

VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

(Approved by AICTE, New Delhi, Affiliated to Anna University Chennai, Accredited by NAAC with 'A+' Grade & Accredited by NBA)



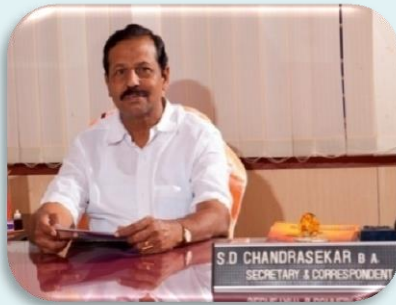
DEPARTMENT OF MECHANICAL ENGINEERING

“VCET-MECHMERIZE”

NEWSLETTER - ODD SEMESTER 2022-23

Volume: 8 Issue: 1

MESSAGE FROM THE SECRETARY



It gives me great pleasure to congratulate students and staff of mechanical department for the first publication of newsletter odd semester 2022-23. Newsletter is believed to be a focus of the inside activities i.e. academics, students and faculty achievement as well as innovation occurring in the department. In the era of engineering and technology this newsletter will motivate the teachers and students of sharing their creativity and new ideas with the world and will help in their overall development. I wish best of luck to all for publication of newsletter.

- 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 2022-23. 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 you a very happy and academically highly rewarding student life in Mechanical Department of VCET and hope that you will be your good deeds enhance the pride and prestige of this prestigious institution.



- Dr. M. JAYARAMAN

MESSAGE FROM THE HEAD OF THE DEPARTMENT



I am happy to note that the Department of Mechanical Engineering is releasing the first issue of ‘VCET MECHMERIZE 2022-23’ enumerating the various activities and achievements of our faculty and students. The department endeavors to produce confident professionals tuned to real time working environment. The department offers excellent academic environment with a team of highly qualified faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them. 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 Guest Lecture

The inaugural function of ‘Fabulous Association of Mechanical Engineers (FAME)’ and ‘SAE India VCET Collegiate Club’ for the academic year 2022-2023 is conducted on 26.08.2022 and delivered a special lecture on the topic “How to be a Successful Mechanical Engineer”. Mr. K. Senthil Kumar, Manager - Customer requirements (Vehicle Dynamics), Continental Automotive Components Pvt. Ltd., Bangalore is the chief guest.





Orientation Programme

Orientation Programme was organized for 2021 -2025 batch students on 01.09.22, 05.09.22 & 12.09.2022 to engage the new students, introduce them the department culture, and create the kind of atmosphere that promotes ongoing student involvements. Dr. R. Kumaravelan, Prof/Head, Department of Mechanical Engg delivered special lecture on “Introduction to Mechanical Engineering”.

Career Guidance and Motivational Training Programme

Organized a motivational training program on 06.09.2022, 19.09.2022 & 20.09.2022 to the third-year students. Resource person Mr. P.Anjesh Kumar, Communication and Soft Skill Specialist, Brainwave, Coimbatore trained the students for Placement and Soft skills development. He motivated the students for their career growth and trained the students on improving communication skills.



Techno Fun Event

In view of Engineers Day Celebration, an intra-departmental techno fun event called “Connexions” was organized on 15.09.2022 to the students for enhancing the technical knowledge. Students from second year mechanical engineering were eagerly participated and got benefited.

Miniature Model Creation Event

As a part of curriculum enrichment, an intra department event called “Miniature Model Competition” was organized on 28.09.2022. Second year and Third year students actively participated and got benefited.

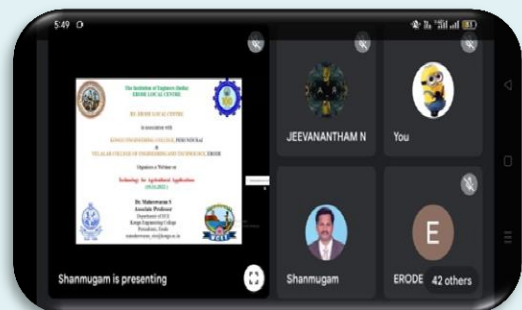


Interaction session

An Interaction session on ‘Motivation and Personality Development’ was organized on 02.11.2022. Mr. J. Thomas Biju, Job performer, Galfar Engineering & Contacting Co. W.L.L Emirates, Abu Dhabi was the resource person, who is the renowned alumni of 2014-18 batch.

Webinar

Organized webinar on Technology for Agricultural Applications in IEI – Erode Local centre on 10.11.2022. Dr. S. Maheswaran, Associate Professor, Department of Electronics and Communication Engineering, Kongu Engineering College, Perundurai was the chief Guest. In his lecture, he explained about automations in agricultural field and power consumption techniques.





Workshop

A one-day hands on workshop on “Manufacturing Technology-GD&T” was organized on 17.11.2022. Mr.S.Senniappan B.E., CEO-Mech Tech Engg Centre, Coimbatore was the resource person. He explained the importance of geometric dimensioning and tolerancing to the third year students.



Motivational Programme

Organized a Motivational programme on the topic ‘Effective leadership’ on 05.12.2022. Sub Lieutenant BALAMURUGAN L, Indian Navy was the chief guest. He motivated the students for their career growth and talked about SSB exams & effective leadership skills. He was our renowned alumni of 2016 – 2020 batch.



International Guest Lecture

Organized an international guest lecture on “Tailoring Mesoporous Materials for Environmental Applications” on 08.12.2022. Dr. Naimah Ibrahim, Associate Professor, Universiti of Malaysia Perlis is the chief guest. In her lecture, she explained about, Emissions of acidic gases, Ocean Acidification, treatment on pores and morphology.

