



Bapuji Educational Association®  
**BAJUJI INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVANGERE.**

# Mech News

**Semiannual News Letter of Mechanical Engineering Department**

January-December 2020

(For private circulation only)

Issue : 01

*All of us do not  
 have an equal  
 talent, yet all of us  
 have equal  
 opportunities to  
 develop our  
 talents -  
 Ratan Tata*

**OUR VISION:** *The department endeavors to be a center of excellence to provide quality education leading the students to become professional mechanical engineers with ethics, contributing to the society through research, innovation, entrepreneurial and leadership qualities.*

## Editorial Board

Chief Editor:

Dr. S.Kumarappa.  
 Professor & Head  
 Mechanical Engineering Department

Advisors:

Prof. Y.Vrushabhendrappa  
 Director, BIET, Davanagere

Dr. H. B. Aravinda  
 Principal, BIET, Davanagere

Editors:

Dr. Sharan A. S.  
 Associate Professor  
 Mechanical Engineering Department.

Mr. D.E.Umesh.  
 Asst Professor  
 Mechanical Engineering Department.

Mr. Sharan Mudda  
 Asst Professor  
 Mechanical Engineering Department.



## In This Issue....

- ✚ Departmental Activities
- ✚ Faculty Column
- ✚ Students Column
- ✚ Article Column
- ✚ Photo gallery

## DEPARTMENT MISSION:

- ✚ *To impart quality technical education to students through effective teaching learning process leading to development of professional skills and attitude to excel in Mechanical Engineering.*
- ✚ *To interact with reputed institutions and R & D organizations to enhance academic and research activities.*
- ✚ *To inculcate creative thinking abilities among students and develop entrepreneurial skills and innovative ideas.*
- ✚ *To imbibe ethical, environmental and moral values amongst students through broad based education.*

## Program Educational Objectives (PEOs) of the Department

1. *Enable to understand mechanical engineering systems those are technically viable, economically feasible and socially acceptable to enhance quality of life.*
2. *Apply modern tools and techniques to solve real problems in mechanical and allied engineering streams.*
3. *Communicate effectively using innovative tools to demonstrate leadership and entrepreneurial skills.*
4. *Be a professional having ethical attitude with multidisciplinary approach to achieve self and organizational goals.*
5. *Utilize the best academic environment to create opportunity to cultivate lifelong learning skills needed to succeed in profession.*

## Program Specific Outcomes (PSOs) of the Department

1. *PSO1: Apply the acquired knowledge in design, thermal, manufacturing and interdisciplinary areas for solving industry and socially relevant problems.*
2. *PSO2: To enhance the abilities of students by imparting knowledge in emerging technologies to make them proficient mechanical engineers.*



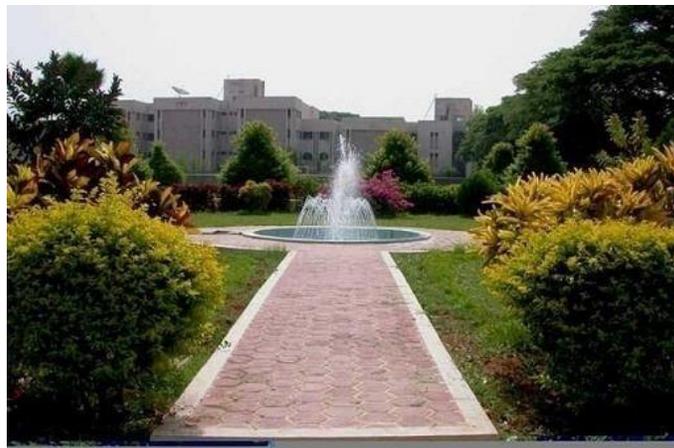
**Dr. S. Kumarappa**  
Professor & Head of Department

Mechanical Engineering – a core engineering discipline – plays a central role in creation of the materialistic world. The department offers undergraduate, postgraduate programs in Machine Design and Thermal Power Engineering. Department also had a Research Centre and Product Development Cell.

The department has a team of highly qualified, dedicated and experienced faculty in order to contribute to the technical education and research, which helps to old young engineers by igniting their minds. In addition to academics, the department strives for the holistic development of students by arranging various activities like seminar, conference, workshops, industrial visit, training & placement activities. Students are also encouraged to carry out in-house projects and motivate them to apply for grants from national agencies like KSCST, AICTE and DST. The department believes in preparing ethical leaders who are not only committed to Industry but also to the serve the society through Entrepreneurship.

