

STUDENT ACHIEVEMENT

- Four of our S8- EEE students got placement in Electrical core field through RACE. The training was given by Sigmos-Cochin. The details is given below:
 1. Mr. Sarath Kumar T (Team Sustain Engineering Green Solutions LTD)
 2. Mr. Amal P Simon (Team Sustain Engineering Green Solutions LTD)
 3. Mr. Reneesh (LULU Group Projects, Engineering A-Grade consultants)
 4. Mr. Thanseer (LULU Group Projects, Engineering A-Grade consultants)
- Sterlin and team from S7 EEE got selection in **“YUVA MASTERMIND”** project competition conducted by Manoram and Amal jyothi college of engineering.
- Vinil and team from S7 EEE got selection in **“YUVA MASTERMIND”** project competition conducted by Manoram and Amal jyothi college of engineering.
- Sterlin P S from S7 EEE got selection in paper presentation as a part of **“THATHWA 2k17”**, to be held at NIT Calicut.
- Surajith from S7 EEE participated in an event **“TECHTALK”** held at MA college Kothamangalam.
- Vihnu Shaji and team from S7 EEE participated in **“THATHWA 2K17”** project expo at NIT Calicut and got appreciation from judges.
- Sterlin and team from S7 EEE participated in **“YUVA MASTERMIND”** conducted by Manorama and got selected to final round.
- 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 EC 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.



- 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.
- 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”. Shje also attended mega camp of Punarjani 2017 at medical college Calicut.



STAFF ACHIEVEMENT

- Ms.Able Alex, Mr, Kiran P, Mr.Dinto Thomas, Ms. Rani T R & Mr.Praveen K P, were appreciated by management for the excellence in their KTU results during all staff meeting held at seminar hall on 22/07/2017.
- Mr.Kiran P and Mr.Sanjith Mohan, AP/EEE attended Short term training programme on Electric Power System conducted by Indian Institute of Technology Kharagpur under National Mission on Education through ICT, MHRD; Govt. of India from 10th to 15th July, 2017.
- Ms.Anu M, AP/EEE attended “TEACHING & LEARNING SKILL DEVELOPMENT” which emphasized on various concepts of teaching methods conducted at MES college of Engg. Kuttippuram, on 5 th & 6th JULY 2017
- Mr.Kiran P & Mr.Dinto Thomas, AP/EEE were participated a workshop on the best practices in energy efficiency and management organized by Energy Management Centre, Trivandrum on 29/07/2017.
- Ms. Anju Sam and Ms. Able Alex co-ordinated and conducted five days workshop on SKILL DEVELOPMENT for S3 (10th July 2017 to 14th July 2017) and S5 (3rd July 2017 to 7th July 2017) students of respectively at Royal College of Engineering & Technology, Akkikkavu.
- Ms.Amrutha M Chemmannur, Mr.Haridas V K & Ms.Anju Sam conducted a half day orientation class for students of bridge class on business in engineering, role of basic science in engineering and importance of language skills in engineering respectively.
- Mr.Praveen K P co-ordinated and conducted five days internship program on “Introduction to Cadd” for S2 & S4 students from July 21st to July 27th at EEE Dept, Royal College of Engineering & Technology, Akkikkavu.

EEE DEPARTMENT ASSOCIATION INAUGURATION

***“ESCON”*:-Electrical Students Confederacy**, the EEE department association which provides a platform for the students to exhibit and bloom their technical talents. The inaugural ceremony ESCON for the academic year 2017-2018 was conducted on 18th August 2017. The function was commenced with a prayer. Mr. V.K. Haridas (AP/EEE) formally welcomed all the dignitaries and the audience wholeheartedly. He also gave an overview about the significance of ESCON and its aims about bringing together the core group of students with a significant participation for improving their technical skills.



The ESCON was inaugurated by Er.T.A.Kuriyakose, Executive Engineer, Transgrid-North, Shornur, KSEB Ltd. Ms. Amrutha M Chemmannur (HOD/EEE) laid out the previous year's association activities and the action plan for the next academic year. She also declared the names of newly formed executive members & office bearers of ESCON for this academic year.



The IVth volume of department newsletter “REACH OUT” was unveiled by Er.T.A.Kuriyakose, the chief guest of the function. Reach out highlights all the events and activities conducted in the EEE department during the last academic year. The entire program wrapped up by vote of thanks by Ms. Fisma.M.H (Joint Secretary, ESCON). She thanked all the invited guests, students & the audience around for gracing the occasion by their solemn presence. She also thanked the management for providing all kind of facilities to conduct such function.



