

# VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

(Affiliated to Anna University, Accredited by NAAC with 'A' Grade & Accredited by NBA)



## DEPARTMENT OF MECHANICAL ENGINEERING

### “VCET-MECHMERIZE”

### NEWSLETTER - ODD SEMESTER 2020-21

Volume: 6 Issue: 1

#### MESSAGE FROM THE SECRETARY



I am happy to inform that the Department of Mechanical Engineering of Velalar College of Engineering and Technology is publishing their Department News Letter for the Odd Semester 2020-21. I commend and appreciate the efforts taken by the staff and students to enhance the quality of academics in the college. Our Institution has the credentials and proven the strengths to initiate such an indispensable academic activity.

- S. D. CHANDRASEKAR

#### MESSAGE FROM THE PRINCIPAL

It's my pleasure to congratulate the Department of Mechanical Engineering on the pleasant occasion of releasing the newsletter “VCET MECHMERIZE” for Odd Semester 2020-21. It is great to find a considerable number of winners and participants in co-curricular and extracurricular activities which certainly prove that our faculty members and students are adequately equipped and possess necessary skill-sets to bring such laurels to the institution and to the department. I wish this number to grow in the years to come. I wish them all the very best for future endeavors.

- Dr.M.JAYARAMAN



#### MESSAGE FROM THE HEAD OF THE DEPARTMENT



It is a great opportunity to present the first issue of ‘VCET MECHMERIZE 2020-21’. This year was full of various activities by the students and faculty members in academic, co-curricular and extra-curricular activities, as well as research & development activities by the faculty members. As you read through the pages you will realize, that the Department had a successful year and we succeeded in organizing various events this Semester. I would like to thank all my colleagues and young minds for their tireless efforts to help the department progress at a very steady pace.

-Dr.R.KUMARAVELAN

#### FAME Inauguration and Webinar

The inaugural functions of ‘Fabulous Association of Mechanical Engineers (FAME)’ and ‘SAE India VCET Collegiate Club’ for the academic year 2020-2021 were conducted on 11.08.2020 and organized a webinar on the topic “Automotive Braking Systems”. The chief guest was Mr.K.Senthilkumar, Manager-Vehicle Dynamics, Continental Automotive Components Pvt Ltd, Bangalore.



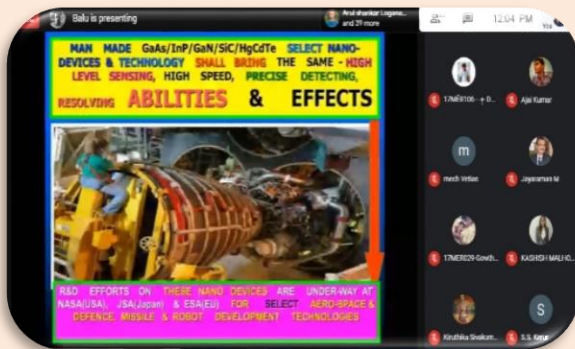


### Five Days Webinar Series

A webinar series was organized by ‘The Institution of Engineers’ Erode Local Chapter on the topic ‘Recent Trends in Mechanical Engineering’ from 24.08.2020 to 28.08.2020 (5days). Day-1: Automotive Interior/Exterior Product Development&Plastics, Day 2: Energy Management in Boiler and Compressors, Day 3: Internal Combustion Engines and Emission Control Technologies, Day 4: Ten Commandments for successful business venture, Day 5: Friction Stir Welding.

### Webinar

Organized a webinar on ‘Career in Oil and Gas’ on 01.10.2020. Mr.M.Jayaseelan, Technical director, Haasee Inspection Services, Coimbatore delivered the general ideas on oil and gas refining industries, exports and plant installation guidance.



### Guest Lecture

Organized a guest lecture on ‘Design & Development of systems for Preparation of High Pure Gallium & Indium and their Materials and Devices for Advanced Electronic Applications - A Bird's Eye View’ on 20.11.2020. Dr. V.N.Mani, Centre for Materials for Electronics Technology (C-MET), Department of Electronics & Information Technology, Govt, of India, Hyderabad is the chief guest.

### Workshop

Organized a workshop on ‘Design Now workshop on Autodesk Fusion 360 – Design and Drafting on 24.11.2020. Mr. Deviyaprasanth, Senior Technical Trainee, ICT Academy delivered the effective usage of drafting tools in Autodesk fusion 360 software.



### Workshop

Organized a workshop on ‘Design Now workshop on Autodesk Fusion 360 –Modelling on 03.12.2020. Mr. Deviyaprasanth, Senior Technical Trainee, ICT Academy gave an online hands on training for modeling tools available in Autodesk fusion 360 software.

