



# **BMS** Institute of Technology and Management, Bengaluru

## Department of Mechanical Engineering

### **FACULTY PUBLICATIONS 2018-19**

#### **International Journals**

<b>Sl No</b>	<b>Name of Faculty</b>	<b>Title</b>	<b>Journal/ Conference</b>	<b>Index</b>
1	Dr. H K Govindaraju	Preparation and Mechanical Characterization of Al7075-Silicon Nitride MMC's	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 8, Issue 4, Aug 2018, 575-584	Scopus
2	Kiran M D	Modelling and Analysis of Off-Road Rally Vehicle using Adams Car	International Journal of Research and Scientific Innovation (IJRSI) Volume V, Issue IX, September 2018   ISSN 2321–2705	Google Scholar
3	Madhu M C	Performance Evaluation of Solar Tracking System with Reflectors	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 8, Special Issue 8, Oct 2018, 187-194	Scopus

4	Shripad Diwakar	Effect of Injector Opening Pressure on the Performance and Emission Characteristics of Direct Injection Diesel Engine with Methyl Esters of Calophyllum Inophyllum (Surahonne) oil	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 8, Special Issue 8, Oct 2018, 67-74	Scopus
5	S.NithyaPoornima	Moisture Sensors for Automatic Watering System for Indoor Garden	SSRG International Journal of Mechanical Engineering (SSRG - IJME) – Special Issue ICETST Nov 2018	Google Scholar
6	Dr. A V Suresh	Effect of MWCNTs on piezoelectric and ferroelectric properties of KNN composites	Materials Science & Engineering B 231 (2018) 40–56, Elsevier Publications	Scopus
7	G L Anantha Krishna	Finite Element Analysis of Tibia Bone	International Journal of Engineering Science and Computing, December 2018, Volume 8 Issue No.12	Google Scholar
8	Kiran M D Dr. H K Govindaraju	Evaluation of fracture toughness of epoxy-nickel coated carbon fiber composites with Al <sub>2</sub> O <sub>3</sub> nano filler	Advances in Polymer Composites: Mechanics, Characterization and Application, AIP Conf. Proc. 2057, 020002-1–020002-5;	Scopus, Web of Science
9	Dr. H K Govindaraju Kiran M D	Development of Wear Resistant Al-Si-Ce Metal Matrix Composites Using Gr as Reinforcement	International Journal of Engineering, Applied and Management Sciences Paradigms (IJEAM), Volume 54 Issue 1 April 2019, 126-131.	Google Scholar
10	K.Chandra Sekhara Reddy	Automatic bumper with smart braking system	International Journal of Engineering Science and Computing, June2019, Volume 9 Issue No.6	Google Scholar
11	Dr.K.M. Sathish Kumar	Modal Analysis for Optimized Placement of Piezoelectric Patches on a Composite Beam Structure	Materials Today, Volume 5, Issue 10, Part 1, 30 October 2018, ISSN 2214-7853, <a href="https://doi.org/10.1016/j.matpr.2018.06.511">https://doi.org/10.1016/j.matpr.2018.06.511</a> , PP.21135-21139, Elsevier Publication.	Scopus, Web of Science

12	Keerthi Kumar N	Effects of combustion chamber profile on direct injection diesel engine operated with SuOME	AIP Conference Proceedings, Volume-2128, Pages 050001-1 to 050001-13, July 2019, AIP Publishing.	Scopus, Web of Science
13	Dr. Nandini R	Kinetic Analysis of isothermal solid-state process for synthesized potassium sodium niobate piezoelectric ceramics.	Materials Today Proceedings, 5 (Part-1), 20939–20946, October 2018, Elsevier Publication.	Scopus, Web of Science
14	S.Nithya Poornima	Outcome Based Education - Need for the Hour	International Journal of advance Research Ideas and Innovations in Technology, Ref No-OAP/IJ/192/771, Volume 2, Issue 2 ISSN-2454-132X	Google Scholar
15	Dr. Sangmesh	Heat Transfer Enhancement in a high-Power LED using Heat Sink with Fluid Pockets	Journal of Scientific and Industrial Research. Vol. 77 October 2018	Google Scholar
16	Dr. Sangmesh	Mechanical and Wear behaviour of Al6061 reinforced with Graphite and TiC Hybrid MMC's,	Materials Research Innovations, <a href="https://doi.org/10.1080/14328917.2019.1628497">https://doi.org/10.1080/14328917.2019.1628497</a> .	Google Scholar
17	Dr. Sangmesh	Experimental Investigation on HSFP using MWCNT based Nanofluids for high power Light Emitting Diodes,	Journal of Mechanical Engineering and Sciences, Vol. 12 No. 3, (2018),3852-3865.	Google Scholar
18	Dr. Sangmesh	Performance studies on cryogenic treated carbide cutting tool for turning of AISI304 steel	Journal of Mechanical Engineering and Sciences, Vol. 12 No. 3, (2018),3927-3941	Google Scholar

