

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 - 2018-19

Volume: 4 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 2018-19. 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 2018-19. 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 2018-19’. 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

ICMR Sponsored National Level Seminar

ICMR sponsored, One day National level seminar on “Advance Cermet composite for Medical applications” was organized on 02.06.2018. The chief guest Dr. P.S. Sampath, Professor/Mech, K.S.Rangasamy College of Technology, Namakkal has inaugurated the function and Dr. R. Rajasekar, Professor/Mech, Kongu Engineering College, Erode delivered a lecture on the research avenues in the area of cermet ceramic composites.





ICMR Sponsored National Level Seminar

ICMR sponsored, One day National level seminar on “Bio materials based 3D cell printing for next generation therapeutics and diagnostics” was organized on 22.06.2018. The chief guest Dr. Rajesh Ranganathan, Professor/Mech, Coimbatore Institute of Technology, Coimbatore has inaugurated the function and Dr.E.Prakash, Professor/Mech, Bannari Amman Institute of Technology, Sathyamangalam, Erode delivered a lecture on recent developments in 3D-Cell Printing for HealthCare.

FAME Inauguration and Guest Lecture

The inaugural functions of ‘Fabulous Association of Mechanical Engineers (FAME)’ and ‘SAE India VCET Collegiate Club’ for the academic year 2018-2019 were conducted on 13.07.2018 and organized a guest lecture on the topic “Smart Manufacturing / Industry 4.0”. Mr.R.Ram Prasad, Senior Manufacturing Consultant – Oracle/SAP, Doosan Bobcat India Pvt. Limited, Chennai was the chief guest.



ICMR Sponsored National Level Seminar

ICMR sponsored, One-day National level seminar on “Recent Techniques in Biomedical Waste Management System” was organized on 10.08.2018. Dr. A.Arulmani MD., Assistant Professor, Department of Community Medicine, IRT Perundurai Medical College, Erode was the chief guest. He inaugurated the function and delivered a lecture on Biomedical Waste Management System. Dr. S.Rajendra Kumar, Assistant Professor, Centre for Sustainable Future, Amrita University, Coimbatore delivered a lecture on Regulations and Acts for Biomedical Waste Management System in India and Dr. K.Kannan, Professor, Department of Chemical Engineering, Kongu Engineering College, Erode delivered a lecture on Treatment and Disposal of Biomedical Wastes.



Workshop on GD&T

A one-day hands on workshop on “Manufacturing Technology-GD&T” was organized on 10.08.2018. 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 final year students.



Special Lecture on CAD Software

Organized a special lecture on CAD software on 25.08.2018. 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.



SAE Events

SAE INDIA VCET COLLEGIATE CLUB organized Tier-I events on 01.09.2018 for the mechanical engineering students. Various technical events were conducted on this program. Students had actively participated in various events like Paper presentation, Auto Quiz, Welding, Machining, Mobile Robotics, Business Plan, Material Identification and empower their talents in their respective fields.

Intra Departmental Activity Day

Various Intra-departmental events were organized on the Activity day on 07.09.2018. All students were actively participated in the events like Paper presentation, Technical Quiz, Water Rocketry, Clay Modeling, CAD modeling and Drafting contest.



Special Lecture

Organized a special lecture to the Final year Mechanical Engineering students on the topic 'Applications of PLC based Controllers in Automotive' on 15.10.2018. Dr.K.R.Valluvan, Professor, Department of Electronics and Communication Engineering delivered a lecture on applications of PLCs and scope of mechatronics in industries.

STUDENTS ACHIEVEMENTS

Academic Toppers (A Section) – Even Semester 2017-18

(2014-2018) Batch – Final Year

(2015-2019) Batch – Third Year

(2016-2020) Batch – Second Year



MANJULADEVI M
8.63 CGPA



VELAYUTHAM V
8.37 CGPA



AJITHKUMARAN K S
7.64 CGPA



LOGESWARAN R
7.44 CGPA



JAGATHESWARAN V
9.38 CGPA



JAWAHARBABU R
9.19 CGPA

Academic Toppers (B Section) – Even Semester 2017-18

(2014-2018) Batch – Final Year

(2015-2019) Batch – Third Year

(2016-2020) Batch – Second Year



THOMAS BIJU J
8.12 CGPA



GUNASEKAR K
7.80 CGPA



PIREYANKA T V
8.01 CGPA



SURIYANARAYANAN T
7.63 CGPA



RANJITHKUMAR K
9.31 CGPA



VIGNESH R
9.08 CGPA

CO / EXTRA- CURRICULAR ACTIVITIES

(i) Students Participation in various events

Events	Participated	Prizes won
Paper Presentation	15	2
Technical Quiz	2	1
Other events	15	11
Workshop	26	-
Total	58	14

