

NIRVANA

DEPARTMENT OF MECHANICAL ENGINEERING
VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR. 08251-234555



Volume: 8

Issue: 1

Pages: 02

JAN 2021

BIANNUAL NEWSLETTER

Engineers Day Celebration

Engineers Day was celebrated on 15th of September 2020 at Dept. of Mechanical Engineering. Event was jointly organized by Mechanical Engineering Students Association (MESA). Prof. Harish S.R., staff coordinator MESA gave a brief introduction about Sir M Visvesvaraya and also welcomed the invitees. Dr. Manujesh B J, HOD of Department of Mechanical Engineering, after flowering the portrait of Sir M. V., in his address to the invitees said that, Sir M V was a gift to the nation from the state of Karnataka. He is a supreme model for every engineer to serve the nation and wished



everyone a happy engineer's day. All the teaching and non-teaching faculty members of Mechanical Department were present on this occasion. The entire event was live telecasted on Microsoft teams platform with around 60+ online participants including staff and students from various departments. Finally, Prof. Harish S R., concluded the program by vote of thanks.

EDITORS TEAM

Mr. Sudarshan M L

- Chief Editor

Mr. Ajith Kumar

Mr. Satheesha Kumar

- Co-Editors

Mr. Shashank Anar

Ms. Priyanka R

Prabhu

- Associate Editors



STEEL

Steel, an alloy of iron and carbon, has been known since the Iron Age.

The first blast furnaces capable of making usable steel began appearing in China around the **6th Century BC** and would spread into Europe during the Middle Ages. By the **17th Century** steel-making was more or less well-understood, and by the **19th Century** production methods and quality were improved dramatically with the development of the Bessemer process. Early metallurgists realized that when iron gets very hot it begins to absorb carbon. This, in turn, reduces the melting point of iron as a whole and makes the final product brittle.

In around **1050 AD** the precursor to the modern Bessemer Process was developed. This process decarbonized the metal through repeated forging under a cold blast.

Vision

“To be a well-recognized department striving continuously by providing conducive environment for learning, leading to, creative and innovative Mechanical Engineers”

Mission

M1: Students: To prepare, educate, inspire and mentor the students to excel as Professionals.

M2: Faculty: To edify, encourage and support in academic and research activities.

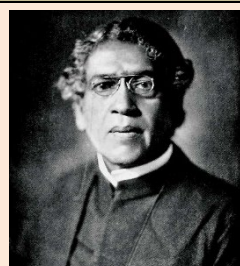
M3: Infrastructure: To render facilities and infrastructure in the field of Mechanical Engineering.

M4: Teaching Learning: To improve pedagogical methods employed in delivering the academic Programs to the needs of the industry.

Sir Jagadish Chandra Bose

This exceptional man was a physicist, botanist and a pioneer in radio science and more. He conducted experiments to prove plants feel heat, cold, light, noise, happiness and pain. He is known for two books: Response in the Living and Non-living and The Nervous Mechanism of Plants. He also conducted research on radio waves. His instrument, the **Crescograph** can measure plant growth.

His work may have contributed to the development of radio communication. He is also credited with discovering **millimetre length electromagnetic waves** and being a pioneer in the field of biophysics. Many of his instruments are still on display and remain largely usable now, over 100 years later.



Webinar on Essentials of a Job Interview

Department of Mechanical Engineering had organized a **Webinar on Essentials of a Job Interview**, in association with Mechanical Engineering Students Association (MESA), Alumni Association & ISTE Student Chapter on 22nd October 2020. Mr. Kavan Nayak, Sr. Product Design Engineer, Mercedes-Benz R&D India Pvt Ltd had participated as a resource person for the event. He gave a detailed insight of facing a job interview. The session was interactive and many student queries were answered by the presenter based on his experience. The entire event was live telecasted on Microsoft teams platform with around 100+ online participants including staff and students from mechanical engineering department. Initially, Prof. Harish S. R., staff coordinator MESA gave a brief introduction about the resource person and also welcomed the participants. Prof. Bhaskar Kulkarni, concluded the program by vote of thanks.



Vedic Mathematics

Base 10 - Above base	Multiplication by 9	Division by 9
$\begin{array}{r} +5 \quad 2^{\text{nd}} +9 \\ \quad \quad 1^{\text{st}} \\ 15 \times 19 \\ 24 \mid 45 \\ (15+9 / 5+19) \quad (9 \times 5) \\ \text{Ans : 285} \end{array}$	$\begin{array}{r} 59 \times 99 \\ 58 \mid 41 \\ (59-1) \quad (9-5 / 9-8) \\ \text{Ans : 5841} \end{array}$	$\begin{array}{r} 2513 \div 9 \\ \begin{array}{r} 278 \\ 270 \\ 13 \\ 126 \\ 3 \end{array} \\ \text{Ans : 279 Remainder 2} \end{array}$

$$\begin{aligned} 104 + 3 &= 107 \\ 103 + 4 &= 107 \\ 3 \times 4 &= 12 \\ 104 \times 103 &= 10712 \end{aligned}$$

Industry expectation from Mechanical Engineering Graduates



A talk on **“Industry expectation from Mechanical Engineering graduates”** was conducted on **19th August 2020** at Department of Mechanical Engineering, was organized in association with VCET Alumni Association. It was targeted on 15 students, who got placed in **Ashok Leyland**. The speaker gave an insight to the industry expectation from Mechanical Engineering graduates in **Ashok Leyland**. He also motivated the students by giving brief introduction about company and work culture to be maintained during working hours in the company.

Largest Dump Truck

With a massive weight of **360 tonnes**, Belaz 75710 is indeed the world's largest dump truck with a hauling capacity of **450 tonnes**. To achieve such a feat, the giant dump truck consists of a pair of eight wheels, each capable of supporting **102 tonnes**. The gigantic truck is powered by **two 16-cylinder diesel engines** that churn out an incredible 3430 kW of horsepower with a top speed of **64 km/h**. Built by the engineers of a Belarusian company, this mechanical engineering marvel comes with a price tag of about **\$6 million**.

PARENTS MEET

The Parent Teacher Meeting for B.E. Semester 3, 5 & 7 was organized on 10th of November 2020 to discuss about students' progress and performance at the institute. The program was conducted through online mode using Microsoft Teams. The parents were intimated about the meeting well in advance through DUGC members and the link was shared prior to the meeting. The meeting commenced at 4.30 pm by welcoming all the parents, students & staffs. All the staffs have participated in the event. The discussion on CIE-1, attendance status, Online classes and its status were cordially discussed. Head of the Department, Dr. Manujesh B J explained the importance of this parents-teachers meet in this pandemic. The pros & cons of the ONLINE teaching discussed and documented. Around 28 parents across all the years were participated and few parents interacted/expressed with their doubts on the commencement of the academics and procedure to be followed if college reopened. The interaction was successful and the Head of the Department Dr. Manujesh B J gave awareness on the SOP, COVID-19 policy and procedures to be implemented during the coming up days, safety measures at VCET Hostels and for day scholars about their transportation and other related issues were highlighted and discussed. All the class advisors and Dept. PRC/GRC coordinator's present in the meeting.



“Be so busy improving yourself that you have no time to criticize others”

- Chethan Bhagat