19	Dr. Sangmesh	Thermal management of vehicle radiator by nanocellulose with one-dimensional analysis	AIP Conference Proceedings 2059, 020043 (2019); <a href="https://doi.org/10.1063/1.5085986">https://doi.org/10.1063/1.5085986</a>	Scopus, Web of Science
20	Dr. Sangmesh	Nanocellulose as heat transfer liquid in heat exchanger	AIP Conference Proceedings 2059, 020044 (2019); <a href="https://doi.org/10.1063/1.5085987">https://doi.org/10.1063/1.5085987</a>	Scopus, Web of Science
21	Dr. Sangmesh	Effect of Cryogenic treatment on Tool Wear, Chip Thickness of Uncoated Carbide Insert during Machining with AISI304 Stainless Steel	International Journal of Innovative Technology and Exploring Engineering, Volume-8, Issue-9, July 2019	Google Scholar
22	Dr. Shreya Banerjee	A Timoshenko like model for piezoelectric energy harvester with shear mode	Composite Structures, Elsevier, Volume 204, 15 November 2018, Pages 677-688. DOI: <a href="https://doi.org/10.1016/j.compstruct.2018.07.117">https://doi.org/10.1016/j.compstruct.2018.07.117</a>	Scopus
23	Dr. Shreya Banerjee	An electromechanically coupled intrinsic, mixed Variational formulation for geometrically nonlinear smart composite beams	Applied Mathematical Modelling, Elsevier, Volume 65, January 2019, Pages 549-565 DOI: <a href="https://doi.org/10.1016/j.apm.2018.08.023">https://doi.org/10.1016/j.apm.2018.08.023</a>	Scopus, Web of Science

## International Conferences

1	Kiran M D	Wear Characterization of Nickel coated Short carbon fiber reinforced aluminium Matrix Composites.	International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering, NMAMIT, Nitte. During 23 <sup>rd</sup> -24 <sup>th</sup> May 2019.
2	Dr. H K Govindaraju Kiran M D	Study on Wear Behaviour of Graphite Reinforced Al-Si-Ce Metal Matrix Composites: A Taguchi Approach	International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy.
3	Sriganesh T G	Experimental study of vertical axis wind turbine by maglev suspension- A new approach	International Conference on Materials and manufacturing Methods (MMM' 19) from 5th - 7th July 2019, NIT, Trichy
4	Dr. K M Sathish Kumar	Design & Development & Rough Terrain vehicle using Rocker-Bogie Mechanism	International conference on Recent Research emerging Trends in Materials and Mechanical engineering (ICRRETMME-2019) Held on 12 <sup>th</sup> & 13 <sup>th</sup> July ,2019
5	Dr.K.M. Sathish Kumar	Effect of Friction Stir Welding Parameters on Mechanical and Microstructural Properties of Al 6082 - Copper Butt Joints	International conference on Recent Research emerging Trends in Materials and Mechanical engineering (ICRRETMME-2019) Held on 12 <sup>th</sup> & 13 <sup>th</sup> July ,2019
6	Dr.K.M. Sathish Kumar	Analytical and Finite Element Solution of Tractor Brake Link to achieve Weight and cost Reduction	International Conference on Green Trends in Mechanical Engineering Sciences (GTMES 2018), Malnad College of Engineering.Hassan, 3rd October 2018
7	Dr.K.M. Sathish Kumar	Development of MATLAB codes to find the natural frequencies of a composite structure	International Conference on Green Trends in Mechanical Engineering Sciences (GTMES 2018), Malnad College of Engineering.Hassan, 3rd October 2018
8	Dr. Santosh Kumar	Experimental Quality and Strength Evaluation of Friction Stir Spot Welding of Aluminum Sheets Using Flat Tool with Miniature Profile.	International conference on advances in material research (ICAMR)-2019, RUAS, Bangalore.
9	Dr. Shreya Banerjee	Design and Fabrication of a Multifunctional Robot for Harvesting Areca nut	International Conference on Mechanical Power Transmission (ICMPT 2019) IIT, Madras during 11-13 July 2019.

10	Tejaswini.B.J, T.N.Praveen Kumar	Importance of Intellectual Property in Startups: A Review	International Conference on Global Entrepreneurship - Emerging Opportunities and Challenges at Bangalore University, Bengaluru, January 28-29, 2019
11	Keerthi Kumar N	Design and fabrication of thermo electric refrigerator	3rd International conference on recent research emerging trends in materials and mechanical engineering held on 12th and 13th July 2019 at REVA University, Bengaluru.
12	Praveen Kumar T N	Axial Crushing Behaviour of Filled Aluminium Square Tubes	International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering, NMAMIT, Nitte. During 23 <sup>rd</sup> -24 <sup>th</sup> May 2019.

<b>National Conference</b>			
1	Sriganesh T G	Mechanical Properties investigation of light metals series aluminium fly ash composites	National Conference on Emerging Trends in Mechanical Engineering 2019 held on 26th June 2019 at Ramaiah Institute of Technology
2	Madhu.M.C	Estimation of global solar radiation and optimal tilt angle of solar panels for Bangalore	National conference NCETME at Ramaiah Institute of Technology on 26th June 2019
3	Dr. Shreya Banerjee	Design and Analysis of a Shear Pin under Static Load	National Conference on Multidisciplinary Design, Analysis, and Optimization 22 <sup>rd</sup> - 23 <sup>rd</sup> March 2019, MSRUAS, Bengaluru