



NEWSLETTER

MEExpress



Department of Mechanical Engineering, KUMARAGURU COLLEGE OF TECHNOLOGY

Vision: To facilitate mechanical engineering education, research and services that contributes 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.

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Associate Editors: Mr. B. N. Sreeharan, Mr. J. K. Mukilan, Mr. Rallish, Mr. K. Arun



**Editors wish the readers a very
warm happy and prosperous new year....!!!**

Industry – Institute – Interaction

- Dr. V. Muthukumaran, HoD/ME visited M/s. SP Automation and Packaging Machine, Coimbatore on 13.12.2017 regarding the graduate requirements.

Conference / Workshop participation

- Mr. P. S. Samuel Ratna Kumar, AP/ME participated in a 7-day Faculty development Programme on “Advanced Composite Materials” conducted at and by Coimbatore Institute of Technology during 06.12.2017 and 12.12.2017.
- Mr. Jeeva. B, AP/ME participated in a two-week Faculty Development Programme on “Research Methodologies for Engineering, Management Teachers, and Research Scholars” conducted at and by Kongu Engineering College, Perundurai during 27.11.2017 and 10.12.2017.
- Dr. S. Balasubramaniam, ASP/ME, Mr. M. A. Vinayagamoorthi, AP – II/ME, Mr. S. Rajesh, AP/ME, Mr. R. S. Mohan Kumar, AP/ME and Mr. P. Pradeep, AP/ME participated in a 7 day AICTE QIP Sponsored STC on Machine Learning Techniques for Manufacturing Optimization organized at and by Thiagarajar College of Engineering, Madurai during 14.12.2017 and 20.12.2017.

- Mr. S. Ramanathan, AP-II/ME and Mr. B. N. Sreeharan, AP – II / ME Participated in a AICTE sponsored Two Weeks Faculty Development Programme on Applications of Computational Fluid Dynamics in Process Industries from 27th November to 9th December 2017 organized at and by the Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore - 641 042
- Dr. R. Manivel, Prof./ME participated in an International Conference on Vibration Problems 2017 conducted by IIT Guwahati during 29.11.2017 and 02.12.2017.
- Dr. Manivel also participated in Elsevier Connect Seminar on Awareness on publications, citations and data analysis in Scopus Index on 19.12.2017
- Dr. V. R. Murganantham, ASP/ME and Mr. P. D. Devan, AP/ME participated a Faculty Development Programme on “Instructional Methodologies for OBE in Mechanical Engineering” during 04.12.2017 and 15.12.2017
- Mr. S. Prabhu, AP/ME, Mr. P. Karthi, AP/ME, Mr. Manikanda Prasath K. AP/ME and Mr. S. Suresh, AP/ME participated in a Faculty development Programme on “Advanced research in material science” during 14.12.2017 and 20.12.2017 at and conducted by Thiagarajar College of Engineering, Madurai.

- Dr.K.M. Senthilkumar, ASP/ME, participated in a Short-Term Course on Convex Optimization: Theory, Algorithms and Applications under QIP of AICTE during 11.12.2017 and 15.12.2017.
- Mr. P. R. Ayyappan, AP (SRG)/ME participated a Faculty Development Programme on “6401-Kinematics of Machinery” approved by Anna University-Chennai during 01.12.2017 and 09.12.2017

Workshop Organized

A One Day Workshop on Hands on Training in Modeling, Assembly and GD&T was organized by the department on 06.12.2017 at PG CAE Lab, for our first Year M.E. CAD/CAM students.



The objective of this workshop was to provide necessary background knowledge and training through theoretical and practical sessions on solid modeling, assembly and Geometric dimensioning and tolerancing.



The workshop was conducted by Mr. M. A. Vinayagamoorathi, AP – II/ME and Mr.R.S.Mohan Kumar, AP/ME.

Paper Presentations

- Dr. R. Manivel, Prof./ME presented a research paper on "Attenuation of FIV in Interacting Internal Two- Phase Flows of M-Shaped Jumper Pipes in Oil and Gas Risers" co-authored by Sangeetha. N, Babin. T, and Brathikan. V. M. in an International Conference on Vibration Problems 2017 conducted by IIT Guwahati during 29.11.2017 and 02.12.2017.
- Mr. S. Sivakumar, AP-II/ME presented a Paper title "Enhancing the Heat Transfer Rate by Coating of Nano Particles on a Solar Collector for Drying Applications" in the International Conference on “Systems, Energy and Environment” (ICSEE2017) held at and conducted by Government College of Engineering, Kannur during 15th and 16.12.2017.
- Mr. M. Gautham Siddharth from Third Year presented a paper titled “Enhanced Mechanical Property of Nanoclay Reinforced Aluminium Alloy Metal Matrix Composite” at the International Conference on Composite Materials and Structures (ICCMS 2017), organized by IIT HYDERABAD, INDIA during 27th - 29th December 2017.

Mechanical Engineering Association

UPCOMING EVENTS

Following events are planned by the Mechanical Engineering Association. **The Overall Coordinator is** Mr. Shrihary from Final Year.