Er.T.A.Kuriyakose there by delivered an invited talk on **“OPPURTUNITIES IN THE POWER SECTOR”**. He mainly focused on the modern power generation capacity in Kerala and compared it with the other

states. He also gave an insight about the concept and possibilities of installing renewable energy sources in Kerala. He detailed regarding the career options of power engineers in public & private sector. Finally Mr.V.K.Haridas, AP/EEE, presented the mementoas a token of love & gratitude for the chief guest.



SATURDAY ACTIVITIES ON 16-09-2017

1. EARTHING PRACTICE: Resource person: Sinto K J



The department of EEE, RCET had organized an earthing practice for 5th semester students on 16-09-2017. 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. According to the instructions from guide, students made a pit. A pipe is then kept on the pit. A mixture of charcoal powder, salt and sand were added in the earth pit. And finally a masonry enclosure was made over earth pit. 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, also it was successful.

2. INTRODUCTION TO LATEX

Resource person: Neethu K S



On 16/9/2017 as a part of the saturday activities, department of EEE conducted a workshop on Latex for s7 EEE students by asst. prof. Neethu K S . The aim was to make the students able to prepare good quality project reports and conference papers. The main part of workshop was; making of abstract, report making, insertion of images and how to use the arithmetic equation in Latex. The speaker introduced different tools available in Latex for project preparation and familiarized different templates available. The lecture was for 2 hours and ended with complete satisfaction of the students

3. WORKSHOP ON LANGUAGE SKILLS

Resource person: Anju Sam

As a part of Saturday activities, EEE department had organized a workshop on language skills on 16-09-2017. Mrs.Anju Sam was the resource person. EEE department conducted this event with a vision to make the students confident so that they can face the crowd, participate in debates, group discussions without any stage fear. Two sets of debates were conducted in the session. The students were divided into 4 groups. Each group contained 5 students. The topics for debates

were ‘whether divorce is necessary or not’ and ‘whether military education is necessary in colleges’. Safa and team were the winners. The session was really interesting and students actively participated in the debates.



4. A CLASS ON PERSONALITY DEVELOPMENT-“KNOW YOURSELF”

Resource person: Able Alex

On 16-09-2017 Saturday, a class was conducted by EEE department on personality development namely “Know yourself”. Mrs. Able Alex was the resource person. The session mainly concentrated on behavior of a person during various situations and how we can identify the problems and its correction methods. She explained about the conscious and subconscious mind and how to control the subconscious mind by our own. She conducted a game which was a psychiatric activity.



The class was really useful in developing ourselves as a better personality. The games were really interesting. By attending the session students were able to analyze themselves learned to face problems in life.

5. CHESS COMPETITION



EEE department had organized a chess competition for all interested students of EEE department. Two games of first round were conducted on 25-07-2017. Six games were conducted on 16-09-2017

WORKSHOP ON CAD: Resource Person: Praveen K P AP/EEE

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. Almost half of the students of S5 EEE attended the class. This workshop was really a new experience to all students. The class had 2 sections. In The first section the teacher explained about the software and in the next section, students were given a chance to practice the lab individually.

Computer Aided Design (CAD) is defined as the use of information technology in the design process. A CAD s/m consists of IT hardware, specialized software and peripherals; which in certain applications are quite specialized. The core of a CAD s/m is the s/w which makes use of graphics for product representation, databases for storing the product model and drives the peripherals for product representation. It's use doesn't change the nature of the

design process but as the name states it aids the product designer. The designer is the main actor in the process, in all phases from problem identification to the implementation phase.

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.

WORKSHOP ON MATLAB: Resource Person Sanjith Mohan AP/EEE

As a part of design project, EEE department conducted one day MATLAB workshop on 7/10/17, under the guidance of Mr. Sanjith Mohan, Asst. prof. of EEE department. Almost half of the students of s5 EEE attended the class. The workshop was really new experience for all students who attended the workshop. The class had two sections. In the first section teacher explained about the procedure and benefit of the lab.

MATLAB is an electrical software which is used to analyze various electrical circuits. It helps to eliminate the chances of faults and project failure which may occur if we make its hardware directly. The electrical elements required to construct a circuit available in matlab simulink library.

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.

