

# 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 - 2017-18

Volume: 3 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 2017-18. 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 2017-18'. 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 2017-18'. 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

### SAE-VCET Club Inauguration

SAEINDIA- VCET COLLEGIATE CLUB was inaugurated on 29.04.2017. **Mr.S.Sriraman, Senior Vice President, TAFE** Chennai & Chairman SAEISS was the Chief Guest and delivered a lecture on 'Tractors for Modern Farming'. **Dr.P.Navaneethakrishnan** Professor & Head, Department of Mechanical Engineering, **Kongu Engineering College**, Erode explained about various statistics, modern equipment and precision farming in the agriculture field.





### Inauguration of Association Activities

The activities of FAME (Fabulous Association of Mechanical Engineers) for the academic year 2017-18 were inaugurated on 07.07.2017. **Mr.P.Prabhakaran**, Design Engineer, **Caterpillar India Pvt. Ltd**, Chennai was the Chief Guest. He delivered a special lecture on "Design Practices in Industries".

### CSIR Sponsored Seminar

A CSIR sponsored National Level Seminar on 'Modern HVAC Systems for Nearly Zero Energy Buildings' was organized on 22.07.2017. **Dr.R.Velraj**, Professor & Director, Institute for Energy Studies, **Anna University**, Chennai was the Chief Guest and delivered a lecture on 'Technologies and Innovations to Minimize Energy Consumption in Buildings'. **Dr.S.Kalaiselvam**, Professor & Head, Department of Applied Science and Technology, **Anna University**, Chennai and **Mr.S.Thirumurugan**, Assistant Professor, Department of Mechanical Engineering, **Coimbatore Institute of Technology**, Coimbatore were the resource persons and delivered lectures on 'Technologies and Innovations to Minimize Energy Consumption in Buildings'.



### Guest Lecture

A Guest Lecture on 'CFD for Industrial Applications' was organized on 26.07.2017. **Dr.P.T.Saravanakumar**, Associate Professor, Department of Mechanical Engineering, **Sri Ramakrishna Engineering College**, Coimbatore was the keynote speaker. He explained about basics of CFD, Fluid flow analysis and its industrial applications.

### TNSCST Sponsored Seminar

A National Level Seminar on 'Hydrogen Fuelled Vehicles', sponsored by Tamilnadu State Council for Science and Technology (TNSCST) was organized during 18.08.2017 and 19.08.2017. **Dr.N.Rajalakshmi**, Senior Scientist, **Centre for Fuel Cell Technology (ARCI)**, IIT Madras Research Park, Chennai inaugurated and delivered a speech on 'Hydrogen Production and Storage Technologies'. **Dr.C.B.Srinivasan**, Associate Professor, Department of Mechanical Engineering, **Jansons Institute of Technology**, Coimbatore delivered a lecture on 'Hydrogen as a fuel in CI Engines'. **Dr.E.Rajasekar**, Associate Professor, Department of Automobile Engineering, **Institute of Road and Transport Technology**, Erode delivered a speech on 'Hydrogen fuel cells'. Around 100 participants from various institutions and industries participated and got benefitted.



### Special Lecture

A special lecture on 'Microprocessors and Microcontrollers' was delivered by **Dr.P.Brindha**, and **Ms. M.Parimala Devi**, Assistant Professors, Department of Electronics and Communication Engineering for the final year B.E. Mechanical Engineering students on 24.08.2017 & 25.08.2017.

### Workshop

A workshop on 'Impact of CAD software in Engineers Future' was organized on 24.08.2017. Trainers from the CADD Centre, Erode gave a training and demo on CAD software to the students and they felt benefitted.



### Special Lecture

A special lecture on 'Introduction to PLCs and their applications in Machine tools' was organized on 05.09.2017 for the final year B.E. Mechanical Engineering students. **Dr.K.R.Valluvan**, Professor, Department of Electronics and Communication, VCET was the resource person. In his lecture, he explained the concepts of PLC and its real time applications.

### Workshop

A workshop on 'Engine Health Checkup' in association with **Sri Senthil Autos**, Hero Showroom, Erode was conducted on 09.09.2017. The two wheeler engine setup and working methods were explained to the students.



