



NEWSLETTER

MExpress



Department of Mechanical Engineering, KUMARAGURU COLLEGE OF TECHNOLOGY

Vol. 02 No. 01

For internal circulation only

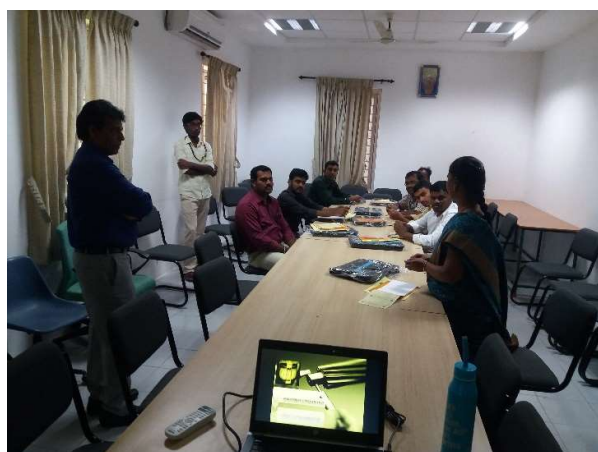
01.08.2018 – 31.08.2018

Editors: Dr. C. Velmurugan, Mr. B. N. Sreeharan

Associate Editors: Mr. Kapil, Mr. K. Arun,

Programmes Organized

- A one-day training programme was organized jointly with Coimbatore Productivity Council [CPC] on "Measurement System Analysis" on 18.08.2018.



Mr. Paramasivan, Consultant, CPC trained the participants.



Mr. R. S. Mohan Kumar, AP/ME along with Mr. M. A. Vinayagamoorthi, AP (II)/ME coordinated the event.

- Hands on workshop on "Coordinate Measuring Machine (CMM)" was organized in the department on 20.08.2018.



Mr. Sivanesan P, Chief Operations Officer, Innovative Engineering Services, Coimbatore being the Chief Guest.



Mr. T. Karuppusamy, AP (II)/ME and Mr. B. N. Sreeharan, AP (II)/ME coordinated the event.

TNSCST Proposals Submitted

The department submitted the following proposals to TNSCST grant.

1. Design and Fabrication of Pantograph for Goods Collection
2. Design and Fabrication of Solar Flat Plate Copra Dryer Incorporated with Eco Friendly Thermal Storage Materials
3. Design and Fabrication of Solar Powered Poultry Incubator Using PCM
4. Experimental Study of Physical and Mechanical Properties PF Rice Straw-Banana Fibre Mineral Boards
5. Solar Vapour Absorption Refrigeration with Ammonia by using Parabolic Dish Concentrator
6. Design and Fabrication of Machine for Core Separation in KENAF plant.
7. Development of Coconut Handling and Counting System
8. Design and Fabrication of Triunity Suspension for Off-Road Vehicles
9. Thermal Analysis of Busbar Under Forced Convection
10. Design and Fabrication of Die
11. Productivity for Profitability
12. Experimental Study of Hydrophobic Nature of Coir-Rice Straw Bonded Magnesium Oxide Board
13. Study of Lubricating Behaviour Of Pyrolyzed Cardanole Oil With MoS₂ To Improve Engine Lubrication

Workshop attended - Students

- Followings students from 2nd year Mechanical attended a One Day Workshop on International conference on Arduino in Robotics on 31.08.2018 conducted by Coimbatore Institute of Technology, Coimbatore.

Mr. Balaji P	Mr. Umapathi
Mr. Balaji ML	Mr. Kishore
Mr. Sachinjith K	Mr. Abilash
Mr. Arun Kumar A	Mr. Sridhar
Mr. Gowtham S	Mr. George Stephen
Mr. Pradeep	Mr. Logesh
Mr. Sethu	Mr. Ruba Kumar

- Mr. Muralidharan from 3rd year Mechanical B participated in Co-Ordinate measuring machine conducted by Kumaraguru College of Technology on 20.08.2018.

- Mr. Arun Raja M, Mr. Agneesh, Mr. Kiran K participated in Workshop on "5 Stroke Engine and Valve technology" in Chennai on 18.08.2018

Industrial visit

- Mr. Ram Kumar C, Mr. Lokesh Kumar from 3rd year Mechanical B undergone Industrial visit in Grundfos Pumps India Pvt. Ltd, Chennai on 10.08.2018.

Mechanical Engineering Association

The Association conducted the selection process for various postings on MEA and the following students were selected for various postings in MEA.

