "MATLAB for biomedical applications", organized by IEEE GECW Student Branch at Govt. Engineering College Wayanad on 11th April 2017.

Faculty Achievements



Dr. Shyma Muhammed receiving Doctoral Degree from Dr. Sivaji Chakravorti, Director, NIT Calicut on 15th October 2017. She has completed Ph. D on the topic "Robust control of multivariable time delay systems", Dept. of Electrical Engineering, NIT Calicut.

Dr. Maya G receiving Doctoral Degree from Dr. Sivaji Chakravorti, Director, NIT Calicut on 15th October 2017. She has completed Ph. D on the topic "Design and implementation of supplementary damping controller for mitigation of inter area oscillations using FACTS devices", Dept. of Electrical Engineering, NIT Calicut

Dr. Thasneem Fathima N K receiving Doctoral Degree from Dr. Sivaji Chakravorti, Director, NIT Calicut on 15th October 2017. She has completed Ph. D on the topic "Detection and prediction of epileptic seizures using EEG", Dept. of Electrical Engineering, NIT Calicut



Research publications

Dr. Thasneem Fathima N K co-authored a book chapter titled "Preterm birth prediction using electrohysterography with local binary patterns" in Computer, Communication and Electrical Technology – Guha, Chakraborty&Dutta (Eds)[©] 2017 Taylor & Francis Group, ISBN 978-1-138-03157-9.

Ms. T K Renuka co-authored a paper titled 'Enhancement of Small Signal Stability of Power Systems using Fuzzy Logic Control', in International Journal of Engineering Science & Technology, vol.8, no.3, 2016, pp.48-63.

Dr. Thasneem Fathima N K co-authored a paper titled "Wavelet Packet Analysis for Automatic Seizure Detection and Latency Study in Scalp EEG" in Journal of Medical Imaging and Health Informatics, vol. 6, no. 3, pp. 1-7, 2016. (American Scientific, SCI indexed)

Mr. Karthick V presented a paper titled "Advanced Posi-Cast Controller for DC-DC Buck Converter" in the International Conference on Engineering & Technology for Sustainable Development, held at Al-Ameen Engineering College – Shoranur, 12th Nov 2016.

Dr. Nafeesa K and Ms. Anila Chandran , S3 MTech published a paper titled " Robust Control Scheme For DC-DC Boost Converter" in Proc. of Kerala Technological congress, KETCON 17 held at Mar Athanacius college of Engineering Kothamangalam, January 13-14, 2017.

Dr. Nafeesa K, Mr. Riyas K, S6 B Tech, Ms. Shahanas M.N, S2 M Tech, Mr. Dilshad K.B, S6 B Tech, Ms. Aswathy T, S6 Btech, Mr. Mohammed Roshan K, S6 B Tech and Mr. Muhammed Faris V.P, S6 B Tech published a paper titled "Hybrid solar Electric vehicle" in the proc. of Kerala Technological congress, KETCON 17 held at Mar Athanacius college of Engineering Kothamangalam, January 13-14, 2017.

Dr. Thasneem Fathima N K and Ms. Shafna M T P, S3 M Tech published a paper titled "Diagnosis of Nerve disorders", Proc. Kerala Technological Congress KETCON 2017 held at Mar Athanacius college of Engineering Kothamangalam, January 13-14, 2017.

WORKSHOPS, TALKS & SEMINARS

Mr. Jerry Varghese, Senior Data Engineer, Nike USA delivered a talk on "Big Data Analytics" at EEE seminar hall for EEE S8 students on 13th January 2017



Dr. Venugopalan K, Assist. Prof., Amrita University Coimbatore and Dr. Sasidharan Sreedharan, HOD CSE Dept., MESCE handled a workshop on "Advanced programming and applications using MATLAB" for S7 EEE students on 31st October 2016. Mr. Labeeb M coordinated the workshop.

Mr. Maaney Paul, Managing Director at etop and soft skill trainer conducted a seminar on "Working with Inner Potential for Success" at College Auditorium for EEE students on 1st March 2017



Mr. Ajay M P, Chief Project Manager at Transiot, Cochin conducted a two day workshop on "Arduino Starter Kit Familiarization" for S4, S6 and M.Tech students on 17th and 18th February 2017. Ms. Syama P S coordinated the workshop.

Mr. Ismail E K, Asst. Professor at MESCE handled a workshop on "Grid tied solar power" at EEE Seminar Hall for S5 and S7 EEE students on 20th and 21st July 2016



Mr. Muhammed Safeer, MEP Programmer, Epzilon, Calicut delivered a talk on "Electrical System Design using AutoCAD and its importance in industries" on 10th February 2017

Mrs. Smitha P, Assistant District Industries Officer, Malappuram delivered a talk on the subject "Entrepreneurship Development and Skills of Industries" on 20th December 2016

Dr. Nikhil P G, Sr. Research Scientist, National Institute of Solar Energy, Gurgaon, New Delhi delivered a talk on "Scope of Renewable Energy" on 9th December 2016

Jayachandran K, Design Manager, National Grid Manchester, UK delivered talk on "Energy from Waste" for S4 EEE students on 10th February 2017



Ms. Sajina M K coordinated a workshop on "Study and repair of house hold appliances" for S8 EEE students on 25th July 2016

Er. Sureshkumar, Additional Private Secretary, Minister for Electricity, Kerala delivered a talk on "Problems Connected to On Grid Solar Plant" for S6 and S8 EEE on 10th February 2017

Muhammed Rishad C, Centre Manager, SHAD Creative Education held placement training program for S8 EEE students on 4th February 2017

Mr. Shan S, General Manager, Solstar Powertech and Chartered Engineer at MNRE, Govt. of India delivered a talk on "Solar Energy" for S8 EEE students 10th January 2017

