

Department of Electrical and Electronics Engineering

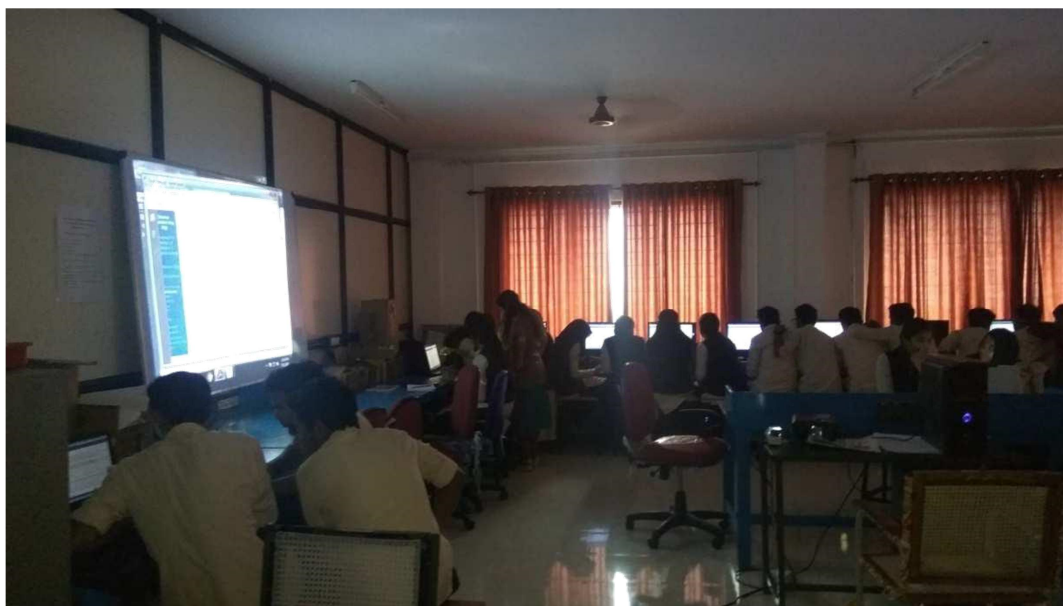
Three Day Workshop on “Document Preparation using LaTeX”

11th July- 13th July 2018

Department of EEE in association with **ROYAL ADVANCED CAREER EDUCATION CENTRE** and **IE(I) student’s chapter of RCET** conducted a Three day workshop for fourth year students of EEE during 11th to 13th July 2018. The Program was coordinated by Ms. Able Alex. (Asst. Professor, dept. of EEE) and Mr. Sanjith Mohan. (Asst. Professor, dept. of EEE). A total of **42** students attended the workshop and an amount of Rs.100/- was collected as registration fee. The schedule, venue and detailed report of the workshop is given below.

Venue: **Advance Electrical Lab (EEE Block)**

Date	Resource person	Topic
11-07-18(FN)	Ms. Sangeetha Gopinath (AP,ECE)	LaTeX
11-07-18(AN)	Ms. Nikitha V P (AP,ECE) Ms. Sangeetha Gopinath (AP,ECE)	
12-07-18(FN)	Ms. Nikitha V P (AP,ECE) Ms. Sangeetha Gopinath (AP,ECE)	
12-07-18(AN)	Ms. Neethu K S(AP,EEE)	
13-07-18(FN)	Mr. Haridas V K (AP,EEE)	Load calculation & illumination schemes
13-07-18(FN)	Mr. Sajin (SIGMOS INDIA)	Introduction to MEP courses



The Program started on 11th July 2018 at 9:30am. Ms. Sangeetha Gopinath, Asst. Professor, dept. of ECE, handled the session. The importance of LaTeX was conveyed to the students. The basics of Latex; How to start writing a text file using latex, Creating Documents- Title, Font Effects, spacing and alignment were covered in the forenoon session. The Afternoon Session was handled by Ms. Nikitha V P, Asst. Professor, dept. of ECE and Ms. Sangeetha Gopinath, Asst. Professor, dept. of ECE. During Afternoon session the students were taught and given exercises on writing Mathematical formulae, numbering in LaTeX software tool.



The Forenoon session of second day was handled by Ms. Nikitha V P, Asst. Professor, dept. of ECE and Ms. Sangeetha Gopinath, Asst. Professor, dept. of ECE. The students were taught how to make tables with multicolumn and multirows, to caption and

label the tables in LaTeX and also to insert Pictures. The afternoon session was handled by Ms. Neethu K S, Asst. Professor EEE. During Afternoon session the students were taught and given exercises on report preparation in sample template.



