

ROYAL COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT ACTIVITIES REPORT (2019-20)

Department Activities

- ✓ The Amrita Vidyalayam, Chavakad, Thrissur organized a science exhibition on 10th and 11th of January 2019 under the title “Jnanotsav”. As the part of department of “Jnanotsav” department of mechanical engineering, RCET organized a Auto Expo. The objective of the exhibition is to impart a basic knowledge about automobiles. The following items displayed on this occasion

Displayed exploded version of a car and new generation car on Flex.

Displayed two and four stroke engine cylinder.

Displayed components of four stroke engine cylinder.

Displayed videos on working of automobiles.

Displayed Tools -open end spanner, double end and closed end spanner.

Displayed Hybrid Cycle.

Displayed various projects developed by students – Stair climbing wheel chair, Acoustic fire extinguisher, Vacuum black board duster, cooling seat and Magnetic chuck.

Displayed optical illusion sculpture.





Photos from Jnanotsav

- ✓ Malabar Polytechnic, Kottakkal Organized a three day Tech Fest “AMECA-2019” on 24th to 26th of January 2019. As the part of “AMECA-2019”, department of mechanical engineering, RCET organized an exhibition. Various students projects like Stair climbing wheel chair, Acoustic fire extinguisher, Vacuum black board duster, cooling seat, Magnetic chuck and optical illusion sculpture are displayed at that occasion.



Photos from AMECA-2019

✓ **“Journey Towards Excellence”**

The association of Royal Mechanical Engineers (ARME) organized a soft skill training program under the title “Journey Towards Excellence” for second semester mechanical and civil engineering students on 16/2/2019. The session one was handled by Mr. Subair.P, soft skill trainer. The objective of this session was to inspire the students for set a goal and ambition in life. The resource person handled the session through various activities and each activity concluded by a message. The messages from various activities are as follows:

1. Seriousness of decision making.
2. Seriousness of setting an object.
3. Role of a Leader.
4. Roamer spreading.
5. Role of listening and presentation.
6. All of us are unique- Know the strength and weakness.

At the end of the session a memento was given to the resource person. The students given vote of thanks by mentioning feed back of the session. The students actively participated in all activities.



Snap of "Journey Towards Excellence"

✓ **TECHNICAL EXHIBITION AT KMCT POLYTECHNIC**

KMCT polytechnic, kuttipuram organized a three day Tech Fest from 14th February to 16th February 2019. As part of it the department of Mechanical Engineering and Electronics and communication engineering together conducted a project exhibition on 14th and 15th February 2019. The exhibition includes the following:

Displayed exploded version of a car and new generation car on Flex.

Displayed components of four stroke engine cylinder.

Displayed videos on working of automobiles.

Displayed Tools - open end spanner, double end and closed end spanner.

Displayed Hybrid Cycle.

Displayed various projects developed by students – Stair climbing wheel chair, Acoustic fire extinguisher, Vacuum black board duster, cooling seat and Magnetic chuck.

Displayed optical illusion sculpture.

There were almost 1000 visitors which includes the students of various polytechnic, students and parents from nearby schools. The Principal, KMCT mentioned good remarks for the active participation and presented certificate of appraisal.





Snap of Technical Exhibition at KMCT Polytechnic

✓ “JOURNEY TOWARDS EXCELLENCE 2”

The Association of Royal Mechanical Engineers organized the session 2 of Journey towards excellence, “Art of Character Building-A Music Workshop” on 2/3/2019 at seminar hall from 1.10pm to 3.50pm. The second semester students of civil and mechanical engineering attended the session. The session handled by Mr.Sangeeth.T.S, AP, ME, RCET with the assistance of Ms. AshtamiChandran (Violin) and Mr.Vimal Thrissur (Mrudangam).

Along with developing physical strength, the mental strength also has to nurture. The mental strength can be improved by 1.Laughing, 2.Praying, 3.Meditation, 4.Doing something difficult and 5. Good hobbies. The hobbies must be regular, creative and carried during leisure time. The suggested hobbies are writing, reading, Collections, Arts and Meditation. These hobbies can nurture our mind by creative thoughts and imagination. The class proceeded by playing film music and correlating it with classical music. While handling the session the students are praised by trophies for answering different questions regarding music. The session concluded by reminding relationship among mother, father and teacher. At the end of the session, messages given to the students are as follows:

1. Find the blessings from mother, father and teacher through our actions which will help you to find the path forward in difficult circumstances.
2. Enjoy the result by taking pains of preparation.
3. Nurturing mind will lead to happy life.
4. All great personalities have good hobbies to nurture their mind like Dr. A. P. J. Abdul Kalam plays “Veenna”, Dr.K.Radhakrishnan Sings south Indian music etc
5. Become ourselves as an entertainer through good hobbies so that we can avoid unnecessary entertainment such as Tiktalk, mobile phone, chatting, wandering with friends and so on.



