

VOLUME - 5, ISSUE - 1

REACHOUT



"I am exceedingly gleeful to inscribe that the department of Electrical and Electronics Engineering of Royal College of Engineering and Technology under its Technical Association ESCON is releasing the Technical magazine 2017 "REACHOUT". I am sure that staff and students will be keen in promulgating some original Technical articles through this magazine. I congratulate the organizers in their noble enterprise. Wishing you, "All the best".

Dr. SP Subramanian
Principal, RCET



The association was inaugurated for the academic year 2017-2018 on 18th August 2017 by Er.T.A.Kuriyakose, Executive Engineer, Transgrid-North, Shornur, KSEB Ltd. The function was commenced with a prayer. Mr.V.K.Haridas (AP/EEE) formally welcomed all the dignitaries and the audience whole heartedly.



Fourth volume of department newsletter "REACH OUT" was unveiled by Er.T.A.Kuriyakose, the chief guest of the function. Ms Amrutha M Chemmannur (HOD/EEE) laid out the previous year's association activities and the action plan for the next academic year. Afterwards Er.T.A.Kuriyakose delivered a talk on "OPPORTUNITIES IN THE POWER SECTOR". He mainly focused on the present power generation capacity in Kerala and compared it with the other states.

It gives me immense pleasure to introduce the newsletter by our department "REACHOUT" illustrating various academic and non academic activities of EEE department. I am sure that this pamphlet could give a greater exposure to the achievements accomplished by students and faculty of EEE department. I congratulate the whole department, especially the newsletter committee for their enterprise in bringing out this newsletter. I wish all success in your future ventures.



V K HARIDAS
(ASST PROFESSOR)

The past year was very glorious for EEE department in both academic and non-academic activities. It's very heartwarming that the students are unveiling the erstwhile era of triumph through REACHOUT the department pamphlet. I wish the whole team all the very best for their efforts.



AMRUTHA MC
(HOD)





BPCL KOCHI REFINERY

ENCON CLUB

ROYAL COLLEGE OF ENGINEERING AND TECHNOLOGY

BPCL Kochi Refinery reached out to thousands of people with the message of oil and gas conservation. Various awareness campaigns were conducted as a part of the Oil and Gas Conservation Mass Awareness Campaign. Energy conservation Quiz, essay and painting competitions were conducted in all the 70 BPCL Kochi Refinery sponsored ENCON Club institutions in the State of Kerala as part of the SAKSHAM-2018 celebrations to bring awareness in the upcoming generation about the need and Importance of energy conservation.

SAKSHAM



As a part of the “Oil and Gas Conservation Mass Awareness Campaign (**SAKSHAM 2018**)” the ENCON Club of Royal College of Engineering & Technology conducted various competitions to promote Energy Conservation among the students. About 80 students registered for various events and the competitions were held on 3rd, 5th and 6th February 2018. Various Competitions include essay writing competition, painting competition and quiz competition. The Energy Quiz competition was held on 3rd Feb 2018. Due to huge participation of students a screening test was conducted in the morning session and the quiz was conducted in the afternoon session. The Essay Writing Competition was held on 5th Feb 2018. The theme selected for the competition was ‘**My College – A Model for Energy Efficiency**’. The Painting Competition was held on 6th Feb 2018. The theme selected for painting competition was ‘**Bio Refinery for Bio-Fuels**’.



COGNITO 2K17



TECH FEST-EEE DEPARTMENT

CIRCUIT DEBUGGING

Circuit debugging was the event which showcased the talents and skills of students in designing and debugging a circuit time bound. It was coordinated by Mr Kiran P (AP/EEE) and Mr Anas(S7/EEE). It was conducted in 3 phases in order to eliminate and identify the winners. There was a huge external participation for this event. Overall 10 teams registered for this event which included 7 external team participations. Mr Haridas V K (AP/EEE) & Mr Pradosh Kumar (AP/AEI) were the eminent judges for this event.



