

Vol. 02 No. 03	For internal circulation only	01.10.2018 - 31.10.2018
Editors: Dr. C. Velmurugan, Mr. B. N. Sreeha	an Associate Editors: Mr	. A. Kapil, Mr. K. Arun,

Institutional Membership

 Kumaraguru College of Technology has become an institutional member in "The Coimbatore District Small Industries Association" (CODISSIA) on 28.09.2018.



The Department of Mechanical Engineering initiated the process of becoming the institutional member of the association.

Industry Institute Interaction

- Our Department of Mechanical Engineering had signed a Memorandum of Understanding (MoU) with the various industries.
- By signing MoUs, students can undergo industrial visits, inplant trainings, internships along with they can do projects in those industries. Faculty members can undertake joint research, enhance their knowledge and skills. Department may offer consultancy to the industries.



M/s. Ammarun Foundries, Coimbatore on 08.10.2018.



M/s. Rashi Steels, Coimbatore on 15.10.2018.



M/s. Sakthi Gear Products, Coimbatore on 24.10.2018.

- MExpress
- M/s. SP Automation and Packaging Machine, Coimbatore on 31st October 2018.
- Dr. S. Balasubramanian, ASP/ME, Mr. M. Ramesh Kumar, AP/ME, Mr. S Ramanathan, AP (II)/ME & Mr. Ananth-KCIRI visited M/s. Everest Industries, Podanur for an interaction.

Guest Lecture Delivered

- Prof. T. R. Sukumar, Professor / ME delivered a guest lecture in the 'Entrepreneurship Awareness Camp - EAC 2018' at Info Institute of Engineering, Saravanampatti, Coimbatore on 28.08.2018.
- Dr. S. Balasubramanian, ASP/ME delivered a guest lecture on "ZED Certification and MSME Developments" at M/s Sakthi Gear Products, Arasur, Coimbatore on 23.10.2018.



Journal Publication

- Dr. R. Arvind Singh, Professor/ME published his paper entitled "Innovative approach for suppressing corrosion of SS304 steel in saline water environment" in the Journal of Anti-Corrosion Methods and Materials. Vol. 65 No. 5, pp 484-491.
- Thirumalaimuthukumaran. M, AP (II)/ME published paper entitled "A strategy for minimization of thermal error in headstock assembly of CNC Lathe", in the International Journal - Machining Science and Technology, 1-22, Oct 2018.

Certification Course Completed

• Following faculty members completed the certification course as detailed below

Dr. C. Velmurugan	Introduction to Engineering Mechanics (Coursera)	
Dr. N. Sangeetha		
Mr. T. Karuppusamy		
Dr. V. Muthukumaran	Fundamentals of Fluid Power (Coursera)	
Dr. K. M. Senthil Kumar		
Dr. S.		
Thirumurugaveerakumar		
Dr. Arvind Singh	The 3D Printing Revolution (Coursera)	
	Digital Manufacturing Design (Coursera)	
Dr. V. R. Muruganantham	Advanced Manufacturing Enterprise (Coursera)	
Dr. S. Sivakumar	Fundamentals of Thermodynamics	
Dr. S. Sivakumar	Refrigeration and Air	
Mr. S. Suresh	Conditioning (NPTEL)	
Dr. S. Balasubramanian	Product Design and Innovation (NPTEL)	
Mr. M. A.		
Vinayagamoorthi		
Mr. R. S. Mohankumar		
Mr. B. N. Sreeharan	Design for Quality, Manufacture and Assembly (NPTEL)	
	Machine Design Part I –(Coursera)	
	Particle Swarm Optimization in MATLAB (Udmey)	
ivir. P. D. Devan	MATLAB & Simulink (Udmey)	
	Fundamentals of Management (Coursera)	

Programmes Organized

 Department organized a short-term course on "Advanced Machining Solutions" on 6th October 2018 which was handled by industry personnel from M/s. SECO Tools.





Mr. M. A. Vinayagamoorthi, AP (II)/ME and Dr. S. Balasubramanian, ASP/ME coordinated the event.

Programmes participated

 Dr. P. Sathyabalan, Professor/ME participated in 3rd series of Ranking Masterclass Seminar on "DECODING NIRF RANKINGS" at Aloft Hotel, Coimbatore on 25.10.2018. Mr. B. N. Sreeharan, AP (II)/ME participated in Research Scholar Empowerment Programme (RSEP-II) conducted by Coimbatore Institute of Technology (CIT), Coimbatore between October 24 – 28, 2018.

Events attended

• Mr. M. Siddharth from 3rd year Mech B was a Guest performer for "PESUM BOMAIGAL" a social event by M/s. Jewel One, Coimbatore.

Mechanical Engineering Association:

Mech_Master:

The Mechanical Engineering Association aims to prepare the technical aspirants of the department to face the GATE, IES and more. For that an event called "Mech_Master" was introduced by the association.

In October month, this event was conducted in two different phases. In Phase -1 the technical aspirant tested their technical standard in Engineering Mechanics with Mech_Master and 15 from the phase-1 were selected for phase -2.

In Phase-2, they tested their knowledge with Manufacturing Technology. From the phase-2, two were selected as winners of the Mech_Master and crowned with the title "Mech_Master".



Faculty incharge: Mr. S. Rajesh, AP/ME Event Co-Ordinator: Mr. Arun

Winners of the event of October month:

Mr. Nizzanth from 3rd year and Ms. Rushethra from 2nd year.

MExpre*11*

Mr. Mechanic:

This event consists of three round the round 1 consist of technical question with MCQ. In second round the participants should develop a 3D model and in third round participants were asked to turn, tap and champ the given rod.



Faculty incharge: Dr. V. R. Muruganantham, ASP/ME Event Co-Ordinator: Mr. Bala Vignesh

Winners:

Mr. Venkatesh K from 3rd year and Mr. Sreenath from 4th year.

Students Achievements

• Ms. Archana from 3rd year Mechanical got Bronze medal in National Wushu Competition.



- The following students from 3rd year Mechanical have been posted in the following clubs.
 - ✓ Arun Raja M 3rd year C-Section President -KCT NSS.
 - ✓ Rahul Krishnan 3rd year B-Section –
 President- Rotaract Club of KCT.

- ✓ Monish Kowsik N 3rd year C-Section Editor
 Rotaract Club of KCT.
- ✓ Silambarasan K 3rd year C-Section Director of Community service - Rotaract Club of KCT
- ✓ Rahul R 3rd year A-Section Treasurer -Rotaract Club of KCT
- ✓ Naveen S 3rd year B-Section Senior St. at Arms - Rotaract Club of KCT
- ✓ Kaleeswaran 3rd year B-Section Internet Column officer - Rotaract Club of KCT
- ✓ Murali Krishnan 3rd year C-Section Secretary
 -Red Ribbon Club
- ✓ Vijay R 3rd year B-Section President Voluntary Blood Donor club of KCT
- ✓ Rohith R 3rd year C-Section Secretary -Voluntary Blood Donor Club of KCT
- Karthik Raja M 3rd year A-Section President
 KCT Bikers Club
- ✓ Vishnu Prasath R 3rd year A-Section –
 President YRC club of KCT
- ✓ Vasantha Kumar R 3rd year A-Section Treasurer – YRC club of - KCT
- ✓ Sasidharan P 3rd year A-Section − Safety Head − YRC club of KCT
- ✓ Archana P 3rd year A-Section Event Coordinator – YRC club of KCT
- ✓ Akilan 3rd year B-Section President Nature Club of KCT





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.