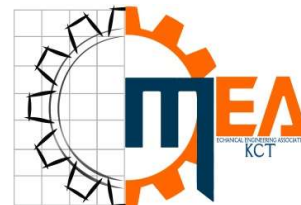




NEWSLETTER

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Department of Mechanical Engineering, KUMARAGURU COLLEGE OF TECHNOLOGY

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

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

Industry Institute Interaction

- Dr. V. Muthukumar, Professor/ME visited at M/s. CRI Pumps Limited, Coimbatore to have a better industry institute interaction on 05.01.2019.
- Dr. B. Senthilkumar, ASP/ME had a technical discussion with WRI Officials on new project proposal on 21.01.2019.
- Dr. N. Sangeetha, ASP (Sr)/ME visited M/s. General Motors TCI to meet Vice President, Mr Brian Mc Murray on 25.01.2019 between 01.00 PM to 02.00 PM for the face to face discussion to discuss on the Master's degree / Post Graduate Diploma in Computer Aided Engineering (CAE) course details and plan to launch the program .

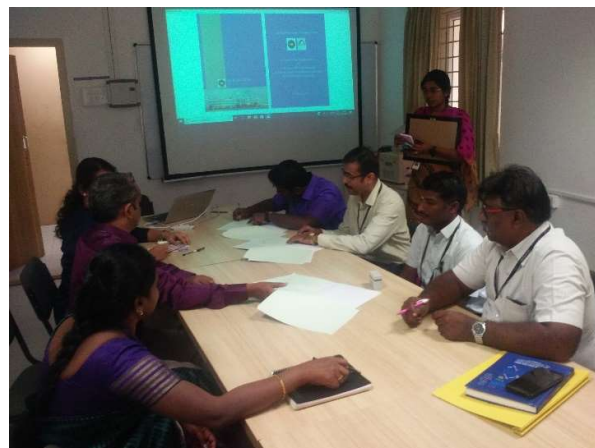
Industrial Visit



50 students of first year B. E. (Mechanical Engineering) students visited M/s. SIBI Polymers, Kalapatti, Coimbatore, on 25.01.2019. Dr. S. Balasubramanian, ASP/ME arranged, coordinated and accompanied the students for the visit.

MoU

- This month the department along with the Department of Electrical and Electronics Engineering signed MoU with M/s. Ampere Voltage Consulting Private Limited, Coimbatore on 30.01.2019.



Dr. V. R. Muruganatham, ASP/ME and Mr. B. Jeeva, AP/ME coordinated the event.

Programmes participated

- Prof. T. R. Sukumar, ASP/ME attended a seminar on "Fostering Teaching Learning Practices for Design Thinking Curriculum in Higher Education" at SNS College of Engineering, Coimbatore during 10.01.2019 and 11.01.2019
- Dr. N. Sangeetha, ASP (Sr)/ME attended the Pre-synopsis Doctoral Committee meeting for Mr. VIPIN GOPAN (Reg. No: RP14ME001) at Karunya Institute of Technology and Sciences, Coimbatore as an external member 24.01.2019.

Journal Publication

Mr. B. N. Sreeharan, AP (II)/ME published a paper titled "Investigation on the microstructure and mechanical behaviour of Post-Weld Heat Treated AA6351 Aluminium Weldments" in the International Journal 'Material Research Express', Vol. 6, No. 4, pp 1 – 10, <https://doi.org/10.1088/2053-1591/aafc3b>.

Mechanical Engineering Association

Skill Development courses

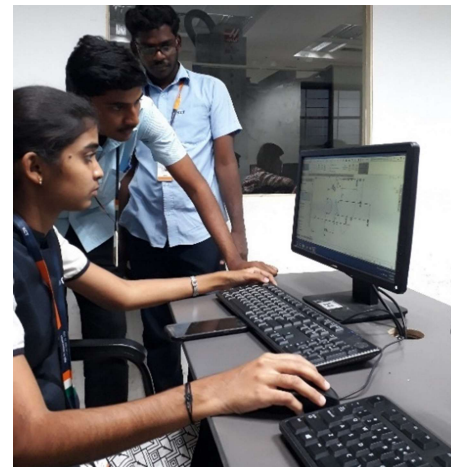
- Mechanical Engineering Association organised a "Skill Development Course" for 1st year mechanical students from 21st January to 25th January 2019. Four different courses were handled by student experts. About 47 students got benefited by this program under four different courses.



- Vehicle Overhauling was handled by Mr. Arun K, 3rd year Mechanical.



- Arduino, Raspberry Pi and Node MCU was handled by Mr. Sathish Kumar and Mr. Dhinesh Kumar from 3rd year Mechatronics.



- Modelling (Solidworks) was handled by Mr. Vijay Balaji and Mr. Sankar 3rd year Mechanical.



- Welding was handled by Mr. Abinesh 3rd year Mechanical.

- The overall Course was Co-ordinated by Mr. Aswath, Joint Secretary (Academic) and Mr. K. Arun, executive of Mechanical Engineering Association.
- On 25th Jan 2019, Certificate Distribution Ceremony was organised by the Association.



- Beloved Principal Dr. J. Senthil honoured the student experts with a memento for their contribution and delivered a Special address to 1st year mechanical students on "How to develop our Technical skills"?
- Dr. C. Velmurugan, HoD/ME, delivered key notes speech about How to become an industry ready engineers.
- Mr. Akilan K, President of MEA, delivered a speech on various opportunity for mechanical students in diverse field.