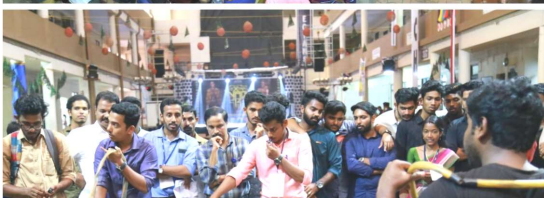
MIND SPARK

Mind Spark was the platform for students to display innovative ideas and their presentation skills. The event was coordinated by Ms Anju Sam(AP/EEE), Ms. Neethu (AP/EEE) & Mr Thushar (S7/EEE). The event was organized in four rounds which included fun round, identify round, Quiz Round & Mind Spark Round. Overall 12 teams registered for this event which included 10 external team participations. Mr Haridas V K (AP/EEE), Mr Jerry James (AP/AEI) & Ms Rakhi I (AP/CE) were the judges for this event. The team from RCET bagged the first



ROBO WAR

The challenge is to create a robot (manually controlled / autonomous) whose sole purpose is to push, throw, flip, drag, or otherwise move your opponent out of the arena within a stipulated time. This event aims to test your Robot against another in a field of combat where brute strength and cat-like reflexes hold the key to success. The program was inaugurated by the stand-in HOD of EEE department. Cash prize and Certificates were awarded for winners and participation certificate for all participants.



VIBRANTZ

Vibrantz was conducted on 26/10/2017, which was an event which invited different musical bands of various colleges to perform in a single platform. Six teams participated and performed 20 minutes each in the platform. The event was coordinated by Mr V K Haridas (AP/EEE), Ms Anu M (AP/EEE), Mr Dinto Thomas (AP/EEE) & Mr. Vishnu Shaji (S7/EEE).





WORKSHOP



PHOTOSHOP

Vishnu K, student of S5 EEE conducted one day class on 'Adobe photo-shop' on 3/02/2018. The class was about the various tools and techniques used in photo editing. It was really informative and lifted the students to enrich their knowledge of the above mentioned software with the help of its applications.



INTRODUCTION TO LATEX

With a vision to make the students able to prepare good quality project reports and conference papers, EEE department conducted a technical talk on "Introduction to LaTeX" for S7 EEE students. Ms. Neethu K S, Asst. Professor of EEE department was the resource person. The speaker introduced different tools available in LaTeX for project preparation and familiarized different templates available. The session was very useful for the students in preparing their project reports



EARTHING PRACTICE

The department of EEE, RCET had organized an earthing practice for 3rd and 5th semester students. The session was handled by Sinto K.J, Lab instructor. He explained about the need of earthing in the first session. Later the students were taken for a practical section. Through this practical section the students were able to understand more about earthing and its importance. The students were really enthusiastic and the session came out very well and was interesting for everyone. The program was eventually an informative session for the students.



ROBOWAR

A workshop on Robowar for S3 EEE students were conducted on 26-07-2017. It was being headed by Mr. Lijo, Mr. Alfred and Mr. Justin, the pass out students of batch 2013-2017 from EEE Department. From this session they gained knowledge on the technical, economical as well as on the aesthetic aspects of robowar and its design. With the help of the robotic car which was being already designed by the resource persons, they gave a broad idea of its design and technical aspects.



ARDUINO

With an objective to provide an opportunity for students to be aware of ARDUINO and thereby developing a stepping stone towards the development of embedded systems, EEE department of RCET conducted a workshop on ARDUINO for S5 EEE students. Mr. Sterlin P S, student, S7 EEE was the resource person. He explained the parts of an ARDUINO board, programming details and details of microcontroller. The practical session included working with various peripherals. The workshop was really informative and the certificates for the participants were distributed at the end of session.



AUTOCAD

As a part of design project, EEE department conducted a one day CAD Lab workshop on 07/10/17 under the guidance of Mr. Praveen, Assistant professor, EEE department. This workshop was really a new experience to all students. In the session the teacher explained about the software and students were given a chance to practice the lab individually. From this workshop students got a basic idea about CAD software and its advantages and also how it functions. The program was a great success.

MATLAB

EEE department conducted one day MATLAB workshop under the guidance of Mr.Sanjith Mohan, Asst.prof. of EEE department. The workshop was a new experience for all students who attended the workshop. From this workshop students got a basic idea about MATLAB software, its advantages and how it functions. The workshop was a great success and beneficial.

