



**KUMARAGURU**  
COLLEGE OF TECHNOLOGY



Department of Mechanical Engineering



Newsletter

# *MExpress*

Vol.03 Issue No.01

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# MEXPRESS



We are delighted to announce the launch of our 3<sup>rd</sup> anniversary newsletter with celebration of passion and innovation. This marks a significant milestone for our team, which was first launched its first newsletter in the year of 2017 focusing on our achievements in academics, co-curricular and extracurricular activities.

To mark this milestone, we are delighted to launch this 3<sup>rd</sup> anniversary newsletter. We planned to include few new sections via, student speaks, students page – articles, photographs, food for thoughts, job opportunities, Q&A etc. in upcoming episodes.

It is also decided to increase the circulation including alumni, industries signed MoU with the department with the aim of reaching to all the stake holders.

Please take this opportunity to review and forward this newsletter to all members who are within our organization, as well as to your friends in related disciplines.

- EDITORS

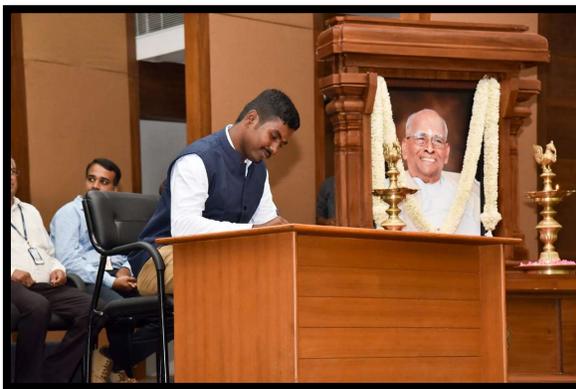
# LEADERSHIP COUNCIL INVESTITURE CEREMONY

## OUR STUDENTS IN LEADERSHIP COUNCIL

The Following Students from Mechanical Department Representing Various Positions in Leadership Council



**Mr. ARUN K**  
President - Department Association



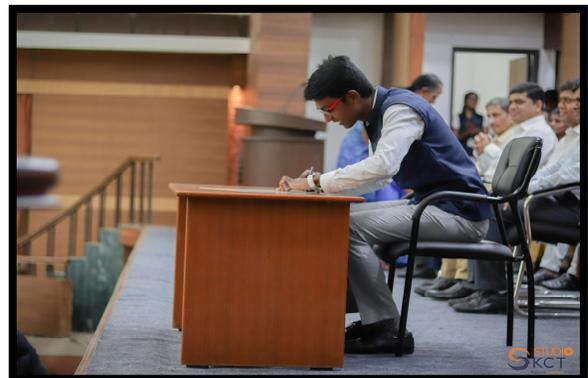
**Mr. DINESH KUMAR**  
President - PG Forum



**Mr. SIBI**  
President - National Organization



**Mr. KARTHIK RAJA**  
President - Arts



**Mr. VISHNU PRASATH**  
President - Social Organization

# EVENTS CONDUCTED BY MEA

## ORIENTATION FOR 2<sup>nd</sup> YEARS

Mechanical Engineering Association conducted an orientation for the department freshers on 10<sup>th</sup> July 2019. This Orientation Program enabled the freshers to know about the lab facilities, faculties, and lab assistants. Then Lateral Entry Students were welcomed.



Then students of 2<sup>nd</sup> year were made curious about RC cars and RC Team in our college.



## MECHANICAL ENGINEERING ASSOCIATION RECRUITMENT

Mechanical Engineering Association conducted recruitment for 3<sup>rd</sup> year and 2<sup>nd</sup> year students for various positions like Secretary, Joint Secretary, Joint Treasurer and Executives of MEA.



Lateral Entry Students were also recruited for being a part of MEA.