### Guest Lecture

A guest lecture on 'Placement opportunities in core Industries' was conducted on 15.09.2017. **Mr.I.Subash**, Design Engineer, **Ashok Leyland Technical Center**, Chennai addressed the students on career opportunities.



### Guest Lecture

A guest lecture on 'Creativity, Innovations and Entrepreneurship for Engineers' was organized on 18.09.2017. **Mr.S.K.Prithviraj**, Senior Project Associate, **Cognizant Technology Solutions**, Coimbatore addressed the students on the Entrepreneurship Opportunities, Leadership Qualities and Team Management.

### Intra Departmental Activity Day

Various technical events were organized in connection with the **Intra Departmental Activity Day** on 23.09.17. Final, Third and Second year B.E. Mech. students were actively participated in the events like Paper presentation, Technical Quiz, Water Rocketry and CAD drawing.



## STUDENTS ACHIEVEMENTS ACADEMIC TOPPERS (A Section)

(2013-2017) Batch – Final Year

(2014-2018) Batch – Third Year

(2015-2019) Batch – Second Year



PAVITHRAN C  
8.30 CGPA



THANGAPERUMAL R  
8.26 CGPA



MANJULADEVI M  
8.58 CGPA



VELAYUTHAM V  
8.44 CGPA



PIREYANKA T V  
8.60 CGPA



SHRI KRISHNA U  
8.08 CGPA

## STUDENTS ACHIEVEMENTS ACADEMIC TOPPERS (B Section)

(2014-2018) Batch – Third Year

(2015-2019) Batch – Second Year



**THOMAS BIJU J**  
8.13 CGPA



**GUNASEKAR K**  
7.80 CGPA



**AJITHKUMARAN K S**  
7.75 CGPA



**KAVINI P**  
7.39 CGPA

### CO / EXTRA- CURRICULAR ACTIVITIES

#### (i) Students Participation in various events

Events	Participated	Prizes won
Paper Presentation	14	4
CAD Modeling	18	-
Technical Quiz	17	2
Other events	12	6
Workshop	96	-
Seminar	229	-
<b>Total</b>	<b>386</b>	<b>12</b>

#### (ii) Industrial Visits

Students underwent Industrial visit to the Mettur Thermal Power Plant, Salem and Anamalai's Engineering Coach Builders, Pollachi.

#### (iii) In-Plant Training Underwent

45 students of IV, III & II year underwent industrial training during April-June 2017 to the leading industries including TAFE Access Limited., Sakthi Knitting Pvt. Limited, Renault Service Centre, Ashok Leyland, SK Motors, Tamilnadu State Transport Corporation Limited and Southern Railway Diesel Loco Shed, Erode.

#### (iv) Papers presented by students

- T.Elangovan and R.Chandra Prakash won First prize in Paper presentation event 'Throttle 2k17' event at K.S.R College of engineering on 28.07.2017.
- T.V.Pireiyanka and S.Monika won Second prize in Paper presentation event 'Henosis 2k17' event at Dr.N.G.P Institute of Technology on 23.09.2017.

#### (v) Academic Results

Even Semester (2016-17) Pass %	
Final Year	100
Third Year	57
Second Year	28
<b>Total</b>	<b>55</b>

### FACULTY ACHIEVEMENTS

#### (i) Publications in International Journals

- S. Arunkumar et al., "Synergy of cashew nut shell filler on tribological behaviors of natural-fiber-reinforced epoxy composite", Science and Engineering of Composite Materials, DOI10.1515/secm-2016-0243.
- Dr.M. Jayaraman et al., "Investigation of the Wear behavior of an AISI 1040 forged steel shaft with plasma-spray ceramic-oxide coatings for sugar-cane mills", Materiali in Tehnologije/Materials and Technology, ISSN:1580-2949, Vol 51, Issue 6 , Page 939-944.

#### (ii) Papers presented in Conferences

- D.Kesavan, L.Arulshankar, M.Gokul, T.Anandaraj and S.Surendar Presented papers in National level Conference titled 'Additive Manufacturing in Bio-Medical Applications' Sponsored by ICMR at K.S.R College of Technology on 24.08.2017.

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

Events	No. of Programmes attended
FDP	03
Workshop	03
Seminar	68
<b>Total</b>	<b>74</b>

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

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