## STUDENTS ACHIEVEMENTS

### Academic Toppers (A Section) – Even Semester 2019-20

(2016-2020) Batch – Final Year

(2017-2021) Batch – Third Year

(2018-2022) Batch – Second Year



**JAGATHESWARAN V**  
9.34CGPA



**JAWAHARBABU R**  
9.16CGPA



**MOHANRAJA A**  
9.63 CGPA



**KAVINPRASATH M**  
9.36 CGPA



**BARANIKA SRIR**  
9.80 CGPA



**ANIRRUDH SHRINATHS**  
9.69 CGPA

### Academic Toppers (B Section) – Even Semester 2019-20

(2016-2020) Batch – Final Year

(2017-2021) Batch – Third Year

(2018-2022) Batch – Second Year



**RANJITHKUMAR K**  
9.38 CGPA



**VIGNESH R**  
9.27 CGPA



**RAJA ISHWARIYA S**  
9.33 CGPA



**KAMALI R**  
9.10 CGPA



**SAMUEL D**  
9.77 CGPA



**SARAVANAN R**  
9.64 CGPA

## CO / EXTRA- CURRICULAR ACTIVITIES

### (i) Students Participation in various events

Name of the Programme	No. of Participants
Webinar	45
Workshop	08
Technical Quiz	33
<b>Total</b>	<b>86</b>

### (ii) Internship Training

88 students of IV & III year underwent internship training during July-November 2020 to the leading industries including Tamil Nadu Newsprint and Papers Limited, Karur, TNSSTC - R/C Unit Erode and Ambal Autos, Erode.

### (iii) Placement Activities

- Final year student M.Gokul Krishna got placed in M/s DXC Technologies, Chennai.
- Final year student T.Lokesh got placed in Tata Consultancy Services, Chennai.
- Final year student M.Gokul Krishna got placed in M/s. Cognizant, Chennai.
- Final year students have attended various special training sessions by M/s Kaar Technologies Chennai, M/s DXC Technologies Chennai and Zifo Rnd solutions Pvt Ltd Chennai.

### (iv) Academic Results

Even Semester 2019-20 Pass %	
Final Year	100
Third Year	100
Second Year	100
<b>Total</b>	<b>100</b>

## FACULTY ACHIEVEMENTS

### (i) Programme attended by Faculty members

Name of the Programme	No. of Events
FDP	43
Workshop	06
Webinar	53
STTP	11
<b>Total</b>	<b>112</b>

### (ii) Publications in International Conferences

- **Dr.A.Thirumoorthy** “Thermal Analysis of Hybrid Composite Brake Disc using ANSYS” in International Virtual Conference of Recent Innovations in Science, Engineering and Technology conducted by M.Kumarasamy College of Technology on 03.07.2020.
- **Dr.R.Prakash** “Experimental Analysis to Enhance the Efficiency of Solar Flat Plate Collector in Solar Water Heating System” in International Virtual Conference of Recent Innovations in Science, Engineering and Technology conducted by M.Kumarasamy College of Technology on 03.07.2020.
- **G.Raja**, presented a paper titled “Surface Engineering of Zinc Sulphide Film for Augmenting the Performance of Polycrystalline Silicon Solar Cells” in International Conference on Materials, Manufacturing and Machining for Industry 4.0 (ICMMM 2.0) conducted by Bannari Amman Institute of Technology on 09.10.2020.
- **Dr.R.Prakash & Dr.R.Kumaravelan**, presented a paper titled “Preparation and Study on Thermophysical Properties of Inorganic Salt Hydrate as Energy Storage Materials” in International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2020) conducted by Velalar College of Engineering and Technology on 20.11.2020 & 21.11.2020.
- **Dr.R.Kumaravelan**, presented a paper titled “Numerical analysis of Engine Inlet Fan Blades with different Materials” in International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2020) conducted by Velalar College of Engineering and Technology on 20.11.2020 & 21.11.2020.

- **A.T.Navinprasad, Dr.R.Prakash & K.Ramakrishnan** presented a paper titled “Experimental Investigation of Nickel Oxide Nanomaterials with n-Pentane Diesel Blends in Compression Ignition Engine” in International Conference on Recent Innovations in Engineering and Technology (ICRIET 2020) conducted by Nandha Engineering College on 04.12.2020 & 05.12.2020.

### iii) Publications in International Journals

- **Dr.R.Prakash & Dr.R.Kumaravelan**, Performance Evaluation of a Solar PV/T Water Heater Integrated with Inorganic Salt Based Energy Storage Medium, Journal of New Materials for Electrochemical Systems, Volume-23, Issue-3, July 2020.
- **G.Raja** ‘Experimental Investigations of Vibration and acoustics signals in milling process using kapok oil as cutting fluid’ Mechanics & Industry, ISSN 2257-7777, Volume-21, Issue-5, August 2020.
- **Dr.R.Prakash & Dr.R.Kumaravelan**, Preparation and study on Thermophysical Properties of Inorganic Salt Hydrate as Energy Storage Materials, Materials Today: Proceedings, Volume-42, Issue-1, November 2020.
- **Dr.M.Jayaraman**, Experimentation on Product and Service Life Cycle on Drive Shaft using ANT Colony Algorithm, Journal of the Balkan Tribological Association, Volume-26, Issue-4, December 2020.

Editor in Chief: Dr. R. Kumaravelan, Prof & Head

Associate Editor: Dr. R.Prakash, AP(Sr.Gr) /Mech