BANKING AWARENESS

As a part of career guidance awareness, a session on opportunities in banking sector and other competitive exams for engineering graduates was conducted on 24/02/18. Expertized faculties from banking sectors were the resource persons .



EEE

PROJECT EXPO 2018

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NATIONAL SERVICE SCHEME

-NOT ME BUT YOU-

A unit of the N.S.S. cell (Tech.) [unit no.143] is functioning in the college. N.S.S. is acting as a catalyst to build up the right type of leadership in the institution. The main aim of the scheme is to provide opportunities to the students to gain valuable practical experience through community service, Lakshmi Devi of S8 EEE was honoured by first altruist engineer award in the world and a special award in the award ceremony of Punarjjani Project conducted by National Service Scheme Technical Cell at LBS Institute of Technology, Trivandrum. Altruist engineer award also awarded by Sanam (CE)&Jithin P (AE)



District President and State Committee Member), conducted tuition at Mary Matha Orphanage on 18-02-18 (Sunday). As a part from usual teaching, special training were given for 9th & 10th standard students. Also NSS RCET conducted a seminar on "Prakruthiyum Manushyanum" on behalf of Environment protection group. To avoid the usage of plastics a pen made of paper introduced during the seminar. Mr. Shaji Thomas N, Sharfudeen of Environment protection group handled the sessions. So many co-curricular activities conducted and motivated through our NSS RCET. RCET NSS Technical Cell 143 conducted "Free Computer Training Classes" at RCET Campus. As a part of Sarva Siksha Abhiyan NSS volunteers of Royal College of Engineering and Technology repaired damaged computers in Mini Industrial Estate Kunnankulam. NSS Unit of RCET completed the much-awaited "Home Renovation Work" of Mrs. Maggy, resident of 7th ward, Pookulam Grama Panchayath. In connection with World Environment Day RCET NSS Technical cell -143 conducted a talk on "Beat Plastic Pollution; if you can't reuse it, refuse it" by Mr. Zeroob K. Baby (Prakruthi Samrakshana Samgam).



Presentation done on the development and awareness of society before the technical education director board members during the state annual meet 2017 by Lakshmi Devi of S8 EEE



ATATTAINMENTS

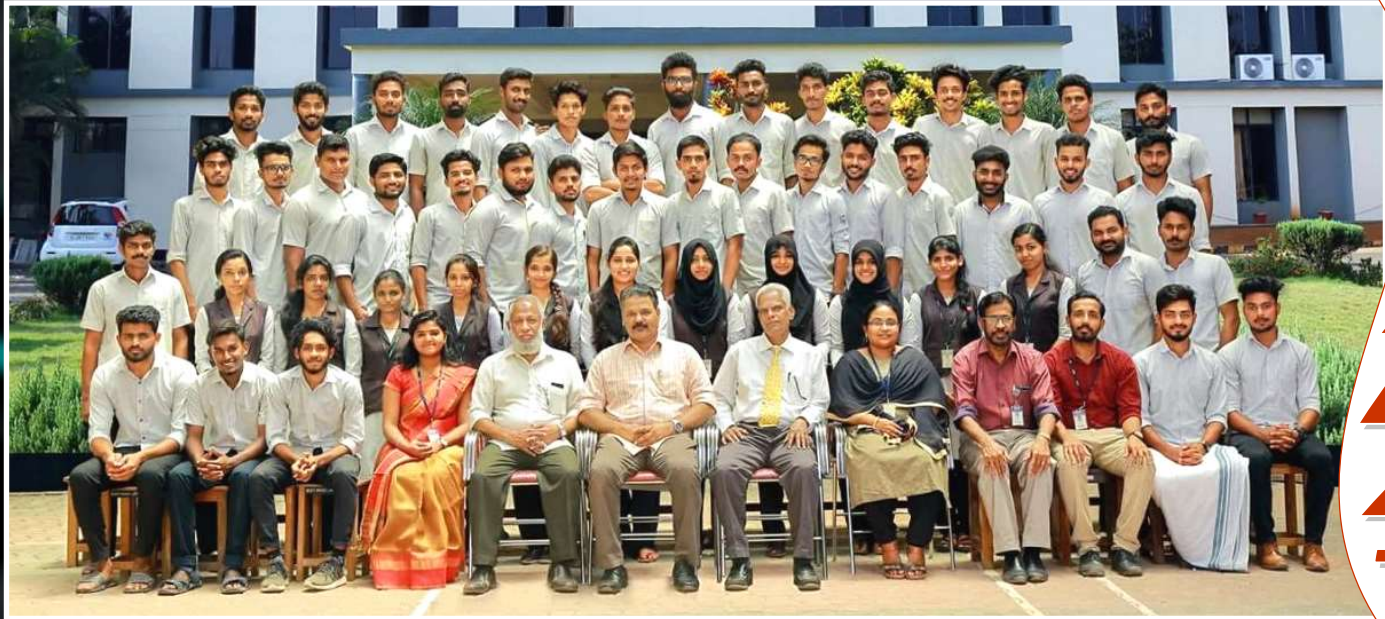
- Vishnu Shaji and team from S7 EEE participated in “Thathwa2k17” project expo at NIT Calicut.
- Vishnu Shaji and team from S8 EEE won second prize in “LUMIRE 18”, a national level techno cultural fest conducted by college of engineering Kidangoor.
- Vishnu Shaji and Team of S8 EEE won first prize in Expo for their IEDC RCET funded project conducted by ECE dept of MES Kuttipuram.
- The product HV pulse maker (IEDC funded) by Vishnu Shaji and Team of S8 EEE Secured Third position in Project Expo conducted by Vidya academy of Science and Technology.
- IEDC funded product "HV pulse maker for agriculture fencing system" by Vishnu Shaji and Team of S8 EEE secured first position in project Expo during Thejomaya an event by Thejus Engineering College.