The department is actively encouraging the students for co-curricular and intercollegiate activities and sports. Students have received several awards and appreciations in these activities. The department has a vibrant alumni network, through which the alumni are sharing their views. The department conducts interaction programs with distinguished alumni and the current students. Our alumni are pursuing higher studies in various reputed institutions in India and premier foreign Universities across the world in diversified field in Mechanical Engineering.

Some of our distinguished alumni are serving in reputed organizations in higher positions. Few alumni are also serving in Government organizations and public sectors after qualifying UPSC and KPSC exams.



*Excellence is a  
Continuous process  
and not an Accident*

*A.P.J. Abul Kalam*



# Departmental Activities



1. Organized a Three days' workshop on Design, fabrication and testing of Two-Wheeler Electric vehicle on 6th – 8th March 2020, around 60 students attended workshop. The workshop was inaugurated by Sri Suraj S. D Co-Founder &CEO, DECIBELS LAB Pvt Ltd Bangalore. The Principal Dr. M.C. Nataraja, the Director Prof. Y. Yrushabhendruppa were the chief guests, HOD Dr. S. Kumarappa, Forum Coordinator's D.E. Umesh and Mohan T R and all teaching and non-teaching staff members were attended the inaugural function.



2. Organized talk on Outcome based Education and Accreditation by Dr. B. B. Kotturshettar, Professor and Head and Dr. G. U. Raju, Associate Professor, School of Mechanical Engineering, KLE Technological University, Hubballi On Feb 20, 2020.



3. Organized Invited a technical talk on opportunities in higher education and different competitive exams by Mr.Nagaraja S Malagi center, Director, T.I.M.E, Davanagere. Program was conducted on 12th March 2020 by Mech Forum. HOD Dr. S.Kumarappa, Forum Coordinators D.E. Umesh and Mohan T R.



4. Dr. Kumarappa Organized webinar on 'EV modeling and simulation' in association with ISTE and Decibels lab, Bangalore on 26th June 2020.

**Bapuji Institute of Engineering & Technology, Davangere, Karnataka**  
**Department of Mechanical Engineering**  
**National Webinar on**  
**Recent Advances in Autonomous Vehicles**

**Patrons**  
**Dr. H B Aravind**  
 Principal, BIET

**Prof. Y Vrushabhendruppa**  
 Director, BIET

**Organised by**  
**Dr. S Kumarappa**  
 Prof. & Head  
 Dept. of Mechanical Engineering  
 Bapuji Institute of Engineering and Technology

**In Association with**  
 Rove Labs Pvt Ltd  
 Bangalore

**Speaker**  
**Shreyas Vernekar**  
 Co-Founder & CEO  
 Rove Labs Pvt Ltd, Bangalore

**9th August 2020**

5. Dr. Kumarappa Organized National webinar on 'Recent advances in Autonomous vehicles' in association with Rove labs Pvt. Ltd., Bangalore on 9th August 2020.
6. Dr. Kumarappa Organized webinar 'Benefits and Opportunities in Mechanical Industry' in association with Princeton Smart Engineers, Bangalore, on 8th September 2020.



7. Academic Audit meeting held on 4th December 2020.



8. Faculty members participated in Virtual Labs Faculty Development Program for Engineering Colleges organized by VTU Belagavi in association with National Institute of Technology Karnataka, Surathkhal on 20-10-2020.

# Faculty Column

## List of Webinars and workshops attended by each faculty

Faculty Name	Webinars / Workshops Attended
Dr. S. Kumarappa	20
Dr. K. Sadhashivappa	10
Dr.G. Manavendra	4
Dr. Thippeswamy Ekbote	14
Dr.K C Devendrappa	20
Dr.A.G.Shankarmurthy	3
Umesh D. E.	30
B.S.Umesh	1
M Krishna Murthy	4
S J Prashanth	4
T N Vijay Kumar	4
Dr.Sharan A S	10
Ashoka.E	4
Mohan T R	4
Basavaraj.B	4
Hemanna K B	4
A. B. Vinayak Patil	30
Anand K J	4
Sushma Patil	4
Pradeep.N.R	4
Ravikumar.H.N	4
Manjunath G M	4
Santhosh M	4
Sharan Mudda	4

