

# 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 2021-22

Volume: 7 Issue: 1

### VISION

To be a centre of excellence in Mechanical engineering through quality education and research thereby producing competent engineers, leaders and entrepreneurs to meet the national and global challenges.

### MISSION

M1: To provide quality education and training through effective teaching - learning process by adopting innovative pedagogical methods.

M2: To develop competent engineers into professionals, leaders and entrepreneurs with ethical values for the requirements of the nation and beyond.

M3: To strengthen the Research and Development activities to meet the global needs.

M4: To impart knowledge on industry specific needs and cutting edge technologies through seminars, workshops and guest lectures.

### 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 2021-22. 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 2021-22. 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.

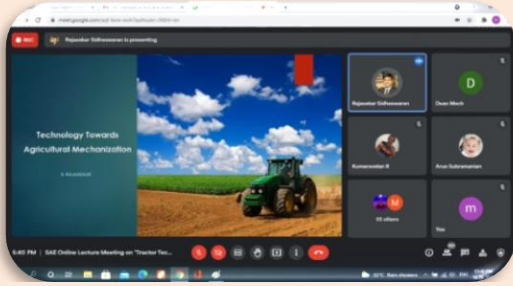
- Dr. M. JAYARAMAN



### FAME Inauguration and Webinar

The inaugural function of 'Fabulous Association of Mechanical Engineers (FAME)' and 'SAE India VCET Collegiate Club' for the academic year 2021-2022 were conducted on 14.09.2021 and organized a webinar on the topic “Manufacturing on Demand from Prototyping to Mass Production”. The chief guest was Mr.V.Tamizhinian, Founder & CEO, Frigate Engineering Services and Private Ltd, Chennai.





### SAE Lecture Meeting

Organized a lecture meeting on the topic “Tractor Technology and Innovations” on 14.08.2021. The Key speakers are Mr. Padakr Surwade, Senior lead Engineer from John Deere and Mr. Rajasekar Siddheswaran, Deputy General Manager from John Deere was the Chief Guest.

### Value Added Course

Organized a Value Added Course for Second year Mechanical Engineering students on “Foundation to CAD using AutoCAD” on 05.10.2021. Trainers from the CADD Centre, Erode gave a training and demo on CAD software to the students and explained the role and importance of design software in industries.



### Guest Lecture

As a part of curriculum enrichment, a guest lecture on “Impact of COVID-19 on Engineers’ Skills to build and career path to follow” on 28.10.2021 is conducted. Mr.N.Charath Chander, Co-Founder, MAXCADD, Coimbatore was the chief guest.

### Guest Lecture

Organized a guest lecture on the topic “Introduction to CAD/CAM” on 28.10.2021. Mr. N. Charath Chander, Co-founder, MaxCADD, Coimbatore delivered the recent trends in CAD/CAM software’s.

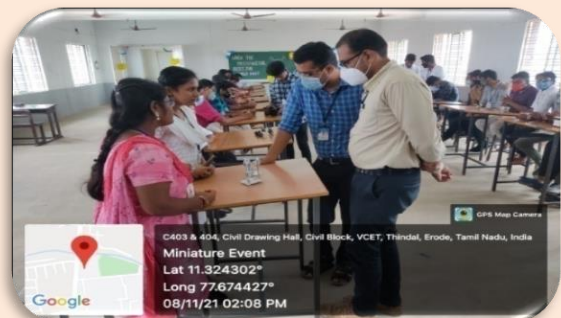


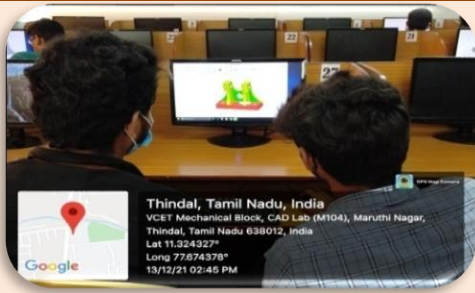
### Webinar

Organized a webinar on “Careers in Armed Forces” on 29.10.2021. Lt. Esan, Commander, Delta Squad delivered the opportunities for Engineers in Armed forces and preparation for various government exams.

### Miniature Model Competition

As a part of curriculum enrichment, an intra-department event called “Miniature Model Competition” was organized on 08.11.2021. Third and Second year students actively participated and got benefited.



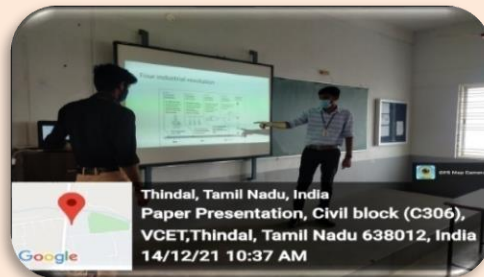


### CAD Modeling Event

An intra-department event called “CAD Modeling” organized on 13.12.2021 for the benefits of students for enhancing the software skills.

### Intra Departmental Paper Presentation

A technical Paper Presentation on the ‘Recent trends in Mechanical Engineering’ was organized on 14.12.2021. 22 papers were presented on various topics.