STUDENTS ACHIEVEMENTS

Academic Toppers– Even Semester 2021-22

(2018-2022) Batch – Final Year

(2019-2023) Batch – Third Year

(2020-2024) Batch – Second Year



BARANIKA SRI R
9.84 CGPA

SAMUEL D
9.78 CGPA

NAVINKUMAAR S
9.68 CGPA

PRAVEEN D
9.63 CGPA

SAPNAA N
9.89 CGPA

SANTHIYA R
9.61 CGPA

CO- CURRICULAR AND EXTRA- CURRICULAR ACTIVITIES

(i) Students Participation in various events

Name of the Programme	No. of Participants
Workshop	71
NPTEL Courses	41
Technical Events	23
Total	135

(ii) Academic Results

Even Semester 2021-22 Pass %	
Final Year (Batch 2018-22)	97.89
Third Year (Batch 2019-23)	82.67
Second Year (Batch 2020-24)	72.73
Total	86.01

(iii) Internship Training

23 students of IV & III year underwent internship training during July-December 2022 to the leading industries including Kodacy Space, Rodamine Apparel Industries Pvt Ltd, Mettur Thermal Power Station, Shanthi Feeds, Vinayaga Electro Alloy (I) Pvt Ltd, V-Guard.

(iv) Placement Activities

- S.Navin Kumar, Final Year Student got placed in M/s. Vuram Technologies, Chennai.
- M.Vinoth, Final Year Student got placed in M/s. Cognizant, Chennai.
- C.Dharun Kumar, Final Year Student got placed in M/s. Zuci Systems, Chennai.
- S.Nivetha got placed in M/s. Renault Nissan Technology and Business Centre, Chennai.
- M.Prabakaran got placed in M/s. Infiniti Software Solutions, Chennai.
- D.Rajasekar, K.N.Sangeethraja, B.Sanjay, R.B.Santhosh and P.Soundar got placed in M/s. Delphi TVS Technologies Limited, Chennai.

FACULTY ACHIEVEMENTS

(i) Programme attended by Faculty members

Name of the Programme	No. of Events
FDP	32
Workshop	02
Webinar	01
Other Events	03
Total	38

(ii) Papers Presented in International Conferences

- **G.Raja** presented a paper on “Design and Fabrication of Passive Safety Devices for Heavy Vehicles to Prevent Human Accidents using AI” in the First Virtual International Conference on Fuel, Energy and Environment – ICREE 2022 organized by Kongu Engineering College on 09.06.2022 & 10.06.2022.
- **A.T.Navin Prasad, Dr.R.Prakash, Dr.R.Kumaravelan** presented a paper on “An Experimental Study on the Performance and Emission Characteristics of CI Engines using Bio-oil Blends from Moringa Oleifera” in ICRAMM 2022 on 08.12.2022 & 09.12.2022 organized VCET, Erode.
- **D.Senthil Kumar** presented a paper on “Investigation of vegetable oil as dielectric fluid in electric discharge machining” in ICRAMM 2022 on 08.12.2022 & 09.12.2022 organized VCET, Erode.

(iii) Publications in International Journals

- **A.T. Navin Prasad, Dr.R.Prakash**, ‘A Review on materials and methods used to improve absorption and condensation on the solar desalination process, Journal of Advanced Mechanical Sciences (JAMS) Vol.1, Issue 4, pp.114-124, December 2022. (e-ISSN: 2583-3790)
- **Dr.S.Velumani** ‘Design and Development of a Low-Cost Handheld Vacuum Cleaner, International Journal of Trend in Scientific Research and Development (IJTSRD), Vol.6, Issue 7, pp.639-644, December 2022. (e-ISSN: 2456 – 6470)

(iv) Patents & Copyrights

- **Dr.R.Kumaravelan** published patent titled “A System for Quality Monitoring and Management of Water in Stored Condition thereof” on 22.07.2022.
- **Dr.R.Prakash, A.T.Navinprasad, K.Ramakrishnan, D.Senthilkumar** published a patent titled “Solar Power based Health Monitoring System for Rural People” on 16.09.2022.
- **Dr.S.Velumani** filed copyright on “Machining Processes Laboratory- Laboratory Manual” on 21.11.2022.
- **Dr.S.Velumani** published Patent on “An Autonomous Intelligent Lightweight Robot for Health Care Monitoring” on 09.12.2022.
- **D.Senthilkumar & Dr.R.Kumaravelan** filed copyright on “Dynamics and Metrology Laboratory Manual” on 09.01.2023.

(v) Funding Proposal Sanctioned and Applied

- **L.Arul Shankar** received a Seminar Grant of Rs. 7500 under TNSCST Student Project Scheme on the title “Design and Fabrication of Mint Cutter using Cam Mechanism”
- **Dr.R.Kumaravelan** received a Seminar Grant of Rs. 7500 under TNSCST Student Project Scheme on the title “Design and Fabrication of Eco-Friendly Two Wheeler for Differently Abled”
- 12 Seminar Proposals of Rs. 4.65 lakhs and One DST-SERB Research Proposal of 1.5 lakhs has been applied during 2022-23

(vi) MoU Signed

- Name of Industry: Sre Andavar Looms, Namakkal
- Scope of the MoU: Industrial visit, In plant training and special training. Guest lectures and R&D, Problem solving, Studies and survey. Placement assistance
- Date of Sign: 19.12.2022
- Validity: 1 year