

MECH VAARTHA

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**DEPARTMENT OF
MECHANICAL ENGINEERING**

Bapatla Engineering College, Bapatla
522102, Andhra Pradesh, India.

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Bapatla Engineering College::Bapatla

(AUTONOMOUS)

Department of Mechanical Engineering

Vision of the Department

"To become a centre of Excellence in producing the graduates as professional Mechanical Engineers with a high-quality education, innovative and entrepreneurial skills to secure the society and industry needs".

Mission of the Department

- *To impart high-quality education in curriculum and to build the students in their capacity and enhancing skills to make them globally competitive Mechanical Engineers.*
- *To prepare the students by providing exceptional academic environment, leadership, ethical guidelines and lifelong learning needed for a long professional career.*
- *To enhance the overall academic performance of the students gradually and thereby increasing their placement potential.*
- *To build the institute-industry interaction by providing the internship programs*

Faculty Achievements:

1. Sri. A.Praveen Assistant Professor of Mechanical Engineering Department had published a paper titled “A Comparison of Coated and Uncoated Diesel Engine Performance and Emission Characteristics Powered by Chlorella Vulgaris Biodiesel Blend with an Assistance of Alumina Nano Additive” in SAE International journal.
2. Sri. A.Praveen Assistant Professor of Mechanical Engineering Department had published a paper titled “Comparative assessment of MWCNTs and alumina nanoparticles dispersion in biodiesel blend on the engine characteristics of an unmodified DI diesel engine” in Materials Today: Proceedings journal.
3. Dr. T. Nancharaiah, Professor & HOD of Mechanical Engineering Department had published a paper titled “Flapwise Vibration of Functionally Graded Rotating Tapered Beam with Tipmass” in Sigma Journal of Engineering and Natural Sciences with Vol 40 Issue 3, pp 640-648.
4. Dr. Ch. Lakshmi Srinivas Professor of Mechanical Engineering Department had published a paper titled “Estimation of Effect of Cold Forging Deformational Behavior on Al-2024 Alloy Reinforced with Fly-Ash” in Advances in Science and Technology with Vol 120, pp 3-14.
5. Dr. Ch. Lakshmi Srinivas Professor of Mechanical Engineering Department had published a paper titled “Investigations on Wear and Friction Characteristics of AA-2024/MOS2/Al2O3 HMMCs” in Advances in Science and Technology with Vol 120, pp 41-50.
6. Dr. Ch. Lakshmi Srinivas Professor of Mechanical Engineering Department had published a paper titled “WEDM Parametric Study on Machining Responses of AA-6082/MoS2/Al2O3 HMMCs” in Advances in Science and Technology with Vol 120, pp 117-124.
7. Dr. D. Sameer Kumar, Associate Professor of Mechanical Engineering Department had published a paper titled “Micro Structural and Hardness Study of Al 6065 and CaSiO3 Composite with Stir Casting Route” in Advances in Science and Technology with Vol 120, pp 75-79.
8. Dr. D. Sameer Kumar, Associate Professor of Mechanical Engineering Department had published a paper titled “Particulate Based AZ91 Magnesium Hybrid Composites – A Short Review” in Advances in Science and Technology with Vol 120, pp 51-59.
9. Dr. D. Sameer Kumar, Associate Professor of Mechanical Engineering Department had published a paper titled “Flapwise vibration of functionally graded rotating tapered beam with tipmass” in in Sigma Journal of Engineering and Natural Sciences with Vol 40 Issue 3, pp 640-648.
10. Dr. T. Nancharaiah, Professor & HOD of Mechanical Engineering Department had published a paper titled “Experimental optimization on mechanical properties of 18Ni-300 maraging steel produced by direct metal laser sintering” in Engineering Research Express with Vol 5, Issue 1.
11. Sri. A.Praveen Assistant Professor of Mechanical Engineering Department had published a paper titled “Optimization of Operational Parameters on Engine

Performance and Emissions of a Diesel Engine Powered with Mimosops Elengi Methyl Ester with Doped TiO₂ Nanoparticle with Varying Injection Pressure” in SAE Technical Paper.

Workshops/FDP/STTP/Conferences attended by the Faculty

S. No	Name of the Event	Title	Faculty Name	Organizers
1	Two Days Online Faculty Development Programme on "Additive Manufacturing for Environmental Sustainability"	FDP	Dr. B. IFTEKHAR HUSSAIN	Sri Krishna College of Engineering and Technology, Coimbatore.
2	One Week Faculty Development Program' on "Advanced Technologies for Emerging Research in Mechanical Engineering"	FDP	Dr. B. IFTEKHAR HUSSAIN	Annamacharya Institute Technology & Sciences, Rajampet-516126, A.P.
	Innovations in Mechanical Engineering	FDP	P.Umamaheswarrao	Vasireddy Venkatadri Institute of Technology, Nambur.
4	Communication Skills for Research Paper Writing and Professional Practices	FDP	P.Umamaheswarrao	GMR Institute of Technology, Rajam
5	HYBRID ELECTRIC VEHICLES	FDP	P.Umamaheswarrao	GMR Institute of Technology, Rajam and Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada
6	Design of Experiments (DOE) Taguchi Method	Workshop	P.Umamaheswarrao	VIT, Vellore
7	Smart Manufacturing & Industry 4.0	Workshop	P.Umamaheswarrao	Indian Institute of Technology (BHU) Varanasi
8	Futuristic Research in Mechanical Engineering	FDP	P.Umamaheswarrao	SRM Institute of Science and Technology, Ramapuram Campus, Chennai

9	3D Printing Technology	Workshop	Dr. T Nancharaiah	IIT, Chennai
10	One day national webinar on "Introduction to Machine Learning and deep Learning Techniques"	Webinar	Dr. B. IFTEKHAR HUSSAIN	Jnana Jyothi Degree College, Bengaluru City University, Bengaluru-560064
11	2nd International Conference on Mechanical Engineering & Emerging Technologies (ICMEET-2023)	Conference, REVIEWER	Dr. B. IFTEKHAR HUSSAIN	Bapatla Engineering College, Bapatla-522102, A.P, INDIA.
12	2nd International Conference on Mechanical Engineering and Emerging Technologies [MEET 2023]	Conference, Resource person / Judge / Session Chair ..etc	Dr. B. IFTEKHAR HUSSAIN	Bapatla Engineering College, Bapatla-522102, A.P, INDIA.
13	National Virtual Seminar session on "Value Engineering and Design Thinking for Product and Process"	Seminar	Dr. B. IFTEKHAR HUSSAIN	Vidya Jyothi Institute of Technology, Hyderabad.
14	3rd International Virtual Conference on Recent Trends in Clean Technologies for Sustainable Environment,	Conference	Dr. ANCHUPOGU PRAVEEN	Sri Sivasubramaniya Nadar College of Engineering, Chennai, India
15	INTERNATIONAL CONFERENCE ON SUSTAINABLE TECHNOLOGIES & ADVANCES IN AUTOMATION, AEROSPACE & ROBOTICS	Reviewer	P.Umamaheswarrao	VIT Bhopal University.
16	National Virtual Seminar session on "Industry-Academia Interaction, A fresh perspective"	Seminar	Dr. B. IFTEKHAR HUSSAIN	Vidya Jyothi Institute of Technology, Hyderabad.

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