- Sterlin and team and Arjun and team from S7 EEE participated in “YUVA mastermind” conducted by Manorama and got selected to final round.
- Volleyball team of EEE won the Cup in sports meet conducted at RCET.
- Cricket and football team of EEE reached semifinals in sports meet conducted at RCET.
- Lakshmi and Aquila from S7 EEE got second position in the event WE conducted by ECE department as a part of “COGNITO 2k17”.
- Reshma P K and team from S7 EEE attended MPPT training by green power Ltd at Coimbatore
- Mohammed Riyas, Hadhil, Mohammed Salman, Ansil, Mohammed Shafi attended 5 days industrial training by KSEB at Sabarigiri
- Sadik, Sahad, Mohammed Sinan and Shahin Sha from EEE department participated in KTU E-ZONE football tournament and bagged 3rd prize
- Sterlin P S from S7 EEE got selection in paper presentation as a part of “THATHWA 2k17” held at NIT Calicut.
- Surajith from S7 EEE participated in an event “TECHTALK” held at MA College Kothamangalam.
- Lakshmi Devi, student of S8 EEE was designated as the associate member of NGO social research society after attending a camp at Govt. polytechnic Palakkad.
- Lakshmi Devi, student of S8 EEE won special appreciation award for her documentation work done at “Punarjani 2017”. She also attended mega camp of Punarjani 2017 at medical college Calicut.
- Sadik O P of S6 EEE participated and won 2nd position In football tournament conducted at VAST thalakkottukara



TRANSCENDENCE



RETREAT





DHANAK-18



CONQUERORS



STEPHY
(2014-18)



VISHNU SHAJI
(2014-18)



FISMA
(2014-18)

SUBDUERS



THUSHAR
(2014-18)



IRFANA K
(2015-19)



SINU SIDHEEQ
(2015-19)



UMMUSAFEELA
(2015-19)



VIJESH
(2014-18)



SAFA NM
(2016-20)



AJIL M P K
(2018-20)



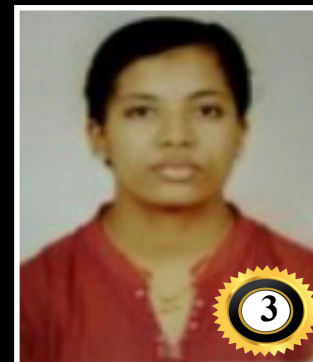
SACHIN JOSE T
(2016-20)



AISWARYA
(2018-21)



NIMEESH
(2018-21)



SHIJI VP
(2018-21)





Neethu K S
Asst Professor



Vishnu K
S7 EEE



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REACHOUT¹⁸

ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT