



ಬಿ.ಎಂ.ಎಸ್. ತಾಂತ್ರಿಕ ಮತ್ತು ವ್ಯವಸ್ಥಾಪನಾ ಮಹಾವಿದ್ಯಾಲಯ
(ವಿ.ಟಿ.ಯು. ಅಡಿಯಲ್ಲಿನ ಸ್ವಾಯತ್ತ ಸಂಸ್ಥೆ)

BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT
(Autonomous Under VTU)

Department of Mechanical Engineering

MECHINFO



Biannual Department News Letter

July -2024 to Jan 2025

Volume 15 Issue-1

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Head of the Department



Prof. Nithya Poornima S
Editor
Assistant Professor



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VI SEMESTER
Student Coordinator



Miss. Mithila Rajesh
IV SEMESTER
Student Coordinator





Vision of the Institute

To emerge as one of the finest technical institutions of higher learning to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.



Vision of the Department

To establish a hub of excellence in diverse fields of mechanical engineering for research and innovation to meet the industrial and societal challenges.



Mission of the Institute

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry - institution interface.



Mission of the Department

- Impart quality education in Mechanical Engineering and allied areas through teaching learning process and state of the art infrastructure.
- Provide a conducive environment to excel in research and Innovation for sustainable solutions through Industrial collaboration, co-curricular and extracurricular activities.

Program Educational Objectives (PEOs)

Graduates of the program will:

PEO-1: Be successful professionals in the field of Mechanical Engineering and allied areas.

PEO-2: Exhibit skills to work effectively and ethically in multiple domains of engineering as part of team.

PEO-3: Excel in higher studies, research and adapt in a world of constantly developing technology.



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HODs Desk



The Mechanical Engineering Department has achieved NBA accreditation, underscoring its commitment to high academic standards. The department is supported by a strong faculty, all holding doctoral degrees, and boasts state-of-the-art research laboratories equipped with advanced tools such as 3D printers, CNC machines, and material testing equipment.

Key Highlights:

- **Academic Excellence:** The faculty's dedication to providing quality education helps ensure a robust academic experience for students.
- **Research Focus:** Faculty members are engaged in research in cutting-edge areas, including materials, vibrations, smart materials, alternative fuels, and solar energy.
- **Advanced Facilities:** The department has established a Centre of Excellence in Automotive Engineering, along with strong industry partnerships through MOUs, which facilitate research collaborations and industrial internships.
- **Holistic Development:** The combination of academic rigor, research opportunities, and industry exposure is designed to enhance students' learning and promote their overall development.

These initiatives make the department a hub of learning and innovation, positioning students for success in both academic and professional spheres.



Faculty – Department of Mechanical



Dr. Sanjay HA

Principal & Professor

Dr. Madhu M C

Head of the Department

Specialization : Thermal
Engineering and Renewable



Dr. K.M Sathish Kumar

Professor & Dean Academics

Specialization : Computer Integrated and



Dr. O. Gurumurthy

Assistant Professor

Specialization : Manufacturing Engineering



Mr. T.N. Praveen Kumar

Associate Professor

Specialization : BE in Mechanical





Mr.K.Chandra Sekhara Reddy

Assistant Professor

Specialization : Industrial Engineering



Dr.G.L Anantha Krishna

Assistant Professor

Specialization: Design Engineering



Dr.Shripad Diwakar

Assistant Professor

Specialization : Thermal Science &



Mrs.Nithya Poornima

Assistant Professor

Specialization : Computer Integrated and Manufacturing(CIM)



Mr.Sriganesh T G

Assistant Professor

Specialization : Computer Integrated and Manufacturing(CIM)



