

# Turbines

Newsletter  
Volume 3

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SECAB. I. E. T, MECHANICAL ENGINEERING  
DEPARTMENT, BAGALKOT ROAD,  
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"If the mountain does not come to Mohammed, Mohammed must go to the mountain. If the poor cannot come to education, education must reach them at the plough, in the factory, everywhere."

## From HOD'S Desk

It is my pleasure to welcome you to the department of mechanical engineering at the SECAB institute of engineering and technology Vijaypur. Mechanical engineering has been thought of traditionally as a professional discipline and the mechanical engineers of today are multidisciplinary, with knowledge from other branches of engineering.

The academic programmes of the department reflect not only the core areas of mechanical engineer but also the research specialization of the faculty. All the faculties are working in close co-operation while retaining individual identities. We provide our students with a solid engineering education that focuses on creativity, innovation, strong ethical responsibility and place equal emphasis on developing strong leadership qualities in our students.

As far as the faculties of the department is concerned, I am very happy to inform you that, we have great team of well qualified, dedicated, devoted, young, energetic and dynamic faculty members who are very brilliant in handling the challenging subjects in a very easy and graspable way by applying a various new teaching methods and intelligible demonstrations during the course of work. Further, Faculty pay dedicated attention to vigorous research and students' projects engendering in them untiring efforts, indomitable will, immense patience and soft skills as desired by industry.



### Vision:

Develop professionally competent Mechanical Engineers to cater the needs of society.

### Mission:

We, at Mechanical Engineering Department are committed to achieve our vision by

- ✓ Imparting Mechanical Engineering knowledge through outcome based education.
- ✓ By inculcating skills to attain excellence.
- ✓ Instilling students to become creative and innovative through research activities.
- ✓ Involve all stakeholders for development of department.

### Program Specific Outcomes (PSOs)

PSO 1: Identify, Formulate and Analyze Complex Engineering problems in Thermal Engineering and Design of Machines.

PSO 2: Develop and implement new ideas on product design and development with the help of modern CAD/CAM tools, while ensuring best manufacturing practices.



*Syed Sameer Hussain*  
*Research Scholar*

## **“I BELIEVE”**

- ✓ **I believe** that all life is connected.
- ✓ **I believe** that human consciousness is not confined to the physical being.
- ✓ **I believe** that beauty is life displaying the essence of its true being.
- ✓ **I believe** love is the act that tries to bring beauty into being.
- ✓ **I believe** that love is the glue and the bridge.
- ✓ **I believe** that the real heroes in life are the battlers and the givers, and those that are both are extra special.
- ✓ **I believe** in the worth of little things - in smiles, in hugs, in laughs, in well done, you're good, thanks.
- ✓ **I believe** in facing each day anew and leaving behind the troubles and mistakes of yesterday.
- ✓ **I believe** that one of the best things I can do for others is to show them I believe in them.
- ✓ **I believe** all women are treasures.
- ✓ **I believe** in helping people up.
- ✓ **I believe** that the worth of my life will depend on how I have loved and laughed, cared and shared - and not on the length of my years or the balance in my account.
- ✓ **I believe** that no matter what my circumstances, I can succeed; for success is how I face life.
- ✓ **I believe** in balance and harmony - that at some time during the day it is important to rest and be still and enjoy the moment.
- ✓ **I believe** everyone is somebody and somebody is everyone.
- ✓ **I believe** that the whole is much greater than the sum of the parts, any researchers, engineers and environmentalists are expressing deep concerns about changes in the overall



*Altaf Hussain Bagwan*

*Research Scholar*

**Electric vehicles are not just the wave of the future, they are saving lives today.**

The largest source of climate pollution in the India is Transportation. To solve the climate crisis, we need to make the vehicles on our roads as clean as possible. We have only a decade left to change the way we use energy to avoid the worst impacts of climate change.

Emissions from cars and trucks are not only bad for our planet, they're bad for our health. Air pollutants from gasoline- and diesel-powered vehicles cause asthma, bronchitis, cancer, and premature death.

The long-term health impacts of localized air pollution last a lifetime.





- 1) Syed Abbas Ali, Shirajahammad Hunagund, **Syed Sameer Hussain**, Altaf Hussain Bagwan, “The effect of nanoparticles dispersed in waste cooking oil (WCO) biodiesel on thermal performance characteristics of VCR engine” *Materials Today: Proceedings*, 12 July 2020.  
<https://doi.org/10.1016/j.matpr.2020.07.214>.
- 2) Syed Abbas Ali, Shirajahmad, **Syed Sameer Hussain**, Altaf Hussain Bagwan, “Neural network approach of estimating CI engine performance and emission parameters from WCO based biodiesel”, *Materials Today: Proceedings*, 12 July 2020.  
<https://doi.org/10.1016/j.matpr.2020.07.223>.
- 3) Deepak Kumar T., **Syed Sameer Hussain**, D.K. Ramesha, “Effect of a zinc oxide nanoparticle fuel additive on the performance and emission characteristics of a CI engine fuelled with cotton seed biodiesel blends” *Materials Today: Proceedings*, 13 February 2020  
<https://doi.org/10.1016/j.matpr.2020.02.509>.



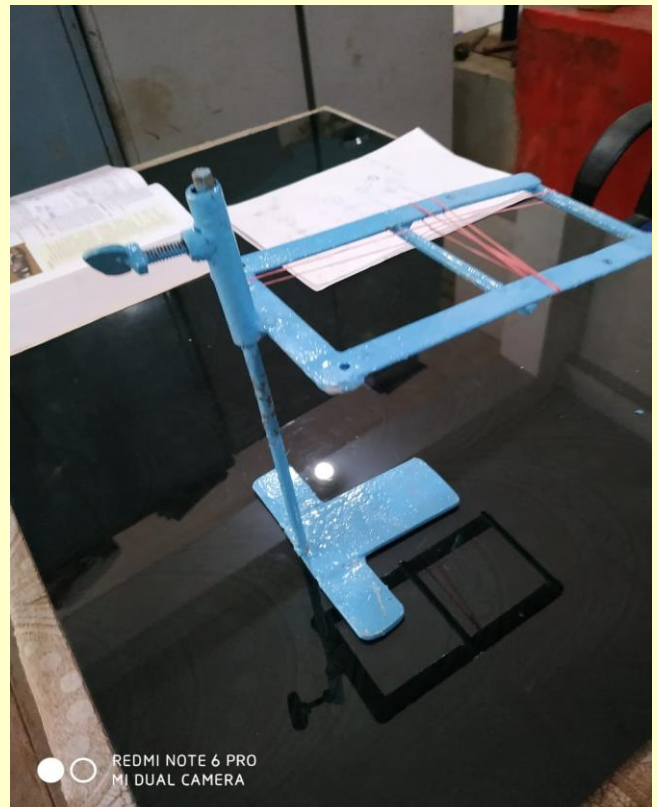


*During the Pandemic time, department of mechanical engineering designed and fabricated low cost hand sanitizer stands and distributed to the entire SECAB association.*





*During the Pandemic, department of mechanical engineering designed and fabricated low cost mobile stand to help the teachers for conducting online classes.*







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