The Forenoon session of third day was handled by Mr. Haridas V K, Asst. Professor, dept. of EEE. The session gave a brief idea of load calculation and different illumination schemes. In the afternoon session Mr. Sajin from SIGMOS INDIA gave a brief introduction about MEP courses.



The Valedictory function of the Three day workshop on “Document Preparation using LaTeX” was held at Advance Electrical Lab (EEE bloc k) at 3.00pm on 13th July 2018.

Ms. Neethu K S (Asst. Professor, dept. of EEE) welcomed the staffs and students present at the function. Ms. Amrutha M Chemmanur (HOD, dept. of EEE, RCET) and Mr. Haridas V K, Asst. Professor, dept. of EEE addressed the gathering and mentioned the importance of LaTeX software and internship program for the students. The Resource persons were honoured with memento and certificate of appreciation by Ms. Amrutha M Chemmanur (HOD, dept. of EEE, RCET) for their tireless effort in handling sessions of the three day workshop. Students were awarded the participation certificates by Ms. Amrutha M Chemmanur (HOD, dept. of EEE, RCET), Mr. Haridas V K. (Asst. Professor, dept. of EEE), Ms. Nikitha V.P. (Asst. Professor, dept. of ECE), and Ms. Sangeetha Gopinath. (Asst. Professor, dept. of ECE). The Students gave good feedback about the program.





Electrical and Electronics Engineering Department would like to express sincere gratitude to the respected Principal Dr. S P Subramanian, Ms. Amrutha M Chemmanur (HOD, dept. of EEE), Mr. Krishnakumar R. (HOD dept. of ECE), Mr. Haridas V K. (Asst. Professor, dept. of EEE), Ms. Nikitha V.P. (Asst. Professor, dept. of ECE), Ms. Sangeetha Gopinath (Asst. Professor, dept. of ECE), Ms. Neethu K S (Asst. Professor, dept. of EEE), Mr. Narayanan.P.P. (Asst. Professor, dept. of ECE), Mr. Sajin (SIGMOS INDIA), all other teaching and non-teaching staff in EEE dept. and Management of RCET for providing all the support for the smooth conduct of the programme.

REPORT ON SATURDAY ACTIVITIES UNDER ESCON- 04-08-2018

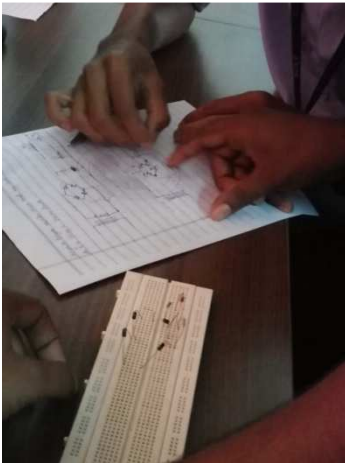
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

The department of Electrical and Electronics Engineering had organised various activities under “ESCON”(EEE department association) on 04-08-2018. The activities were conducted in such a manner that the whole EEE department students including the first year students had an active participation. The activities were coordinated by Ms.Neethu K S, AP, EEE and Mr. Sanjith Mohan, AP, EEE. The events conducted were:-

1. CIRCUIT DEBUGGING
2. POWER QUIZ
3. INTRODUCTION TO CALCULATOR TRICKS
4. CHESS COMPETETION

1. CIRCUIT DEBUGGING **Venue: AE lab(EEE block) and Electrical workshop**

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 coordinated by and Mr. Sanjith Mohan and Ms.Neethu K S. Student coordinators were Mr. Vishnu and Mr Rahul from S5 EEE.



It was conducted in 2 phases in order to eliminate and identify the winners. Overall 8 teams participated in the event and out of which 4 teams were selected to the second phase. In second phase each team was instructed to debug the error in the circuit provided. Mahshook and team from S7 EEE bagged the first prize and Gulsar and team from S7 EEE bagged the second prize. The event was very successful in improving the team spirit and circuit debugging skills of students.

2. POWER QUIZ

Venue: Room no 305 S7 EEE class room EEE block

An exciting power quiz competition was conducted at EEE department on 04-08-2018. It was coordinated by Mr Rajeesh and Ms Swetha, students of S7 EEE. Overall 6 teams participated in the event. Every round was a mixed bag with questions from power generation, Scientists and inventions, dams, coal fields etc.



