



**BGS INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING**

<b>Research and Development</b>		
Number of Quality Publications in Referred /SCI Journals, Citations, Books/Book Chapters etc.		
SL	Name of the Faculty	Journals
1	Dr.Manjunath S H	<ol style="list-style-type: none"><li>1. Numerical evaluation of thermos hydraulic performance index of double pipe heat exchanger using double sided louvered winglet pipe</li><li>2. Experimental investigation of turbulent flow behavior in an air double pipe heat exchanger using novel para winglet tape</li><li>3. Use of empirical mode decomposition and K-nearest neighbor classifier for rolling element bearing fault diagnosis</li><li>4. Mechanical behavior of CNT reinforced PETG based nanocomposites developed by fused filament fabrication</li><li>5. Biogas from biodegradable kitchen waste</li><li>6. Characterization of aluminium alloy LM6 with B<sub>4</sub>C and graphite reinforced hybrid metal matrix composites</li><li>7. Numerical analysis of turbulent heat exchanger tube using novel para winglet tape</li><li>8. Enhancing Mechanical Properties of Aluminium Alloy 7075 Using Nano Titanium Dioxide Reinforcement</li><li>9. 3 body abrasive behaviour of AL6061-WC metal matrix composite</li><li>10. Metal halide perovskite based photo catalysts for organic pollutant degradation advances, challenges and future directions</li></ol>
2	Dr.Girish K B	<ol style="list-style-type: none"><li>1. Experimental investigation of turbulent flow behavior in an air to double pipe heat exchanger using novel para winglet tape</li><li>2. Enhanced photocatalytic activity and stability of 2D Cs<sub>3</sub>Bi<sub>2</sub> Perovskite Nano sheets synthesized via modified antisolvent method</li><li>3. Numerical evaluation of thermos hydraulic performance index of double pipe heat exchanger using double sided louvered winglet pipe</li><li>4. Numerical modelling and experimental validation of novel para winglet tape for heat transfer enhancement</li><li>5. Mechanical behavior of CNT reinforced PETG based nanocomposites developed by fused filament fabrication</li><li>6. Production and characterization of Nano zirconium reinforced A3 Aluminium alloy metal matrix composites</li><li>7. Experimental Investigation On Zirconia Reinforced Aluminium 60 Matrix Composites</li><li>8. Study on mechanical properties of Hbn REINFORCED AI-7075 Metal Matrix Composite</li><li>9. Enhancing Mechanical Properties of Aluminium Alloy 7075 Using Nano Titanium Dioxide Reinforcement</li><li>10. 3 body abrasive behaviour of AL6061-WC metal matrix composite</li><li>11. Characterization of aluminium alloy LM6 with B<sub>4</sub>C and graphite reinforced hybrid metal matrix composites</li><li>12. Metal halide perovskite based photo catalysts for organic pollutant degradation advances, challenges and future directions</li></ol>



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3	Dr.RanganathaSwamy L	<ol style="list-style-type: none"><li>1. Effect of injection timing and duration on the performance of diesel engine fuelled with port injection of oxygenated fuels</li><li>2. Diesel engine performance fuelled with manifold injection of ethanol and water in diesel emulsion blends</li></ol>
4	Dr.Heamaraju	<ol style="list-style-type: none"><li>1. Experimental investigation of three body abrasive wear behavior of rice husk filled polylactic acid (PLA) composites</li><li>2. Diesel engine performance fuelled with manifold injection of ethanol and water in diesel emulsion blends.</li><li>3. Experimental analysis on the impact behaviour of graphite filled glass fibre reinforced epoxy composites subjected to sea water ageing and notch depth</li><li>4. Tribological behaviour of metal matrix composites</li><li>5. Tribological studies of structural steels –A comprehensive study</li></ol>
5	K S Sudeep Kumar	<ol style="list-style-type: none"><li>1. Effect of Nano material added biodiesel combustion on durability components of engine lubricating oil performance</li><li>2. A review on impact of biodiesel fuel on durability of CI engines</li></ol>
6	B.L. Keerthi	<ol style="list-style-type: none"><li>1. Diesel engine performance fuelled with manifold injection of ethanol and water in diesel emulsion blends</li></ol>
7	H.V Ramyarani	<ol style="list-style-type: none"><li>1. Effect of Nano material added biodiesel combustion on durability components of engine lubricating oil performance</li></ol>
8	T.C Santhoshkumar	<ol style="list-style-type: none"><li>1. Robotic boat</li><li>2. 2D photonic crystal cantilever resonator pressure sensor</li><li>3. Tribological studies of structural steels –A comprehensive study</li></ol>
9	Sharath N	<ol style="list-style-type: none"><li>1. Q-learning based reinforcement learning controller for concentration control of food preparation</li><li>2. Tribological studies of structural steels –A comprehensive study</li></ol>
10	Hemanth C	<ol style="list-style-type: none"><li>1. Q-learning based reinforcement learning controller for concentration control of food preparation</li></ol>
10	Naveen S S	<ol style="list-style-type: none"><li>1. Diesel engine performance fuelled with manifold injection of ethanol and water in diesel emulsion blends</li></ol>
11	Pradeep H	<ol style="list-style-type: none"><li>1. Smart Environmental Monitoring System with Adaptive Sensor Fusion for Internet of Things (Iot) Applications (PATENT)</li></ol>