### Techno Fun Events

An intra-departmental techno fun event called “Connexions” was organized on 15.12.2021 for enhancing their technical knowledge.

### Awareness Programme

Organized an awareness programme on “Outcome Based Education and NAAC/NBA Accreditation Process” on 16.12.2021 for all the students. Dr. R. Kumaravelan, Professor and Head, Mechanical Engineering and Mr. D. Senthil Kumar, NBA Coordinator was delivered benefits and significance of accreditations.



## STUDENTS ACHIEVEMENTS

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

(2017-2021) Batch – Final Year

(2018-2022) Batch – Third Year

(2019-2023) Batch – Second Year



**MOHANRAJA A**  
9.73 CGPA



**KAVINPRASATH M**  
9.53 CGPA



**BARANIKA SRI R**  
9.82 CGPA



**ANIRRUDH  
SHRINATHS**  
9.68 CGPA



**HARISHANKAR J**  
9.40 CGPA



**MOHANPRASATH G**  
9.20 CGPA

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

(2017-2021) Batch – Final Year

(2018-2022) Batch – Third Year

(2019-2023) Batch – Second Year



**RAJA ISHWARIYA S**  
9.36 CGPA



**KAMALI R**  
9.23 CGPA



**SAMUEL D**  
9.76 CGPA



**SARAVANAN R**  
9.60 CGPA



**NAVINKUMAAR S**  
9.68 CGPA



**PRAVEEN D**  
9.63 CGPA

## CO / EXTRA- CURRICULAR ACTIVITIES

### (i) Students Participation in various events

Name of the Programme	No. of Participants
Webinar	10
NPTEL Courses	08
Technical Events	12
<b>Total</b>	<b>30</b>

### (ii) Internship Training

103 students of IV & III year underwent internship training during July-December 2021 to the leading industries including Sun & Co, Autodesk Fusion 360, Agni Steel Pvt Ltd, Argus Technologies, Elite Techno Groups, Emtex Alloy Casters, Endurance Technologies Ltd, Eshwar Forging Industries, Harish Engineering, Mahendra Pumps, Mars Tech, MD Infotech, Modern Engineering Works, Ragavendra Industries, Sivaparvathi Textiles, Sri Murugan Engineering Works, Suguna Engineering Works, TV Sundram Iyengar & Sons Pvt Ltd and Sakthi Sugars Ltd.

### (iii) Placement Activities

- V. Premkumar, Final Year Student got placed in M/s. Wipro Technologies, Chennai.
- P.DhanushKodi and S.Vimalanadhan, Final Year Students got placed in M/s. Cognizant technologies, Chennai.
- Final year students have attended various special training sessions by M/s. Wipro Technologies, Chennai, M/s. LIDO Learning, Chennai, M/s. TCS, Chennai, M/s Cognizant technologies and M/s. DXC Technology, Chennai.

### (iv) Academic Results

Even Semester 2020-21 Pass %	
Final Year (Batch 2017-21)	100
Third Year (Batch 2018-22)	100
Second Year (Batch 2019-23)	98.7
<b>Total</b>	<b>99.5</b>

## FACULTY ACHIEVEMENTS

### (i) Programme attended by Faculty members

Name of the Programme	No. of Events
FDP	15
Workshop	01
Webinar	04
<b>Total</b>	<b>20</b>

- **G.Raja**, 'Fundamentals of Solar Cell Design - Thin-Film Solar Cells, Chapter 4, pp.103-115, August 2021.
- **S.Arun Kumar**, 'Evaluation of tensile strength retention and service life prediction of hydrothermal aged balanced orthotropic carbon/glass and Kevlar/glass fabric reinforced polymer hybrid composites', Vol.139, Issue-6, pp.51602-51619, September 2021.

### (iv) Patents

- **Dr.A.Thirumoorthy, Dr.R.Kumaravelan, T.C.R.Dinesh** published a patent on 'System and Method for Producing Green Composites from Industrial and Agricultural Waste', on 15.09.2021. (Patent Application Number: 2021101569).
- **Dr. A. Thirumoorthy, L. Arul Shankar, E. Ajaikumar** granted an Australian patent on 'Method of synthesizing hybrid metal sand composite and 3D Printing there of optimising using DL', on 22.12.2021. (Patent Application Number:2021105514)

### (ii) Papers Presented in International Conferences

- **Dr.R.Prakash**, 'Comparative Evaluation of Maximum Power Point Tracking in Solar Photovoltaic System using Particle Swarm Optimization and Perturb-Observe Optimization Techniques' in International Conference on Energy and Materials Technologies (ICEMT-2021) conducted by Sri Sivasubramaniya Nadar College of Engineering on 20.08.2021 & 21.08.2021.

### (iii) Publications in International Journals

- **G.Raja**, 'Surface Engineering of Zinc Sulphide Film for Augmenting the Performance of Polycrystalline Silicon Solar Cells', Vol.18, Issue-7, pp. 375-384, July 2021.

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

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