

# 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 - EVEN SEMESTER 2020-21

Volume: 6 Issue: 2



#### 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 Even 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 Even 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

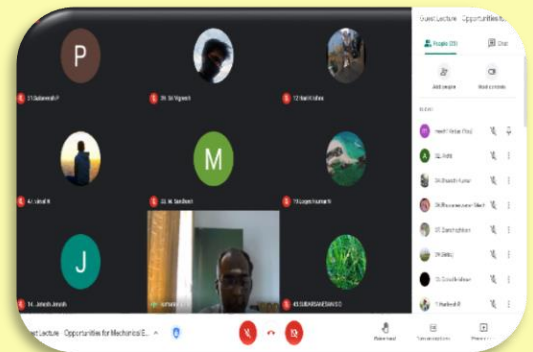


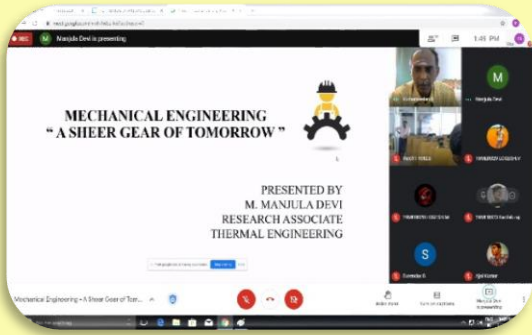
It is a great opportunity to present the second issue of “VCET MECHMERIZE 2020-21”. This year was full of various activities by the students and faculty members in academic, co-curricular and extra-curricular activities, as well as research & development activities by the faculty members. As you read through the pages you will realize, that the Department had a successful year and we succeeded in organizing various events this year. 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

#### Webinar

Organized a webinar on ‘Webinar on Career Opportunities for Mechanical Engineers’ on 15.02.2021. Dr.R.Kumaravelan, Professor & Head, VCET, Erode delivered the career opportunities in mechanical engineers and given guidance for preparing to core industries.



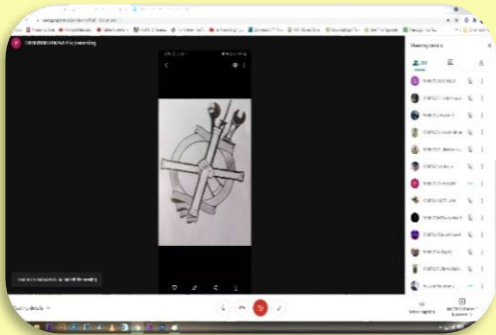
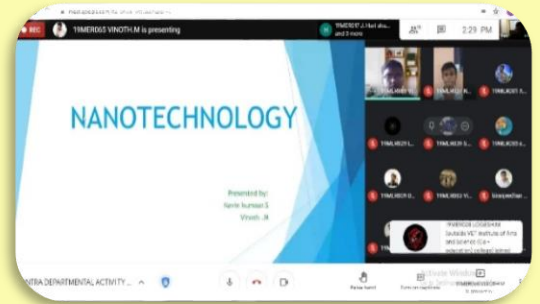


### Webinar

Organized a webinar on ‘Mechanical Engineering – A Sheer Gear for Tomorrow’ on 27.02.2021. Ms.M.Manjula Devi, Research Associate, Vellore Institute of Technology, Chennai delivered the preparation methodology for various competitive examination and job opportunities for core industries.

### Intra Departmental Activity Day

Various Intra-departmental events were organized on the Activity day by virtual mode on 30.03.2021. All students were actively participated in the events like Paper presentation, Technical Quiz, CAD modeling and Drafting contest.