## MEA OFFICE BEARERS 2019-2020

S.No	NAME	Roll Number	Designation
1	ARUN K	16BME166	PRESIDENT
2	DHARUN KUMAR S	16BME047	VICE-PRESIDENT
3	BALAVIGNESH S	16BME119	TREASURER
4	RUSHETHRA PN	17BME080	SECRETARY-ACADEMICS & CO-CURRICULAR
5	MOULIKRISHNAN R	17BME209	SECRETARY-EXTRA CURRICULAR
6	CHARAN V	17BME184	JOINT TREASURER
7	PRAVEEN B	18BME092	JOINT SECRETARY-ACADEMICS & CO-CURRICULAR
8	AKASH MADHAVAN S	18BME071	JOINT SECRETARY-EXTRA CURRICULAR
9	DHINESH KUMAR K	18MEI010	SPECIAL INVITEE
10	KAVINPRASANTH S	17BME156	ALUMNI CO-ORDINATOR
11	VIJAY V	17BME234	
12	BHARATHI S	17BME232	MARKETING CO-ORDINATOR
13	LOGADEEPAN M	17BME230	ASSOCIATIONS COORDINATOR
14	ARCHANA P	16BME092	PLACEMENT CO-ORDINATOR
15	DHARANKUMAR S	17BME202	
16	ASWATH D	17BME147	MEDIA & DOCUMENTATION CO-ORDINATOR
17	PAVITHRAN K	17BME225	
18	GOKUL ANANDHAN S	16BME174	HIGHER STUDIES CO-ORDINATOR
19	NAVEEN KRISHNAN K	17BME171	COMPETITIVE EXAMS CO-ORDINATOR
20	VINOJ M	17BME301	ENTREPRENEURSHIP CO-ORDINATOR
21	HARISH M	17BME221	
22	DEEPAN ISSAC T	18BME050	TECHNICAL AMBASSADOR
23	VASANTH E	16BME052	EXECUTIVE COMMITTEE
24	GOKUL R G	16BME204	
25	SRIVATHSAN V	18BME088	
26	JOSHUA PETER A	18BME084	
27	HARIPRASATH V	18BME025	
28	HARISHMARAN S T	18BME098	
29	MADHUMITTA P	18BME064	
30	NANDHINI V	18BME068	
31	MOKESH P	18BME023	
32	SREEJITH RAVICHANDRAN	18BME082	
33	ARUN KUMAR R	18BME205	
34	SURIYA G	18BME230	

## PLACEMENT TALKS

Placement talk, a formal meeting was arranged for the students in order to meet and learn more about the fresh yet-to-join employees as well as introduce them to the company, their rules and regulation, code of conduct and much more.



## MANAGEMENT CLASS WITH PG FORUM

Mechanical Engineering Association in Association with PG forum of KCT Conducted the series of lectures to 2<sup>nd</sup> Years and 3<sup>rd</sup> Year Students on Hierarchy and Management Principles of an industry.

1. Management Architecture in a manufacturing Industry
2. Levels of management in an organization



## MECH MASTER

Mech Master has always been the showcase event of mechanical engineering department. MEA aims in preparing the technical aspirants of the department to face GATE, IES and more. For that an event called “Mech Master” was introduced by the association. This event was conducted in two different phases. In Phase-1 the technical aspirants were tested their technical standard in MANUFACTURING TECHNOLOGY and 10 from the phase-1 were selected for phase-2. In Phase -2, participants were asked to make a model using Solid works.

Winners of Mech Master:

1. Mr. Indrajithu – 17BME059
2. Mr. Umapathi – 17BME064



## UPCOMING EVENTS

1. Mr. Mechanic – Ability to transform theoretical knowledge to Practical Knowledge.
2. MeConnect – Technical Training for Placements.
3. Fuse With Flux – Knowledge About Welding.

# Students Achievements

## TEAM EVOKE

- Ms. Pavithra R – 18BME106 Participated in AURA'19 at Pondicherry Institute of Medical Science (PIMS) and secured 1<sup>st</sup> Position in Eastern Girls Category on 2<sup>nd</sup> August 2019.



- Mr. Nikilesh – 18BME052 Participated in AURA'19 at Pondicherry Institute of Medical Science (PIMS) and secured 1<sup>st</sup> Position in Western Duo Category on 2<sup>nd</sup> August 2019.