MELT IT... WELD IT...

Do you have the precision of a surgeon and the craftsmanship of an artist? If you do, then you are definitely a Welder. Be ready to “Melt metals down and Weld them up”.



Event Incharge Name: Mr. NETHAJI SUBASH M, III Year

Mr. MACHINIST

Have you got what it takes to cut through metals and machine out quality components on time? If you do, be ready to earn the title of Mr. Machinist at YUGAM2K18.



Event Incharge Name: Mr. MANIKANDAN N, III Year

CNC SIMULATION

Know the art of maximizing the quality and lowering the cost? If not don't worry. We have got the CNC EXPO here at YUGAM2K18.



Event Incharge Name: Mr. VIJAY A, III Year

SOLUTIONERISE

Are you an aspiring Mechanical Engineer who is keen in solving industrial problems? Well, this event gives you a valuable experience in solving industrial problems. A real time challenging industrial problem will be given to the participating team. Participants are expected to bring out a solution for the problem.



Event Incharge Name: Mr. Akilan K, III Year

MECHUNT

Arise and Awake the detective in you; because it's time for DISCOVER ME at YUGAM2k18. PS: Remember that all treasures are not Silver and Gold.



Event Incharge Name: Ms. PRAKATHI D, III Year

NITRO RC RACING

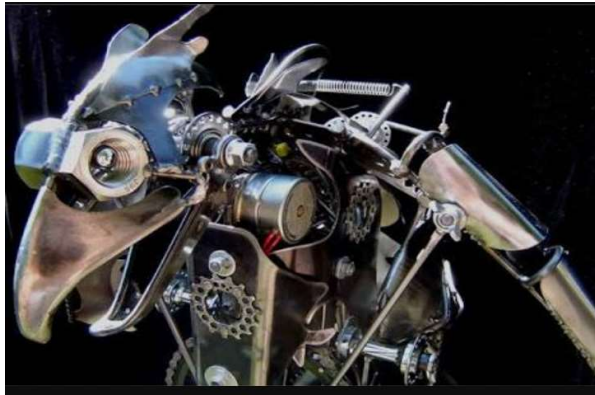
A wireless RC Car, powered only by an IC engine that conforms to the NITRO standards is required for participation by each team. The event is to complete and compete with other opponents on an off-road dirt track with many obstacles in the least possible time.



Event Incharge Name: Mr. SANTHOSH. A. S., III Year

SCRAP KING

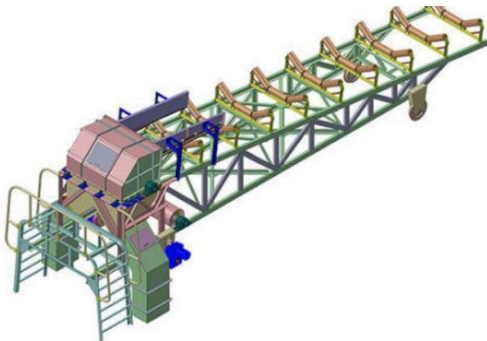
The Desire to create something is the soul of an artist. Do you have the heart of an artist and the mind of an Engineer? If you do, then it's your time to become the "SCRAP KING" at YUGAM2k18.



Event Incharge Name: Mr. Mahendran S, III Year

DESIGN CONCEPTIO

It is a design competition, where the degree of your designing skills are tested. A good designer is identified on the basis of their modelling skills using software, and also the advanced capabilities of modelling techniques such as simulation of mechanisms, product development can be given and awarded prizes



Event Incharge Name: Mr. S. Eswara Moorthy, III Year

The Cockroach Theory for Self-Development

At a restaurant, a cockroach suddenly flew from somewhere and sat on a lady.

She started screaming out of fear.

With a panic stricken face and trembling voice, she started jumping, with both her hands desperately trying to get rid of the cockroach.

Her reaction was contagious, as everyone in her group also got panicky.

The lady finally managed to push the cockroach away but... it landed on another lady in the group.

Now, it was the turn of the other lady in the group to continue the drama.

The waiter rushed forward to their rescue. In the relay of throwing, the cockroach next fell upon the waiter.

The waiter stood firm, composed himself and observed the behavior of the cockroach on his shirt. When he was confident enough, he grabbed it with his fingers and threw it out of the restaurant.

Sipping my coffee and watching the amusement, the antenna of my mind picked up a few thoughts and started wondering, was the cockroach responsible for their histrionic behavior?

If so, then why was the waiter not disturbed? He handled it near to perfection, without any chaos.

It is not the cockroach, but the inability of those people to handle the disturbance caused by the cockroach, that disturbed the ladies.

It is realized that, it is not the shouting of a father or a boss or a wife that disturbs us, but it's our inability to handle the disturbances caused by their shouting that disturbs us.

It's not the traffic jams on the road that disturbs us, but our inability to handle the disturbance caused by the traffic jam that disturbs us.

More than the problem, it's our reaction to the problem that creates chaos in our life.

- **Courtesy: B. N. Sreeharan, AP – II/ME**



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