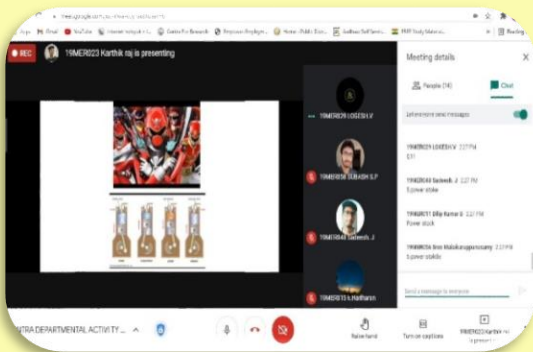
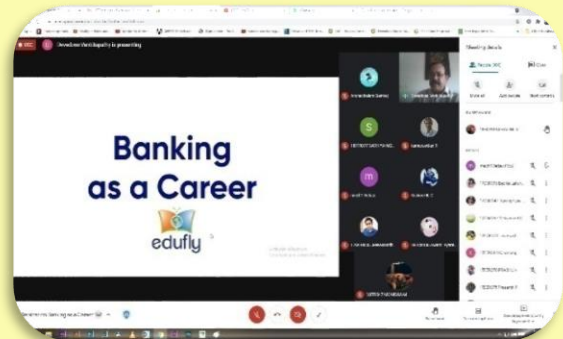


### Drafting Competition

As a part of curriculum enrichment, an intra department event called “Drafting Competition” on the topic “Art of Mechanical Engineering” was organized on 30.04.2021 for the benefits of students for enhancing the software skills.

### Webinar

Organized a webinar on “Banking as a Career” on 06.05.2021. Mr. V. Devadoss, Chief Trainer, Edufly Staffing Solution, Coimbatore delivered the job opportunities in banking sectors and government industries.



### Techno Fun Events - Connexions

An intra-departmental techno fun event called “Connexions” was organized on 08.05.2021 to the students for enhancing the technical knowledge.

## STUDENTS ACHIEVEMENTS

### Academic Toppers (A Section) – Odd Semester 2020-21

(2017-2021) Batch – Final Year

(2018-2022) Batch – Third Year

(2019-2023) Batch – Second Year



**MOHANRAJA A**  
9.52 CGPA



**KAVINPRASATH M**  
9.30 CGPA



**ANIRRUDH SHRINATHS**  
9.84 CGPA



**BARANIKA SRIR**  
9.82 CGPA



**HARISHANKAR J**  
9.40 CGPA



**MOHANPRASATH G**  
9.20 CGPA

### Academic Toppers (B Section)– Odd Semester 2020-21

(2017-2021) Batch – Final Year

(2018-2022) Batch – Third Year

(2019-2023) Batch – Second Year



**RAJA ISHWARIYA S**  
9.33 CGPA



**KAMALI R**  
9.17 CGPA



**SAMUEL D**  
9.77 CGPA



**SARAVANAN R**  
9.65 CGPA



**NAVINKUMAAR S**  
9.64 CGPA



**PRAVEEN D**  
9.63 CGPA

## CO / EXTRA- CURRICULAR ACTIVITIES

### (i) Participation in various events

- Final year students K.Velmurugan, S.Kiruthika, R.Kamali and S.Nagendiran presented paper on 'Analysis on unsteady heat transfer and fluid flow through sensible heat storage system' conducted by NadarSaraswathi College of Engineering and Technology, Theni on 19.03.2021.
- Final year students A.S.Narandhiran, K.Revanth, S.Prakash and R.Prakash presented paper on 'Study of mechanical behavior of aluminum alloy based composite material' conducted by Al-Ameen Engineering College, Erode on 29.03.2021.
- Final year students K.Thirukumaran, S.K.Sukesh Raja, S.Sutheeshkrishnan presented paper on 'Tribological characterization of hybrid aluminum composite materials' conducted by Al-Ameen Engineering College, Erode on 29.03.2021.
- Second year students A.Vimal Vincent, D.Praveen, presented paper on 'Salt water engine' at M L R Institute of Technology on 01.04.2021.

- 6 students presented papers on various topics in intra departmental paper presentation events in VCET, Erode.

### (ii) Sports events

- T.Jithendar Kumar, M.S.Jagan, S.Kamalesh, V.Gobinath, R.Saravanan, R.Sathish and S.Nithin has participated and won III prize in Zonal Cricket sports event conducted by Nandha Engineering College on 28.03.2021.