Snap of “Journey towards Excellence 2”

✓ A FELICITATION CEREMONY-DHANAK 2K19

Department of mechanical engineering organized a felicitation ceremony, for who got Prizes in arts fest DHANAK 2K19. The program organized on 19th march at 2.50pm in ME Block. The program started with a welcome speech of **Mr.Sangeeth T S** [HoD, ME]. Dr. S.P.Subramanian [**Principal, RCET**] delivered Principal address by congratulating the students, who got prizes in DHANAK 2K19.



Snap of “A FELICITATION CEREMONY-DHANAK 2K19”

✓ A FELICITATION CEREMONY- S1 KTU EXAM DEC 2018

Department of mechanical engineering organized a felicitation ceremony, for who got best result in S1 KTU Examination December 2018. The program organized on 30th April 2019 at 11.15pm in S2 class room. The program started with a welcome speech of **Mr.Ranju Joy**

S[Tutor,S2ME].Mr.Sangeeth T S[HoD, ME] delivered Presidential address by congratulating Rinsha P K, who got best results in S1 KTU Examination Dec 2018.



Snap of “A FELICITATION CEREMONY-S1 KTU Result Dec 2018”

Department of ME, RCET has conducted a Three Day Internship Program on “Introduction to MEP/NDT/Oil & Gas/QC/HVAC”. The program was coordinated by tutors of S7 ME A&B. The entire program covers a basic view in specialized areas in Mechanical Engineering such as Mechanical Electrical Plumbing, Non-Destructive Testing, Oil & Gas field, Quality Control and Heating Ventilation & Air Conditioning. The session was handled by Mr. Majeed, a technical expert from **‘Prime HVAC & MEP Engineering Academy’, Kozhikode**. Topics held are:



Day 1

The second day session was handled by Mr. Sangeeth, a technical expert from [‘Decibel NDE/NDT Inspections & Training Institute’, Pattambi.](#) Discussed various topics like (PT, RT, UT, MT) NDT certification procedures (Level I, II & III), Introduction to Oil & Gas Field and ASNT standards



Day 2(FN Session)



Day 2(ANSession)

Lab Visit

The students were taken to [Decibel NDE/NDT Inspections & Training Institute, Pattambi](#) for giving practical experience on the areas covered on Day-1 of the internship program. Various activities held are:

The students were familiarized with the NDT Testing equipments in the lab.

Practical Experience in NDT procedures

Practical Experience in NDT Pre-Test and Post Test procedures

Analysis of test result



Day 3(Lab Visit)

Conducted Staff meeting on 30th July, 2019 at 1 PM in HOD Room.

✓ INAUGURATION OF SKILL DEVELOPMENT PLATFORM

Department of Mechanical Engineering has inaugurated Skill development platform on 3rd August 2019. The skill development platform is intended to improve the soft skill, professionalism and student-teacher interactions. The program was inaugurated by Mr. Sangeeth HoD of Mechanical Engineering. In the speech he gave a great message "ENJOY THE RESULTS BY TAKING THE PAINS OF PREPARATION" to his beloved students. He motivated the students by the life stories of great singer Mr. Sidsiram and world famous cricket player Mr. Virat Kohli. The tutors of various classes addressed the audience, to achieve success and to keep up the successes, also instructed to utilize the changes happening in the modern world. Then the program is made more interesting by the cultural programs of staffs and students.



Snapshots from Inauguration of skill development platform

✓ **A HELPING HAND TO THE TRIBAL FAMILIES IN ATTAPADI**

Association of royal mechanical engineers ARME, held a helping hand for distributing onam kits for the flood-affected families in tribal area of Attapadi on 2nd August 2019. The ARME led an initiative to collect basic supplies and distributed as onam kits. The team of 6 members; Naseeh Rahman, Nousehad, Sreerag P V, Shaniljith, Mohamed Shafee Rahman and Mohamed Niyas were co-ordinate the programme.



Snapshots of helping hands to the tribal families in Attapadi

✓ SKILL DEVELOPMENT PLATFORM II

Department of Mechanical Engineering organized second Skill development platform on 17th August 2019 at 2 pm. The program was inaugurated by Mr. Ibish T Sunny HoD in charge of Mechanical Engineering. In the speech he gave a great message as “Future is the result of present, but past is an experience. Concentrate on present to generate bright future.” The tutors of various classes addressed the audience, A beautiful song sung by Mr. Muhammed Niyas from s7 ME B. Mr. Raisen Joy, AP, ME conducted Brain storming session. He asked to form a group of 6 members consisting of students from each class and given them a problem as to "DERIVE A MECHANISM, PRODUCT OR AN IDEA THAT PREVENTS BREAKAGES OF PHONES WHEN IT FALLS". In the first session, each member of team to write their own ideas in the paper. The second session evaluates the overall ideas of each group. In the last session, the teacher invited group member to present idea in front of the audience.



Snapshots from Brainstorming session

✓ **SKILLDEVELOPMENT PLATFORM III**

Department of Mechanical Engineering organized sThird Skill development platform on 31st August 2019 at 2 pm. The program inaugurated by Mr. Sangeeth T S, HoD Mechanical Engineering.