Mr. Christo George, Chairman and MD, HYKON group of Companies delivered a talk on "Challenges in grid connected solar energy systems" for S8 EEE students on 5th January 2017

Mr. Ajith Gopi, Program officer, ANERT Trivandrum delivered a talk on "Challenges in Design and Implementation of Solar PV" for S8 EEE students on 22nd December 2016

Saif Al-Jihad, Proposal Engineer at Al-Mansoori, Spec. Engg Abu Dhabi gave a talk on "Opportunities in Instrumentation" for S8 EEE Students on 20th December 2016

Mrs. Smitha P, Assistant District Industries Officer, Malappuram delivered a talk on "Entrepreneurship Development and Skills of Industries" for S8 EEE students on 20th December 2016

Mr. Sandheep K, Chief Executive, Glow Mind Training Consultancy, Aluva gave a talk on "Grab your dream Job" for S8 EEE on 19th December 2016

Dr. Nikhil, Sr. Research Scientist, NISE, Delhi presented a talk on "Renewable Energy: challenges and solutions" targeting the S6 of EEE on 9th December 2016

Mr. Jose Kalloorkaran C, MD, KOPAR Energy solution Pvt. Ltd. delivered a talk on "Design and implementation of solar power plant" on 5th December 2016

Jethin Dutt, Assistant Manager, Engineering Dept., Ujas Energy Ltd., Madhya Pradesh delivered a talk on "Solar PV Engineering" for S6 EEE students on 3rd December 2016

Dr. R Harikumar, Director, ANERT, Kerala delivered a talk on "Scope of Renewable Energy in Kerala" for S3,S5 and S7 EEE students on 10th November 2016

Mr. Dibu K K and Mr. Anand EP of S6 EEE, MESCE delivered a talk on "energy efficient dream home" for S4 EEE students on 5th October 2016

CELEBRATIONS

Onam Celebration 2016

Department Onam Celebration was conducted on 10th September 2016. The Onam celebration mainly included the group preparation of pookkalam and other diverse cultural events by the students and the staff. The celebration was followed by 'Onasadya' to all staff and students.



The responsible coordination and the participation by staff and students made the program a memorable event.

INDUSTRIAL VISITS & TRIPS

Edappal 220/11KV Substation



Students of 5th semester EEE along with faculties Ms. Renuka T.K and Mr. Labeeb M visited 220/11KV Substation, Edappal on 17th August 2016. The purpose of the visit was familiarization with industrial environment and to get practical knowledge of electrical power transmission and distribution.

Explanation was given by the assistant engineers about all the essential component of the 220KV substation and one line diagram of Edappal substation. In addition to this, they described about various programming done in control room.

KOZHIKODE DIESEL POWER PLANT



Students got a chance to know about different protection devices used in substation and idea on how to read the one line diagram of power substation using different symbols used in diagram. They could get the practical knowledge of the working of transformer. They also familiarized with the PLC working.



The visit was conducted on 3rd September 2016 for 55 EEE Students. Dr. Thasneem Fathima N K and Mr. Thanveer Gaffoor accompanied the students. Section engineers narrated and explained in detail about the structures as well as working of each section.



FINAL YEAR FIELD TRIP

The 10 day field trip of the final year students of EEE department commenced on 14th February 2017. Mr. Amjed, Ms. Nishada and Mr. Nadeer accompanied the students. The trip covered notable landmarks of India like Shimla, Kulu Manali, Kufri and Delhi. The team visited famous mausoleum, the Taj Mahal. After 10 days of enjoyment and experience, the team reached back safely to college on 28th February 2017.



RAMAKKALMEDU WIND FARM

The visit was conducted on 23rd November 2016 for 56 students. Mr. Karthick V and Ms. Sajina M K accompanied the students. The visit was arranged to study different aspects of wind power generation. The wind farm was inaugurated on 27th April 2008. Seven wind farm units have started to supply to KSEB Kallar substation.

PALLIVASAL HYDRO POWER PLANT

The visit was conducted on 22nd November 2016 for S6 students. Ms. Sajina M K and Mr. Karthick V accompanied the students. The visit was organized to study different aspects of Hydroelectric power generation and discharge through spillway.

Pallivasal hydroelectric project was commissioned in 1940. Kerala electricity transmission system was also emerged in 1940 with 66 kV line from Pallivasal to Thiruvananthapuram, and eight substations were also commissioned in 1940. Currently under operational condition, the plant supplies 38MW under the management of KSEB.



VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES

Vision of the Department

- To develop as a center of excellence in Electrical and Electronics Engineering to mould competent, committed and compassionate engineering professionals, with best technical, analytical, innovative and interactive skills.

Mission of the Department

- To provide the highest quality teaching and learning environment to produce Electrical and Electronics Engineers having strong theoretical foundation, good design experience and exposure to research and development.
- To inculcate value based, socially committed professionalism for overall development of students and society.
- To develop and disseminate technology and help to create systems to meet the energy requirement of the nation.

Program Educational Objectives (PEOs)

- Utilize fundamental knowledge and skills to design, analyze and test electrical systems to meet the needs of the society.
- Function ethically in multidisciplinary teams to develop sustainable solutions for global, environmental and social issues and communicate effectively.
- Integrate academic insight with relevant industry scenario for collaborative research.
- Develop creative and critical reasoning skills for diverse career and lifelong learning.

EDITORIAL BOARD

Dr. Rajan Babu N (HOD, EEE), Dr. Thasneem Fathima N K (Asso. Prof., EEE)
Mr. Ameen K B (S8 EEE), Faris T (S8 EEE), Arjun Hari (S8 EEE),
Fazila Salim (S8 EEE)