COGNITO 2K17

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Royal College of Engineering & Technology organized a 3 day Technical Fest “**COGNITO 2K17**” on 25th, 26th & 27th of October 2017. The Fest was well organized by the co-ordinators Ms. Mary John C (HOD/CE) & Mr. Krishankumar R (HOD/ECE). Mr. Dinto Thomas & Mr. Kiran P were chosen as the department co-ordinator for organizing different events during the Tech Fest. Student Co-ordinator for this event was Mr. Sterlin P (S7/EEE).

The main events conducted by EEE department are:-

1. CIRCUIT DEBUGGING
2. MIND SPARK
3. VIBRANTZ
4. ROBO WAR

Event 1: Circuit Debugging Date & Venue: 25/10/2017 & EE Lab Room No. 119 (FN)

Circuit debugging was the event which showcased the talent and skill of students in designing and debugging a circuit within a time bound. It was co-ordinated 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 includes 7 external team participations. Mr. Haridas V K (AP/EEE) & Mr. Pradosh Kumar (AP/AEI) were the eminent judges for this event.



Event 2: Mind Spark**Date & Venue: 25/10/2017 & EE Lab Room No. 119 (AN)**

Mind Spark was the platform for students to display innovative ideas and their presentation skills. The event was co-ordinated by Ms. Anju Sam (AP/EEE), Ms. Neethu (AP/EEE) & Mr. Thushar (S7/EEE). The event was organized in four rounds which include fun round, identify round, Quiz Round & Mind Spark Round. Based on the initial rounds, the teams were filtered out and only 5 teams were qualified for the final Mind Spark Round. There was a huge external participation for this event. Overall 12 teams registered for this event which includes 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 prize and the team from Sreepathy bagged the second prize. The prizes for winners were distributed by the respected judges and participation certificates were distributed by Mr. Haridas, Mr. Dinto and Ms. Anu. The event was successful and enjoyed by everyone.

**Event 3: VIBRANTZ****Date & Venue: 26/10/2017 Courtyard, Main Block**

Vibrantz was conducted on 26/10/2017, which was an event inviting 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 co-ordinated by Mr. V K Haridas (AP/EEE), Ms. Anu M (AP/EEE), Mr. Dinto Thomas (AP/EEE) & Mr. Vishnu Shaji (S7/EEE).



Event 4: ROBO WAR

Date & Venue: 27/10/2017 & Courtyard, Main Block

The Electrical & Electronics Engineering Department of Royal College of Engineering & Technology conducted ROBOWAR as a part of the Technical Fest COGNITO'17 coordinated by Mr. Sanjith Mohan (Assistant Professor, EEE Dept.). The student coordinators were Mr. Adhil (S5 EEE), Mr. Safeer (S5 EEE) and Mr. Gulsar (S5 EEE).

ROBOWAR was inaugurated by Mr. Haridas V K, HOD(in-charge), EEE Dept. There were 2 teams from Sree Narayana Gurukulam College of Engineering, a team from Rajagiri school of engineering & Technology and a team representation from RCET and the event was judged by Mr. Narayanan P P and Ms. Radhika E R from ECE department.

The game contains two levels, league and final. Each game is of 120 seconds with 30 second break after first 60 second. Cool of time of 30 seconds can also be availed by each team for one time in a game.

All the teams participated well and from the league match the teams from SNGC were qualified for the final. Manu & team, (SNGC 2) dominated over Johan and team (SNGC 1) in the finals and they grabbed the first prize in ROBOWAR



The prize distribution was done by Mr. Haridas V K, HOD (in-charge), EEE dept. The Participants as well as the audience enjoyed this event. The atmosphere created by the ROBOWAR at the courtyard was fantastic. As a whole the program was a success, and for this we would like to thank our student coordinators, teaching and non teaching staffs of EEE Department and Management for their full support and encouragement. We are also thankful to our respected Principal for his motivation and guidance.

ROBOWAR WORKSHOP





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.

AURDINO WORKSHOP



With an objective to provide an opportunity for students to get aware of AURDINO and thereby developing a stepping stone towards the development of embedded systems, EEE department of RCET conducted a workshop on AURDINO for S5 EEE students. Mr. Sterlin P S, student, S7 EEE was the resource person. He explained the parts of an AURDINO 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.

WORKSHOP ON PHOTOSHOP



Vishnu K ,Student of S5 EEE conducted one day class on ‘ Adobe photoshop’ on 3/02/2018.

The class was about the variou 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.

BANKING AWARENESS CLASS



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 was the resource person.