### (iii) Academic Results

| Odd Semester 2020-21 Pass % |              |
|-----------------------------|--------------|
| Final Year                  | 87.06        |
| Third Year                  | 91.55        |
| Second Year                 | 75.65        |
| <b>Total</b>                | <b>84.75</b> |

#### (iv) Placement Activities

- 35 Final year students got placed in M/s. Hyundai Steel Pipes, Chennai.
- 33 Final year students got placed in M/s. Sakthi Auto Components, Perundurai.
- 11 Final year students got placed in M/s. LGB Industries, Coimbatore.
- 9 Final year students got placed in M/s. Focus Edumatics, Coimbatore.

#### **FACULTY ACHIEVEMENTS**

##### (i) Programme attended by Faculty members

| Name of the Programme | No. of Events |
|-----------------------|---------------|
| FDP                   | 10            |
| Webinar               | 10            |
| STTP                  | 04            |
| <b>Total</b>          | <b>24</b>     |

##### (ii) Publications in International Conferences

- **V.Mohankumar**, 'Design of Multipurpose Sieving Machine' in International Conference on Materials, Manufacturing, Robotics, Automation, Artificial Intelligence and Networking for Industry 5.0 conducted by Excel Engineering College on 28.01.2021 & 29.01.2021.
- **M.Gokul & V.Mohankumar**, 'Analysis on Unsteady Heat Transfer and Fluid Flow Through Sensible Heat Storage System' in International Conference on New Scientific Creations In Engineering and Technology conducted by Nadar Saraswathi College of Engineering and Technology on 19.03.2021.
- **E.Ajai Kumar**, 'Study on Mechanical Behaviour of aluminium Alloy Based Composite Materials' in International Conference on Advanced science and Engineering Research conducted by Al-Ameen Engineering College on 29.03.2021.

##### (iii) Publications in International Journals

- **Dr.A.Thirumoorthy, Dr.R.Kumaravelan & T.C.R.Dinesh**, 'Parametric optimization of high speed turning operation of hybrid aluminium composites using Taguchi – based grey relational analysis' in International Journal of Computational Materials science and surface Engineering, ISSN 1753-3465, Vol-9, Issue-4, pp.261-281, January 2021.

- **A.T.Navinprasad, Dr.R.Prakash & K.Ramakrishnan**, 'Experimental Investigation of Nickel Oxide Nanomaterials with n-Pentane Diesel Blends in Compression Ignition Engine' in IOP Conf. Series: Materials Science and Engineering, ISSN 1757-899X, Vol-1070, Issue- 012126, February 2021.
- **Dr.R.Kumaravelan**, 'Automatic Barrier Control in the Zebra crossing of Roads for Pedestrian Safety' in IOP Conf. Series: Materials Science and Engineering, ISSN 1757-899X, Vol- 1070, Issue- 012126, February 2021.

##### (iv) Book Published

- **Dr.R.Kumaravelan**, published a book on 'ME 8493- Thermal Engineering-I' by Sri Krishna Hitech Publishing Company Pvt Ltd, Chennai on February 2021. (ISBN No: 978-93-89878-33-2)

##### (v) Patents Filled

- **Dr.A.Thirumoorthy, Dr.R.Kumaravelan, T.C.R.Dinesh, L.Arul Shankar, E.Ajai Kumar, M.Gopi, Dr.R.Prakash, D.Kesavan, G.Raja, A.T.NavinPrasad, S.Arunkumar, A.Manojkumar, V.Mohankumar, M.Gokul & D.Senthilkumar** published a patent on 'System and Method for producing Green Composites from Industrial and Agricultural Wastes, on 28.03.2021. (Patent Application Number: 2021101569)
- **Dr.R.Kumaravelan**, published a patent on 'Development of IOT Household Health Safety System', on 02.04.2021. (Patent Application Number: 202141012686)

##### (vi) Award of PhD

- **Dr.R.Prakash**, Assistant Professor (Sr.Gr.), has completed his public viva voce on "Investigations on Solar Photovoltaic-Thermal Water Heating System with Inorganic Salt Mixture Based Phase Change Materials" under Anna University, Chennai on 21.04.2021.