Department of Mechanical Engineering organized Third Skill development platform. The program inaugurated by Mr. Sangeeth T S, HoD Mechanical Engineering with felicitation. Mr. Raisen (AP, ME) has announced the winners of brainstorming session conducted last week and awarded the trophy for the best brainstorming idea.

Students from S₃, S₅, S₇ has participated in various cultural activities. Mr. Sangeeth (HoD, Mechanical Engineering) and Mr. Geno (AP, ME) performed an eye catching duet performance. Mr. Yoosaf P P (AP, ME) presented a technical presentation which ignite the fire in student's hearts. He shared Thomas Edison first presentation of his first discovery.



Snapshots from Skill Development Platform

Department of ME in association with RACE organized a seminar on “NDT/Oil and gas” on 18/10/2019 AN for S7 ME A&B students. The session was handled by Mr. Sangeeth a technical expert from **‘Decibel NDE/NDT Inspections & Training Institute’, Pattambi**. He Discussed various topics like (PT, RT, UT,MT) NDT certification procedures (Level I,II&III) and ASNT standards. Mr.Rahul, Technical expert from ARAMCO addressed the students and discussed about various job opportunities in the industry.



Snap from Seminar on NDT,QA and QC

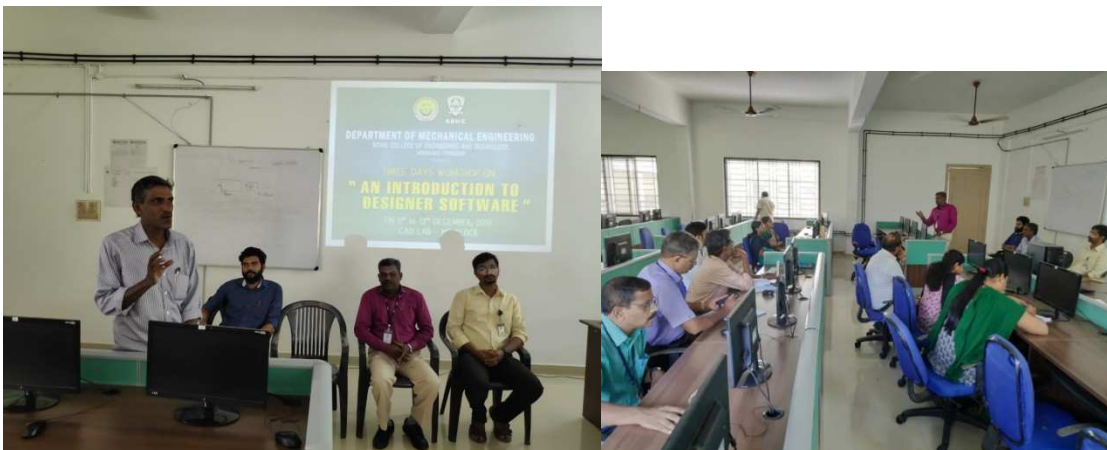
Felicitation Ceremony

Association of royal mechanical engineers (ARME) organized a felicitation ceremony for those who got prize in sports 2K19 on 15/10/2019.



Snapshots from Felicitation ceremony

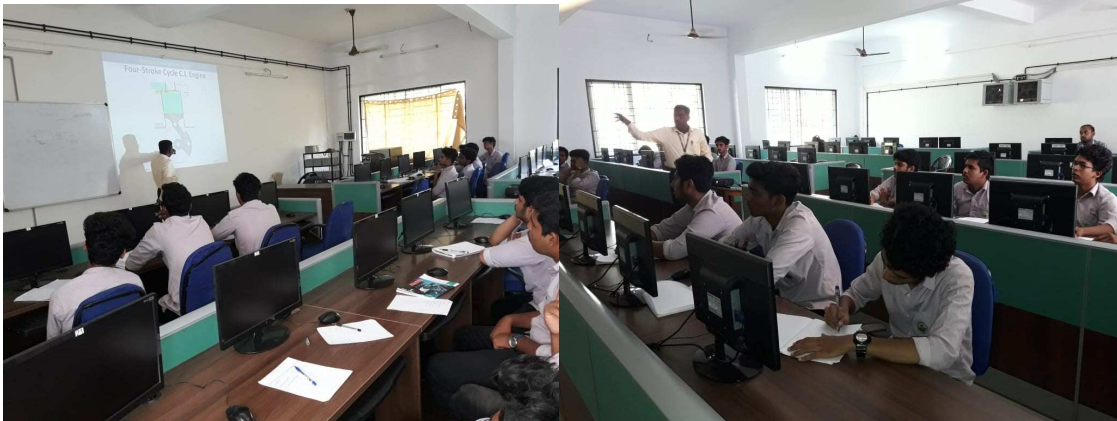
Conducted Three days workshop on “AN INTRODUCTION TO DESIGN SOFTWARE (CAD/INVENTOR)” for lab instructors from ME & CE Department On 11th to 13th December, 2019.



Snapshots of Three days workshop for lab instructors

Conducted three days internship program for S2 mechanical engineering students from 30th

December onwards.



Snapshots of internship program for S2 mechanical engineering