Mr.Sundaresh.S

Assistant Professor

Specialization : Product Design and Manufacturing



Dr.KeerthiKumar.N

Assistant Professor

Specialization : Thermal Engineering, Renewable energy



Mr.Kiran M D

Assistant Professor

Specialization : Machine Design





Dr. Y.J. Jagadeesh

Assistant Professor

Specialization : Thermal Engineering



Dr. G. Avinash

Assistant Professor

Specialization : Thermal sciences –
Thermodynamics & Combustion



Dr. Nagamadhu.M

Assistant Professor

Specialization : Machine Design



Dr. RavichandraK. R

Assistant Professor

Specialization : Manufacturing Engineer



Dr. Chethan D

Assistant Professor

Specialization : Machine Design



TECHNICAL STAFF – DEPARTMENT OF MECHANICAL ENGINEERING



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Mechanic



Mr.Ashok.G.C

Mechanic

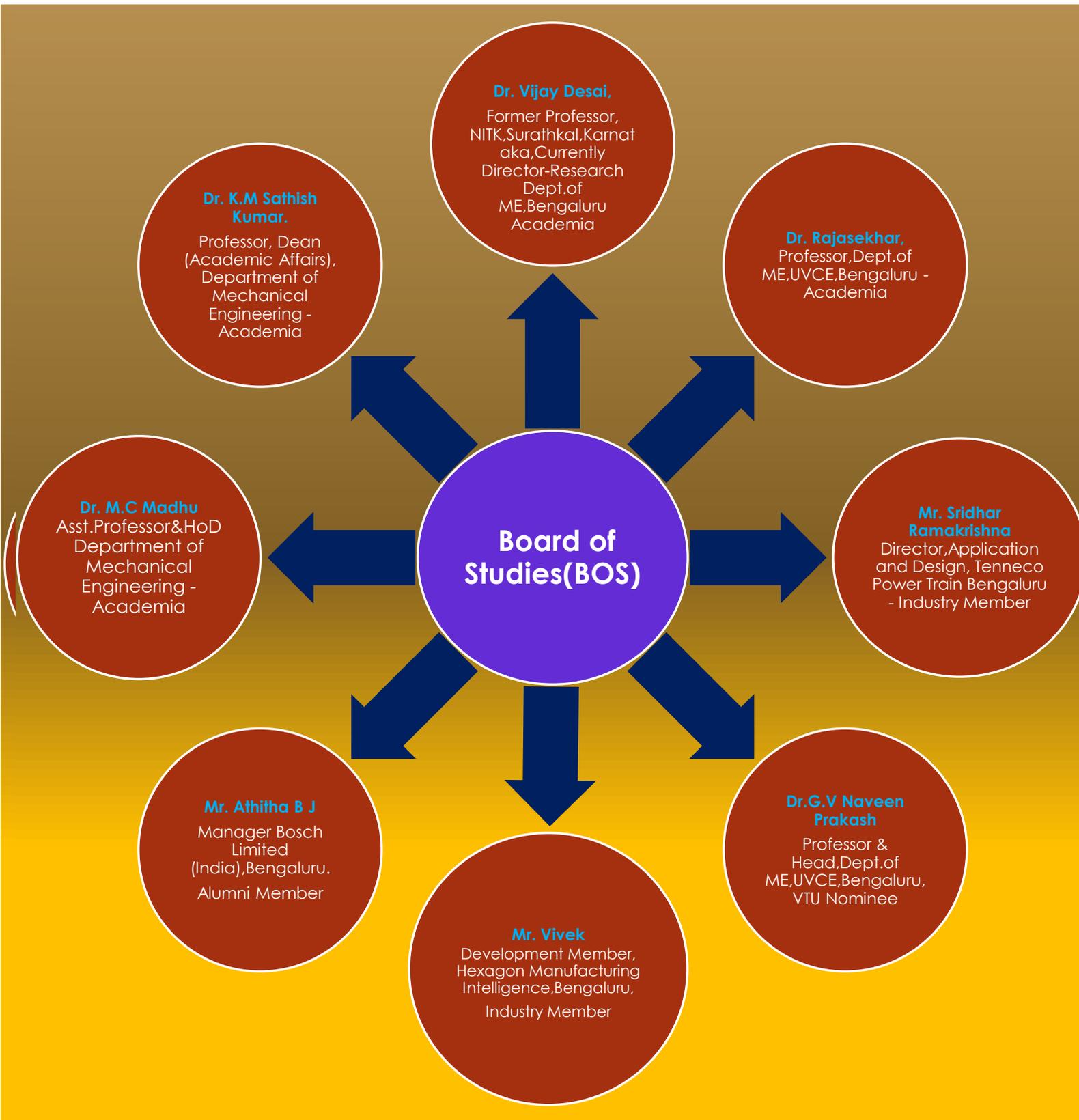


Mr.Srinivasa.K.A

Mechanic



BOARD OF STUDIES (BOS)



Journal Publication

Prof S. Nithya Poornima, Assistant Professor, Dept of Mechanical Engineering published a paper titled "Exploring Nano-Graphene in Bio-Lubricants: Innovative Approaches to Reduce Friction and Wear Engineering Systems" in Letters in High Energy Physics ISSN: 2632-2714 Volume 2024 Q2 (2024), H index 11, SJR 0.41,