- Mr. Nikilesh -18BME052, Mr. Ponmukesh - 18BME133, Mr. Akash - 17BME095, Mr. Kishore - 16BME144 Participated in AURA'19 at Pondicherry Institute of Medical Science (PIMS) and secured 2<sup>nd</sup> Position in Western Boys Category on 2<sup>nd</sup> August 2019.



## VARNAM CLUB OF KCT

- Mr. Ganesh Kumar – 18BME146 Participated in AURA'19 Waste out of Wealth and secured 2<sup>nd</sup> Position at Pondicherry Institute of Medical Science (PIMS) on 2<sup>nd</sup> August 2019.



- Mr. M. P. Kritikesh, 18BME015, participated in a Two Days National Level Workshop on “Biped/Humanoid Robotics” conducted by SNS College of Technology, Coimbatore during 21.08.2019 and 22.08.2019.

### SPORTS - Athletics

- Mr. Sivadasan – 18BME156 participated in 59<sup>th</sup> Coimbatore District Athletic Meet at Nehru Stadium Coimbatore from 14.08.2019 to 16.08.2019 and secured 4<sup>th</sup> Position in 400m and 3<sup>rd</sup> Position in 4\*100m.
- He also participated in KICS (Kumaraguru Inter College Sports) Meet held at Kumaraguru College of Technology, Coimbatore on 24.08.2019 and secured 1<sup>st</sup> Position in 400m and 3<sup>rd</sup> Position in 4\*100m.
- Further he participated in 400m and 4\*100m in 34<sup>th</sup> Tamil Nadu Inter District Junior Athletic Meet held at Nehru Stadium Chennai from 30.08.2019 to 31.08.2019.

### PLACEMENTS

- Mr. B. Shankar Krishnan – 16BME095 and Mr. K. Arun – 16BME166 have been Placed in MITSOGO.
- Mr. K. B. Durai Raja – 16BME074 has been placed in WHIRLDATA.

### DRAMATROUPE

- “MAAYANEEDHI” an unusual show was played by the play house of KCT called ‘DRAMA TROUPE’ on 6th August in KCT, where our department students Mr. Karthik Raja, Mr. KavinPrasanth, Aswath, Mr. Karthick Kumar, Mr. Parthiban, Mr. Harish Maran played vital role.

### NATIONAL CADET CORPS

- CADET P. Abimani – 18BME126 and Mr. Nishank 18BME060 had attended Republic Day Camp. It is a selection camp to select and train the cadets for the Inter Group Competition and for the Republic Day Camp which is to be held at Delhi. This Camp was held at RVS Technical Campus from 17.08.2019 to 26.08.2019 and Mr. P. Abimani was also selected for the next camp.



- Mr. Ilavarasan. N. P - 18BME141, Mr. Charankumar. A. V and 18BME090 – Mr. Aravind. B attended NCC Inter-Group Competition Camp at Periyar Maniyammai College, Tanjore from 15.08.2019 to 31.08.2019.

# Faculty Achievements

## GUEST LECTURE



- Dr. S. Bhaskar, ASP / ME delivered a guest lecture for the first year students at Sri Eshwar College of Engineering on 02.08.2019 on the topic "Striking 3 principles and 7 Qualities to Experience your Fullest".
- Mr. S. Kiranlal, AP/ME and Garage Incharge delivered a guest lecture on "Introduction to Motor Sports" on 19.08.2019 at KMEA Engineering College.

## Programs Attended

- Dr. R. Manivel, Professor, attended AICTE – UKIER leadership development training programme between 30.07.2019 and 02.08.2019.



- Mr. P. R. Ayyappan, AP (SRG)/ME participated in the 11<sup>th</sup> International conference on "Applied Energy" (ICAE 2019).



The conference was held during August 12 – 15, 2019 in Vasteras, Sweden.