The participants were very active and the students were very eager to know the answers. This quiz truly was a learning experience, for both the audience and the participants. At the end Krishnapriya and team from S7 EEE bagged the first prize and Shahid and team from S7 EEE bagged the second prize.

3. ACTIVITIES FOR S1 EEE/ECE STUDENTS

As a part of Saturday activities, students of S1 ECE/EEE were provided two active and informative sessions on **04/08/2018**. The session details as follows:

1) Image Description:

This activity was handled by Ms. Shiji (AP/ECE) who described the activity and displayed a picture and instructed students in group to either build up story or ideas based on the picture. This session improved lots of imagination as well communication skills of students. Students enjoyed the session.

2) Familiarization of Scientific Calculator:

This activity was handled by Mr. Dinto Thomas (AP/EEE) who explained the different functions inbuilt in a scientific calculator. Many problems or exercises were done during this session. The session was really informative and enhanced usage of the calculator. This session will aid the first year students for their upcoming semesters and the time utilization in examination can also be improved.



Highlights:

- It helps us to improve our writing skills.
- It enhances our creative thinking.
- It gives confidence to present in-front of everyone.
- It helps to manage our time and accuracy of answers with knowledge of calculator.

4. CHESS COMPETITION

EEE department had also organized a chess competition, the next level of which will be conducted on the coming activity day.



SATURDAY ACTIVITIES ON 29-09-18

1. RACE- INTRODUCTUION TO INDUSTRIAL WIRING

Resource team: SIGMOS INDIA



The department of EEE RCET, Akkikavu had organized add on courses for final year students. As a part of this SIGMOS INDIA at Kakkanad in Cochin, horizon of MEP consultancy and training services conducted the technical talk, based on MEP for final year students of EEE at RCET.

Now a days, everything turned to automatic. The main crisis of EEE aluminates is that they have no idea about how to make job, which type of area to be opted for job etc. So, MEP is the course which is mainly suitable for electrical engineers with added advantage of opportunity to attain STED certificate & placements. The precise coordination of utility distribution through the premises of our living and working spaces is an art, which is called MEO engineering. It include HVAC system, electrical system, plumbing and piping system, firefighting system, communication system etc. These are the main highlighted points discussed by Mr.Sachin Babu in the first section. Second section was more about practical knowledge. They familiarized various designs and single line diagram of flat, industries, house etc. They gave information about designing of electrical network work system and using software such as electrical CAD etc.

ROYAL AIM

TALK ON INNOVATIONS

Resource person: Mr. Daniel T Davy

On behalf of 'AIM' Electrical and Electronics Engineering department of Royal College of Engineering and Technology invited a young entrepreneur Mr. Daniel T Davy, One among the fondors of company Xilatron technologies to share his experience and knowledge with the students on 29/9/18. Daniel has a degree in mechanical engineering but pursued electrical and electronics as his working field after realizing his passion in it. He has won many award including

Acharya Jagadish Chandra Bose Award, Youth Icon Award, Best Mechanical Engineering Project Award in National level project expo etc.



In the session he shared his experience and thought the session he was like a a person one among the students and it made the session more interactive. He delivered a talk on “Innovations”. He made the students to understand what is the difference between an innovation and invention through some interesting activities. He also discussed what are the steps and precautions to be taken as an innovator. It was a very informative class. This talk motivated

and gave the confidence to students to take their steps towards a good innovator. On behalf of electrical department Mr.Haridas V K AP, EEE gave a memento to Mr.Daniel and thanked him for finding time to share his experience with the students.

INAUGURATION OF EEE DEPARTMENT ASSOCIATION “ESCON”

“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 of ESCON for the academic year 2018-2019 was conducted on 5th November 2018. The function was commenced with a prayer. Ms. Amrutha M Chemmanur , HOD, Department of Electrical and Electronics engineering welcomed the gathering. Dr. S P Subramanian, Principal, RCET delivered the presidential address.



The ESCON was officially inaugurated by Prof. Jayakumar M, Deputy Director, LBS (HO) by turning on a specially made solar antenna which emitted plethora of light. In the inaugural address he said that an engineer should notice very small facts of the world. He also encouraged entrepreneurship among students asked to come up with new ideas after completing the course. Prof V K Haridas Assistant Professor, Department of EEE introduced the Office bearers.