(ii) Industrial Visits

Students underwent Industrial visit to the TVS Motors Hosur, Ashok Leyland Hosur and Anamalai's Engineering Coach Builders, Pollachi.

(iii) In-Plant Training Underwent

104 students of IV, III & II year underwent industrial training during April-June 2018 to the leading industries including Tamil Nadu Newsprint and Papers Limited, India Cements Ltd., Dynepro Pvt. Ltd., Aurora Institute & Inspection Services, Lucky Yarn tex India Private Limited, I-Tech Metal Industries, Steel Authority of India, Mitsubishi Heavy Industries India Precision Tools Ltd., C Cube, TNSTC - R/C Unit Chithode and Southern Railway Diesel Loco Shed, Erode.

(iv) Placement Activities

- Final year student A.Syedmohideen got placed in Milekal, Chennai.
- Final year student T.Pavithran got placed in Lakshmi industries, Coimbatore.

(v) Academic Results

Even Semester (2017-18) Pass %	
Final Year	82.93
Third Year	23.73
Second Year	70.25
Total	59.39

FACULTY ACHIEVEMENTS

(i) Programme attended by Faculty members

Programme	No. of Events	No. of Faculty
FDP	4	5
Workshop	4	6
Seminar	7	70
Total	15	81

(ii) Publications in International Journals

- V. MohanKumar, "Wear Behaviour of Aluminium Alloy 7075 hybrid Reinforced Composite", International journal of innovative research in science, engineering and technology, ISSN 2347-6710, Volume-7, Issue-04, April 2018,
- M.Jayaraman, "Performance of multi cylinder diesel engine fueled with mahua biodiesel using selective catalytic reduction (SCR) technique", International Journal of Energy Sources (Taylor & Francis Online), ISSN 1556-7230, Volume-40, Issue-16, Page 1910-1918, Jun 2018.
- A.Thirumoorthy, "Analysis of Aluminium Based Hybrid Composite and Prediction of its Wear rate using GA-ANN Approach", International Journal of the Chinese Society of Mechanical Engineers, ISSN 0257-9731, Volume-39, Issue-06, Page 674-693, July 2018.
- M.Jayaraman, "Study of the microstructures and mechanical properties of aluminum hybrid composites with SiC and Al₂O₃", International journal of Materials in technology / Materials and technology, ISSN 1580-2949, Volume-01, Page 49-55, Sep 2018.
- M.Jayaraman, "Mechanical properties of 7075-t6 aluminium alloy surface hybrid composites synthesized by friction stir processing", International journal of rapid manufacturing, ISSN 1757-8825, Volume-08, Issue-1-2, Nov 2018.

(iii) Grants Received

- Dr. M. Jayaraman and G.Mahanandha received a grant of Rs.30000/- from the Indian Council of Medical Research (ICMR), New Delhi for organizing a One day National level Seminar on "Advance Cermet composite for Medical applications".
- Dr.M.Jayaraman, Dr.S.Velumani and V.Mohankumar received a grant of Rs.30000/- from the Indian Council of Medical Research (ICMR), New Delhi for organizing a One day National level Seminar on "Bio Materials based 3D Cell Printing for next generation therapeutics and diagnostics".
- Dr.R.Kumaravelan, K.Ramakrishnan and A. Thirumoorthy received a grant of Rs.40000/- from the Indian Council of Medical Research (ICMR), New Delhi for organizing a One day National level Seminar on "Recent Techniques in Bio-Medical Waste Management System".

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

*Associate Editors: Mr. T. Anandaraj, AP/Mech.
Mr. D. Kesavan, AP/Mech.*