Mech_Master:



Winners of this episode of Mech_Master:

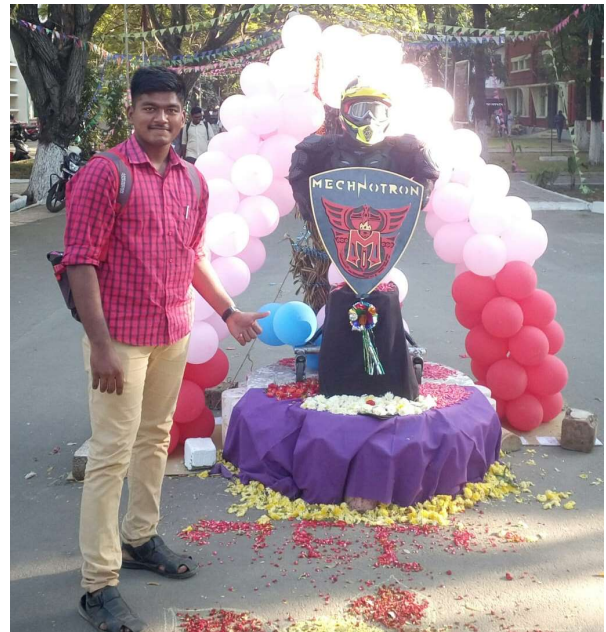
- Mr. Athithyan from 3rd year
- Mr. Susilnath from 2nd year.

Upcoming events :

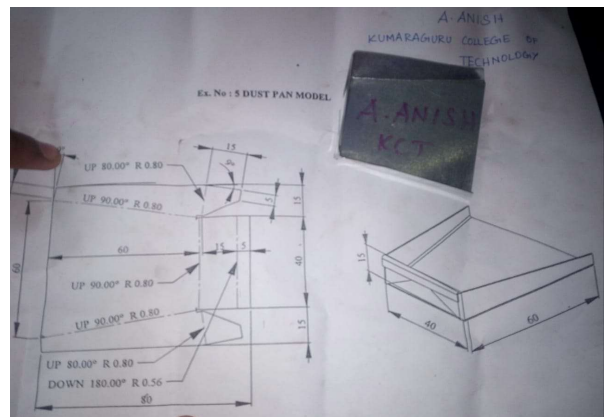
- Mech_Master
- Seminar on "Intellectual Property Rights" by Dr. K. Paramasivam, Professor / ECE.

Students Achievements

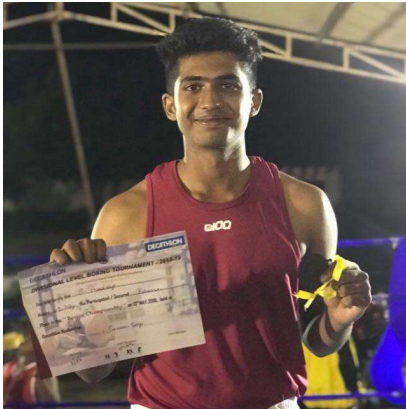
- Mr. Anish A, III Mech. B participated in the following events in 'MECHNOTRON 2019' conducted by the Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore on 10th and 11th January 2019 and won prizes.



- Scrutinize, Answer & Win – Winner
- Metal Crafter – Runner
- Rubics Cube – Runner



- Mr. S. Pradheep, III Mech. B participate in U-Senior Boys Category in Divisional Level Boxing Tournament conducted and held at Decathlon, Coimbatore and won “BRONZE” medal.



- Mechanical Engineering Association won the 1st Prize in Pongal Vizha conducted by Kumaraguru Tamil Mandram.



Internship

- Following students attended an Internship at M/s. Diesel Locoshed, Erode between 18.12.2018 and 22.12.2018
 - Mr. S. Muthu Vignesh, 15BME100
 - Mr. N. Monish Kowshik, 16BME224
 - Mr. R. Murali Krishnan, 16BME211
 - Mr. R. Rohith, 16BME246

Indian University Immersion Program



- Mr. S. Pradheep, III Mech. B attended the Indian University Immersion Program between 10th to 21st December 2018 at Hawthorn Campus of Swinburne University of Technology, Melbourne, Australia.



Reach us at:
da.mec@kct.ac.in



KUMARAGURU

college of technology

COIMBATORE – 641 049

Department of Mechanical Engineering

INSTITUTE VISION

The vision of the college is to become a technical university of International Standards through continuous improvement.

INSTITUTE MISSION

Kumaraguru College of Technology (KCT) is committed to providing quality Education and Training in Engineering and Technology to prepare students for life and work equipping them to contribute to the technological, economic and social development of India. The College pursues excellence in providing training to develop a sense of professional responsibility, social and cultural awareness and set students on the path to leadership.

DEPARTMENT VISION

To emerge as a center that imparts quality higher education through its program in the domain of Mechanical Engineering to meet the changing needs of the society.

DEPARTMENT MISSION

Bring about supremacy in curricular and co-curricular sustained activities with competent faculty through teaching and research, that generates technically capable mechanical engineering professionals to serve the society with delight and gratification.

PROGRAMME OUTCOMES (POS)

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.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

- PEO 1 :** Graduates will take up careers in manufacturing and design related sectors.
- PEO 2 :** Graduates will be involved in the execution of mechanical engineering projects.
- PEO 3 :** Graduates will take up educational programmes in mastering Mechanical Engineering Science and Management.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

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