Mr. Mohammed Faris of S7 EEE was nominated as Secretary, Ms. Swetha Manoj of S7 EEE as Joint Secretary and Anudev M of S5 EEE as Treasurer



The Vth volume of department newsletter “REACH OUT” was unveiled by Jayakumar M, the chief guest of the function. Reach out highlights all the events and activities conducted in the EEE department during the last academic year. It was followed by prize distribution for meritorious students. Mr. Narayanan, AP, ECE and Mr. Arun Dev, Lab instructor, AEI were presented with a token of love from EEE department for their contribution and support to EEE department during tech fest “COGNITO 2k18”



The entire program wrapped up by vote of thanks by Mr. Mohammed Faris (Secretary, ESCON). He thanked all the invited guests, students & the audience around for gracing the occasion by their solemn presence. He also thanked the management for providing all kind of facilities to conduct such function.



Mr Jayakumar M delivered an invited talk which mainly focused on encouraging the spirit of research and innovations. He delivered a charismatic talk and provided many influential messages for the students.



ROYAL AIM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

TALK ON ROBOTICS

Resource person: Mr. Abdul Samad (Founder, CARET TECHNOLOGOIES)

On behalf of 'AIM' Electrical and Electronics Engineering department of Royal College of Engineering and Technology invited a young entrepreneur Mr. Abdul Samad, One among the founders of company "Caret technologies" to share his experience and knowledge with the students on 27/10/18. The main aim of the talk was to aware the students about robotics and the influence it will have in the future.



The session started at 2.00 pm. Around 20 students from mechanical department and 20 students from electrical department attended it. The session started with an introduction to robotics and its future scope. Along with the valuable information he also shared his personal experiences and journey as an inventor. He also offered a course for the interested students which will be

helpful for them to excel in this field. It was an informative class. After the session two robots were displayed that was a great inspiration for the students.



On behalf of electrical department Mrs.Amrutha M Chemmanur, HOD of EEE department gave a memento to Mr.Samad and thanked him for finding time to share his experience with the students.

Student Achievement:

- The students of S5 EEE Mr.Vishnu T, Delwin Joseph & Akhil M participated in the Hardware Hackathon organized by FISAT on 26/09/18 & 27/09/18
- Mr.Vishnu T (S5/EEE) participated in the workshop “Self Driving Car” organized by Indian Institute Of Space Science & Technology on 29/09/18 at Trivandrum

REPORT ON COGNITO 2K18 EVENTS ORGANIZED BY

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Royal College of Engineering & Technology organized a 2 day Technical Fest “COGNITO 2K18” on 5th & 6th of October 2018. The Fest was well organized by the co-ordinator Ms. MaryJohn C (HOD/CE) and Mr. DintoThomas (AP/EEE) was deputed as the department co-ordinator for organizing different events for the Tech Fest. Student Co-ordinators for this event were Mr. Shamsudheen T P & Mr. MuhammedAjmal C from S7/EEE. The main events conducted by EEE department are as follows:-

1. CIRCUIT DEBUGGING
2. MIND SPARK
3. ROBO WAR
4. DUNGLE HOHLE (HV ELECTRICAL EXHIBITION)
5. TREASURE HUNT
6. MAGNETICA

Event 1: Circuit Debugging

Date : 05/10/2018 Venue: EE Lab Room No. 119 (FN)

Circuit debugging was an event which showcased the talent and technical skills of students in designing and debugging a circuit within stipulated time frame. The event co-ordinated by Ms. Able Alex (AP/EEE) and Mr. Subilal P (S7/EEE). This event had three stages to complete. The participation for the event was good and 9 teams registered for the program. We had ample participation from our neighboring colleges such as Cochin college of engineering valanchery, SSM poly technic college Tirur, Malabar poly technic college and Government engineering college Trissur. Mr. Haridas V K (AP/EEE) & Ms. Able Alex (AP/EEE) were the judges for the event. The first & second prizes were bagged by the students of Malabar poly technic college. The certifications of both participation and excellence along with the cash prize of Rs.3000 & Rs.1500 for first & second prize winners respectively were awarded at the end of the event.



Event 2 : Mind Spark

Date: 05/10/2018 Venue: EE Lab Room No. 119 (AN)

Mind Spark was a platform for students to display innovative ideas and their presentation skills. The event was co-ordinated by Mr. Sanjith Mohan(AP/EEE), Ms. Neethu (AP/EEE) & Mr. George (S7/EEE). The event was organized in three rounds which included Quiz Round, Brainstorming Round& Mind Spark Round. For this event there was an ample external participation from various colleges around. Mr. Haridas V K (AP/EEE), Mr. Mohamed Iqbal Pallipurath (HOD/EEE) & Mr.Sangeeth T S (AP/ME) were the judges for this event. The team from Malabar Polytechnic College, Cherpulassery bagged the first prize and another team from the same college bagged the second prize too. The prizes for winners were distributed by the respected judges and participation certificates were distributed by Mr. Haridas and Mr.Sangeeth. The event was enjoyable & was a great success.