Name	Designation
GOKUL PRASATH V P	SECRETARY-ACADEMICS
RALLISH RAHUMAN KHAN.J	SECRETARY-EXTRA CURRICULAR
ASHWATH D	JOINT SECRETARY-ACADEMICS
CHARAN V	JOINT SECRETARY-EXTRA CURRICULAR



Executives:

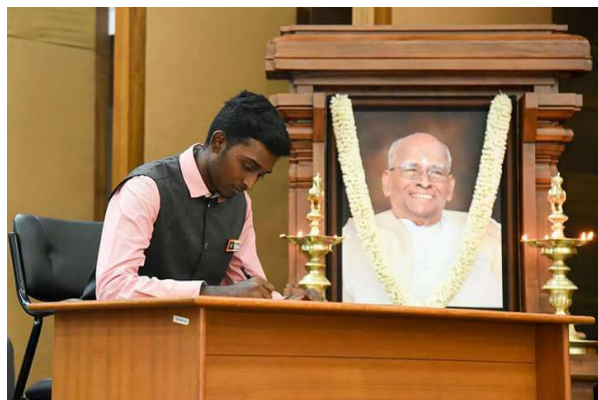
- | | |
|--------------------|------------------|
| • SIVA ADHAVAN | • RISHIKESH |
| • NETHAJI SUBASH | • KARTHIK RAJA |
| • SANJAY R | • HARSHAVARDHAN |
| • ARUN K | • ARCHANA |
| • GOKUL ANANDHAN | • KAPIL ANANDH |
| • VASANTH E | • KAVIN PRASANTH |
| • MURALI KRISHANAN | • KRISHNAKATH |
| • BALA VIGNESH | • KUMARAN |
| • ARUN GP | • RAGULKANTH |
| • DHARUN | • ROJAN |
| • SHIVA | • RUSHETHRA |
| • NAVEEN KIRSHNAN | • UMAPATHI |
| • VINOJ | |

Our Students in Leadership Council

The following students from Mechanical department representing various posting in Leadership Council



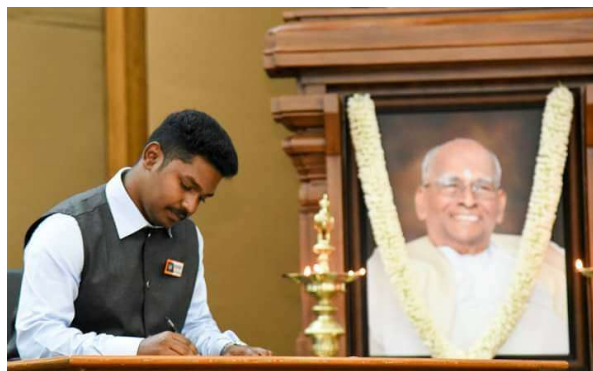
Mr. AKILAN- Department Association



Mr. VALLIAPPAN. R. M - SPORTS



Mr. MALAIKKOLUNDHU - GARAGE



Mr. VENKATACHALAM- ENTREPRENEURSHIP



Mr. Naveen R K -Social activities



Mr. Navin Raja- Fitness



Mr. Davin Anson – PG Forum

Events attended

- Dr. V. Muthukumar, Prof./ME, Dr. K. M. Senthil Kumar, ASP/ME, Mr. P. D. Devan, AP/ME participated in NPTEL workshop conducted by IIT Madras, at K. Ramakrishnan College of Technology, Coimbatore on 27.07.2018.
- Mr. Jagadeep S participated in Mutamil Vizha in Government College of Technology, Coimbatore.
- Mr. Bala karthikeyan S participated in RDC camp conducted by Angel College of Technology, Tirupur.
- The following NCC ARMY Cadets Mechanical department took part in Independence Day celebrated in our institution.

• CPL. R. S. Jayaprasant	• Cdt. N. S. Thilesh
• SGT. M. Ragupathy	• SGT. S. Sibi
• Cdt. S. Balakarthikeyan	• Cdt. J. Ajay
• SGT.S. Vikash	• Cdt. S. Pradeep



They also attended the CATC camp conducted at PSG college of technology from 29.06.2018 to 08.07.2018 and also they had secured first place in Cultural events.



- Cdt corporal A. Anish-16BME129 from AIR WING of KCT had attended CATC Camp 2018 conducted at KSR College of Engineering, Thiruchengode.
- Our Mechanical department students from Baja team participated in Virtual Baja SEA 2018 conducted in National level and selected for BAJA SAE 18-19 event and secured 46th place in India level and 1st in Coimbatore zone.
- "Aadhivasi" an unusual show was played by the play house of KCT called 'DRAMA TROUPE' on 6th August in KCT, where our department students involved.



- Students of our department participated and won in Variety Show in Aura conducted by Pondicherry Institute of Medical Sciences (PIMS) between August 8th – 11th, 2018.



Reach us at:

da.mec@kct.ac.in



KUMARAGURU college of technology

COIMBATORE – 641 049

Department of Mechanical Engineering

Vision

To facilitate mechanical engineering education, research and services that contribute to the advancement of scientific knowledge leading to social development.

Mission

The Department is committed to provide quality education and training with emphasis on engineering fundamentals and applications to the students to be competent professionals with ethics. The department executes research and provides engineering services for sustainable development of society.

Programme Educational Objectives (PEO's)

1. Graduates will take up carriers in manufacturing and design related sectors.
2. Graduates will be involved in the execution of mechanical engineering projects.
3. Graduates will take up educational programmes in mastering mechanical engineering science and management.

Program Outcomes (PO's):

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs):

1. Apply the fundamentals of engineering and mathematics to solve complex problems in the field of design and thermal sciences.
2. Apply the concepts of industrial engineering and management in the field of manufacturing engineering.