- Mr. S. Kiranlal, AP/ME and Garage Incharge participated in the Fraternity of Mechanical and Automotive Engineers at FMAE Moto Park, Hyderabad from 23.08.2018 to 27.08.2019.
- Mr. Kiranlal also participated in the National Science & Technology Fair 2019 conducted by CODISSIA from 29.08.2019 to 31.08.2019.

- Mr. S. Prabhu (Jr), AP/ME and Mr. K. Manikanda Prasath, AP/ME participated in the 2nd Edition of conference on “Logistics”.



- Mr. B. N. Sreeharan, AP (II)/ME attended Monthly Lecture Meeting on "New Product Development - Process and Strategies".



## EXTERNAL EXAMINERSHIP



- Dr. P. K. Giridharan, Professor/ME attended as expert in the 1st doctoral committee meeting at Dr. Mahalingam College of Engineering and Technology, Pollachi on 01.08.2019.
- Dr. C. Velmurugan, Professor & HoD/ME attended as expert in a Doctoral committee meeting on 07.08.2019 at KSR College of Engineering, Tiruchengode.



- Dr. Samuel Ratna Kumar, AP/ME attended as Doctoral Committee Expert Member at Karunya University on 20.08.2019.

- Dr. V. Muthukumar, Professor/ME attended 3<sup>rd</sup> Doctoral committee meeting as doctoral committee member on 29.08.2019 at Karpagam Academy of Higher Education, Coimbatore.
- Dr. K. M. Senthilkumar, ASP/ME and Dr. K. Ulaganathan, AP (III)/ME went for scrutiny of answer scripts of UG/PG examination at Karunya Institute of Technology and Science, Coimbatore on 31.08.2019.

### Ph. D. VIVA VOCE

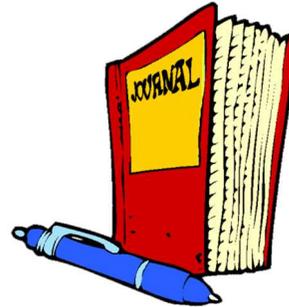


- Dr. K. Ulaganathan, AP (III)/ME successfully defended his doctoral research work.



Ph. D. Viva Voce was conducted on 02.08.2019 at Sri Ramakrishna Engineering College, Coimbatore.

### PAPERS PUBLISHED



- Dr. M. Balaji, ASP/ME published a paper entitled "An application of analytic hierarchy process in vehicle routing problem in the Periodical polytechnical -Transportation Engineering Journal, Vol. No. 47, Issue No. 3, pp. 196-205, <https://doi.org/10.3311/PPtr.10701>

### PAPERS REVIEWED



- Mr. Jeeva B, AP/ME reviewed a paper titled "Analysis of VSC for a General Aviation aircraft-A brief Study" for the National Academy Science Letters Journal.

## INDUSTRIAL VISIT

- Dr. P. K. Giridharan, Professor/ME, Dr. V. R. Muruganantham, ASP/ME, Dr. S. Balasubramanian, ASP/ME, Mr. M. A. Vinayagamoorthi, AP (II)/ME and Mr. B. N. Sreeharan, AP (II)/ME accompanied interested final year students from all the three sections to National Science & Technology Fair 2019 conducted by CODISSIA on 30.08.2019.



The visit was coordinated by Dr. Muruganantham, Dr. Balasubramanian and Mr. Vinayagamoorthi.



# 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 centre, that imparts quality higher education through the programme in the field of Mechanical Engineering and to meet the changing needs of the society.

### DEPARTMENT VISION:

The department involves in sustained curricular and co-curricular activities with competent faculty through teaching and research that generates technically capable Mechanical Engineering professionals to serve the society with delight and gratification.

### PROGRAM OUTCOMES (PO's):

- 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.

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8. **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.
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 EDUCATIONAL OUTCOMES (PEO's):**

- PEO 1 : Graduates will take up career in manufacturing and design related disciplines.
- PEO 2 : Graduates will be involved in the execution of Mechanical Engineering projects.
- PEO 3 : Graduates will take up educational programme in mastering Mechanical sciences and management studies.

#### **PROGRAM SPECIFIC OUTCOMES (PSO's):**

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.