Event 3: Iron Hide [RoboWar]

Date: 6/10/2018 **Venue:** Courtyard

The Electrical & Electronics Engineering Department of Royal College of Engineering & Technology conducted IRONHIDE ROBOWAR as a part of the Technical Fest COGNITO'18. The event was coordinated by Mr. Sanjith Mohan (AP/ EEE) along with the student coordinators Mr. Safeer (S7/ EEE), Mr. Gulsar (S7/ EEE) and Mr. Sachin Jose T (S5/ EEE). In total of three teams from various colleges around participated and the event was judged by Mr. Narayanan (AP/ECE) and Mohammed shafad.



The game had two league levels. In First league level each game is of 180 seconds with 60 second break after first 120 second. Cool of time of 30 seconds can also be availed by each team for one time in a game.



In the second league level each game is of 90 seconds with 30 second break after first 45 second. Cool of time of 30 seconds can also be availed by each team for one time in a game. Two teams were from AdishankaracollegeMatoor, and one team was from MES Ponnani. MES Ponnani secured First prize and one team from Adishanka secured second prize.



The prize distribution was done by Mr. Moidunni,(Secretary RCET).The Participants as well as the audience enjoyed the event.

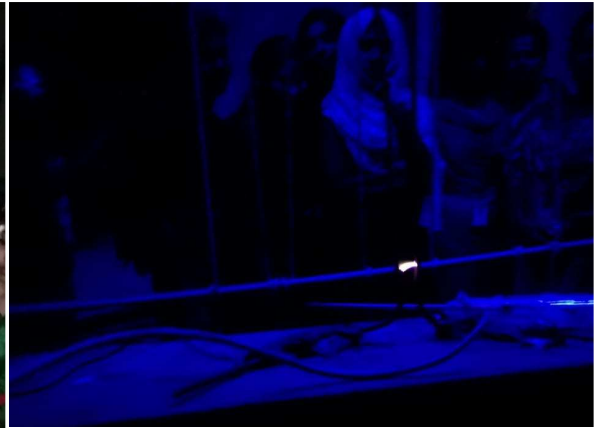
Event 4: DungleHohle [HV Exhibition]

Date: 5/10/18 & 6/10/2018 **Venue:** Room No.125 [Main Block]

DungleHohle was an exhibition conducted by EEE department. It was a 2 day event which showcased the technical talent of the students of EEE department. The main highlights of the exhibition were the infinity mirror, jacob's ladder, plasma globe and tesla coil which are placed in a dark room. All the circuits were designed and executed as working circuits is done wholly by the students of EEE department. The event was wellco-ordinated by Mr. Kiran P (AP/EEE) and Mr. Adhil Salman / Mr. Faris (S7/EEE).

On 5th Oct 2018, students from nearby schools visited the exhibition hall and our student volunteers explained them the working and the circuit designing. Many students and faculty members from RCET also visited the exhibition hall on both days and gave positive feedback about the exhibition.





Event 5: Treasure Hunt

Date: 5/10/2018 [full day] Venue: Main Stage & Hut Area

On behalf of Tech-fest **COGNITO 2018** Electrical & Electronics Department organized an event named **TREASURE HUNT** which was basically an event to track treasure by using different clues. It was conducted on 1st day of Techfest 5th October 2018. The program was well organized by Mr. Praveen KP (AP EEE), Vishnu K (S7 EEE) and Sinu Sidheeq T (S7 EEE). The program was conducted on spot registration. 15 teams from different colleges participated in the event. The hunt totally was organized in 3 rounds and 5 teams were eliminated in the first round. And in the second round again 5 teams were eliminated. So for final round total of 5 teams were selected. The team from Malabar Polytechnic College cleared all the hurdles, and finally won the treasure of 5K Rupees.





Event 6: Magnetica

Date & Venue: 5/10/2018 & 6/10/18 [full day] & Near College Reception

As a part of the Intercollegiate Tech Fest- COGNITO-2k18 at Royal College of Engineering and Tehcnology, Akkikavu, a gaming Event 'Magnetica' was organized by the students of EEE Department. The event was held on 5th and 6th October 2018 at the reception area of the Institution. The event was co-ordinated by Ms. Swathi S B (AP/EEE) and the students Ajmal N M &Mahshook V P from S7/EEE.The game is played in similar fashion to regular air hockey, albeit with a magnetic puck and a striker. The puck and the striker is controlled through magnetic field. Each player will be given a puck to repel the striker. Points will be earned by moving the striker into opposing team goal post.