## Various Meetings Conducted



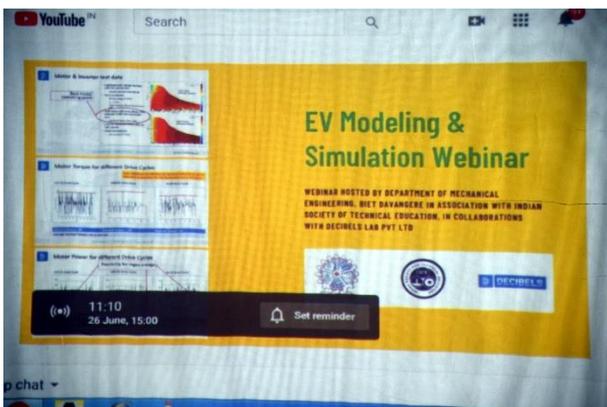
Mech NBA advisory meeting held on 29<sup>th</sup> Feb 2020



Virtual lab on 20<sup>th</sup> Oct 2020



Mech NBA Audit Meeting held on 23<sup>rd</sup> Nov 2020



A Webinar on “EV Modeling & Simulation”, Hosted by Department of Mechanical Engineering in Association with Indian Society of Technical Education, in Association with Decibel Labs Pvt. Ltd., was held on 26<sup>th</sup> June 2020.

## Student Projects funded by KSCST, Bangalore during 2020

Title of the project	References
Design And Fabrication of Laser Induced Graphene Setup	KSCST Sponsored (Ref No. 43S_BE_1446)
lot Based Hydroponics System for Agricultural Plants	KSCST Sponsored (Ref No. 43S_BE_1213)
Jet Fuel Production from Waste Plastics Via Catalytic Pyrolysis with Activated Carbons	KSCST Sponsored (Ref No. 43S_BE_1452)
Synthesis And Characterization of Silver Nano-Particles for Their Anti- Bacterial Anti-Inflammatory and Anti-Oxidant Activities.	KSCST Sponsored (Ref No. 43S_BE_1447)
Development Of Hybrid Composite by Using Natural Fibers and Waste Plastic for Domestic Application	KSCST Sponsored (Ref No. 43S_BE_1444)

## Placement Details of 2020 Batch

Students of 2020 batch got Placement opportunities in the following companies

Sl No	Company	No
1	HCL	14
2	Byjus	7
3	Tech Mahnidra	4
4	TCS	3
5	Accenture	2

HOD and Faculty of Mechanical Department congratulate the students who got placement in the above companies.

## Participation

Mr. Vishnu R A and Mr. Diwakar babu has participated in (ANVESHANA- 2020) Science and Engineering Fair (Regional) on 15th & 17th January 2020 organized by Agastya international foundation, Hubli-Dharwad obtained 2nd prize of Rs 12,000 is received by the team.

## 'ROYAL MECH FORUM' 2020

Students selected as office bearers of 'Royal Mech Forum' for 2019-2020

Sl No	Students Name	
1	Vinay Kumar VM	General Secretaries
2	Akshay Kumar Achar	
3	Divakarbabu G N	Joint Secretary
4	Akshay Kumar	Organizing Secretaries
6	Arjun G Bhoote	Cultural Secretary
7	Pramod N N	Sports Secretary



Three days' workshop on Design, fabrication and testing of Two-Wheeler Electric vehicle on 6th – 8th March 2020



Dr. G. C. Mohan Kumar, Professor, Department of Mechanical Engineering, NITK Suratkal, Dr. S. B. Prakash, Professor, University B.D.T.C.E., Davanagere, Mr. Jyothirlingappa, Managing partner, fine plastics, Penya Industrial estate, Bengaluru, were our esteemed guests invited to NBA Advisory meeting on 29/02/2020



Nagraj S. Malagi, center Director, TIME Davanagere, explained about different competitive exams and CAT exam for the final year students on 12/03/2020



Dr. Sabeel Ahmed, Professor and Head, Department of Mechanical Engineering, JNNCE Shivamogga and Dr. Amith Kumar S. J, Assistant Professor, Department of Mechanical Engineering, were the invited for NBA Auditing on 23/11/2020



Mech workshop 6<sup>th</sup> to 8<sup>th</sup> march 2020



Teacher's day on 05/09/2020

## Green Campus of BIET



*We should not give up  
and we should not allow  
the problem to defeat us*  
*A P J Abdul Kalam*



Department of Mechanical Engineering, Bapuji Institute of Engineering & Technology,  
Post Box No 325, Davangere -577004  
Karnataka, India.

Email: [drskumarappa@gmail.com](mailto:drskumarappa@gmail.com), Mob: 931000364