Dr Kiran, M.D., Assistant Professor, Dept of Mechanical Engineering published a paper titled Tribological Characterization of Nano-Al₂O₃-Filled Nickel-Coated Short Carbon Fiber-Reinforced Epoxy Composites. In: Smart Materials and Manufacturing Technologies for Sustainable Development. SME 2023. Advances in Science, Technology & Innovation. Springer, Cham. https://doi.org/10.1007/978-3-031-63909-8_39

Prof S. Nithya Poornima, Assistant Professor, Dept of Mechanical Engineering published a paper titled "Rheological Insights and Optimization of Bio Nano Lubricants in Tribological Systems" in Nanotechnology Perceptions 20 No. S12 (2024) 262-27 ISSN 1660-6795 www.nano-ntp.com Q4 Journal (2024), H index 10, SJR 0.11,

Dr Chethan D, Assistant Professor, Dept of Mechanical Engineering published a paper titled "Optimizing Dental Composites: Synergistic Effects of Calcite-Zincate Nanoparticles in PMMA Resin for Enhanced Mechanical Performance" in Journal of Inst. Eng. India Ser. D, ISSN: 2250-2130 , October 2024 Q2 (2024), H index 19, SJR 0.263, <https://doi.org/10.1007/s40033-024-00830-5>

Sundaresh S, Sriganesh T G and K Chandrasekhara Reddy Assistant Professor, Dept of Mechanical Engineering published a paper titled "Design and Static stress analysis of trunk Piston of detroit diesel engine" in GIS ScienceJournal Vol 11 Issue 12 December2024

K Chandrasekhara Reddy, Sundaresh S and Sriganesh T G Assistant Professor, Dept of Mechanical Engineering published a paper titled "Design and analysis of E- Bicycle Wheel converted from normal bicycle" in GIS ScienceJournal Vol 11 Issue 12 December2024

Sriganesh T G, K Chandrasekhara Reddy, and Sundaresh S Assistant Professor, Dept of Mechanical Engineering published a paper titled "Fabrication of footstep power generation using spring mass and piezoelectric material" in GIScience Journal Vol 11 Issue 12 December2024

Prof S. Nithya Poornima, Assistant Professor, Dept of Mechanical Engineering published a paper titled "Evaluation and Optimization of Process Parameters of Tig Welding" in Tuijin Jishu/Journal of Propulsion Technology Q3 Journal ISSN: 1001-4055Vol. 45 No. 3(2024), H index 26, SJR 0.35,



Prof S. Nithya Poornima, Assistant Professor, Dept of Mechanical Engineering published a paper titled Tribological Properties of Bio-Nano Lubricants: A Study on Friction, Wear, and Lubrication Efficiency in Q2 journal- Letters in High Energy Physics ISSN: 2632-2714 Volume 2024 DOI: <https://doi.org/10.31526/lhep.2024>

Faculty Development Program

Dr. Shripad Diwakar, Assistant Professor, Department of Mechanical Engineering, BMS Institute of Technology and Management has attended One week Faculty Development Program(FDP) on " Next Gen. Cooling Solutions: Emerging Trends and Future Directions" Organized by Department of Mechanical Engineering, Ramaiah Institute of Technology, Bengaluru-560 054 conducted from 5th August to 10th August 2024.

Alumni Talk

K.Chandra Sekhara Reddy, Assistant Professor, organized an alumni talk by Mr HEMANTH KUMAR A(1BY14 alumus) titled " Sustainable Energy and circular economy " for 5th semester ME students on 19th December 2024.



Alumni Talk



Industrial Visit:

On 11th December 2024, the Bureau of Indian Standards (BIS) sponsored an industrial visit to M/s Jindal Aluminium Ltd, Dabaspeta, for III semester Mechanical Engineering students. Students had the opportunity to observe the manufacturing of aluminium foils and sheets using a variety of metal forming techniques, including extrusion and rolling. Around 30 students benefited from this visit. Two faculty members; Dr.O Gurumurthy and Dr.Kiran MD, Assistant Professor(s) and one instructor Mr. Srinivasa accompanied the team.



Photograph: Industrial visit to Jindal Aluminium Ltd.



Book Publication:

Dr. G L Anantha Krishna Associate Professor, Dept of Mechanical Engineering published a text book titled " HUMAN RESOURCE MANAGEMENT".ISBN: 978-93-6426-568-3, December 2024 published by Crown Publishing Head Office: 3rd Floor, B.incube, Bilaspur,Chhattisgarh 495006

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