On 5th Oct,2018 a total of 10 students participated for the event. Of them about 6 students were from other institutions. The First prize was bagged by Mr.Safwan (S5/CE).Ms.Vijitha of Universal College of Engineering won the second prize. On 6th Oct, 2018 a total of 17 students participated in the gaming event .Mr.SafwanA , (S5/CE)RCET won the First Prize and Mr.MuhammedFaseeh received Second Prize. The certifications of both participation and excellence along with the cash prize were also awarded

The Event attracted many spectators. Faculty and other staff of the Institution also played the game (informally).







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 the Management for their full support and encouragement. We are also grateful to our beloved Principal for his motivation and guidance through out the event.

SATURDAY ACTIVITY REPORT (02-02-19)

1. WORKSHOP ON LED PRODUCTS

Resource persons: Ms. Neethu K S (AP EEE)

Mr. Sanjith Mohan (AP EEE)

Ms. Supriya (TS, EEE)

As a part of Saturday activities, Department of Electrical and Electronics engineering conducted a workshop on “LED products” for S2 and S4 students. The session aimed at providing basic knowledge about electronic circuits and its assembling, soldering etc. 35 students attended the workshop.



The first session started at 1.00 pm in which Mr. Sanjith Mohan gave a lecture on basic LED driving circuit. He explained about various components handled in the circuit and its working.



The second session conducted at Power Electronics lab. It was handled by Ms. Neethu, Mr. Sanjith and Ms Supriya from EEE Department. Students were divided in to various groups and they were instructed to cut the cardboard in to different shapes and place LED s in it. They assembled the components of driving circuit and soldered the same with the help of faculties.



Students were very enthusiastic to do all these things and they completed the circuit within a short period of time. They have given good feedback on the session conducted.

2. WORKSHOP ON ARDUINO

Resource persons: Vishnu T, Akhil M, Rahul A (S6 EEE)

Aiming to provide an introduction to the electronics technology for the first year students a workshop on ‘introduction to embedded systems and arduino’ was held on 02/02/19 by EEE department.



The session started at 1.00 pm and it was handled by Mr. Vishnu T(S6 EEE). The workshop started by giving an introduction to embedded systems, microcontrollers and microprocessor and application in daily life.



After that he introduced the concept of Arduino programming and explained the details of Arduino board. Around 25 students attended the workshop and the session concluded at 4.00 pm.

SATURDAY ACTIVITY REPORT (16-02-19)

This Saturday (16-02-2019) was something different from the previous activity days. The most interesting thing was that all activities were organized by students and both teachers and students actively participated in all events.



On 16th February 2019, students of first year ECE and EEE organized "Students-Teachers" activities. With the support of HOD and other faculties of EEE department, students conducted 5 activities in the afternoon session. The various activities organized by students were chess, fun quiz, paper dance, action game and treasure hunt.



With the active participation of both students and teachers, the session went smoothly and enjoyable to all by making a better understanding and relationship between teachers and students. The session intended to improve organizing and leadership skills of students. It was totally a different experience for the students and teachers.



The session concluded at HOD room. Excellent feedback was given by the students at the end and snacks were distributed to students for their active participation. The session helped to bring out the best student teacher collaboration.

REPORT ON AIM (25-02-2019)

On behalf of 'AIM' Electrical and Electronics Engineering department of Royal College of Engineering and Technology invited Mr. Shimmeer P P, Former Assistant professor of EEE department and currently working as Electrical Inspector, Malappuram. He completed his B. Tech from University college and M.Tech from College of Engineering Trivandrum.



The session was conducted on 25-02-2019 for S8 and S6 students. He delivered a talk on career opportunities for Electrical engineers. He explained about various opportunities in public sector and Government sector. The talk emphasized on the importance of GATE exam for those who are interested in pursuing further studies or to get a job in public sector.



He discussed on cracking PSC and SSC examinations and further emphasized the scope of pursuing a career in electrical engineering. He inspired the students by sharing some personal anecdotes from his life. At the end of the session Ms. Amruthe M Chemmanur delivered vote of thanks and Mr. Mohammed Ajmal gave feedback on the session.

