



# Malnad College of Engineering, Hassan

(An Autonomous Institute, Affiliated to V.T.U, Belagavi)

## Faculty Biodata

### GENERAL INFORMATION AND ACADEMIC BACKGROUND

#### PART-A

1.	Name(inBlockLetters)	PREM KUMAR B. G.
2.	Qualification	M.Tech
3.	Date of joining the service at MCE	21/08/2015
4.	Department	Mechanical Engineering
5.	CurrentDesignation &Experience in MCE	Assistant professor & 8 Years
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	
		8years
Research Experience (in Years)		
7.	a) Total Number of years	5
	b) Years spent in M. Phil. / Ph.D.	5
	c) Years of Guiding Ph.D. / M. Phil.	-
	d) Total No. of papers Published in i. International Journals ii. National Journals iii. Conference Proceedings	13 - -
	e) Total No. of Conferences/Seminar/Workshop Attended i. International ii. National iii. State Level	4 - -
8.	Awards /Prizes/ Honor's / Recognitions	-
9.	Fields of Specialization under the Subject / Discipline	Composite Materials, Biofuels

10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	20
-----	--	----

### **PART-B**

#### **1. List of Publications:**

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	High Temperature Tensile Behaviour of Ceramic-Hybridized Metal Matrix Composites for Above-Room-Temperature Applications	Silicon, 2023	
2.	Experimental and artificial neural network-based slurry erosion behaviour evaluation of cast iron.	International Journal on Interactive Design and Manufacturing (IJIDeM),2023	
3.	Wear behaviour of hybrid (boron carbide-graphite) aluminium matrix composites under high temperature.	Journal of Engineering and Applied Science 2023	
4.	Effects of tertiary ceramic additives on the micro hardness and wear characteristics of Al2618+ Si3N4-B4C-Gr hybrid composites for automotive applications.	Journal of Alloys and Metallurgical Systems 2023	
5.	Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine.	<i>International Journal of Energy and Water Resources</i> 2023	
6.	a critical review on nanoparticle filled adhesives for structural application”,	journal of mines, metals and fuels, Volume 70, Issue 10A, 84-89, 2022	
7.	Mechanical and wear behaviour of flyash reinforced epoxy composites."	<i>Journal of Mines, Metals and Fuels</i> (2021)	
8.	Mechanical and Tribological Wear Behavior of Epoxy Hybrid Composites'	materials today proceedings, Elsevier publications (scopus indexed), <u>Volume 5, Issue 2, Part 2</u> , 2018	
9.	Comparative Study of Performance of Four Stroke Two Wheeler Using Ethanol-Gasoline and Butanol-Gasoline Blends	International Journal of Engineering Research & Technology (IJERT), Vol. 4 Issue 03, March-2015	
10.	Taguchi approach for the dry sliding wear behavior of granite and fly ash filled glass epoxy composites'	International Journal of Advanced Technology in Engineering and Science, Volume No 03, Special Issue No. 01, March 2015	
11.	Comparative Study of Performance of Two Wheeler Using Ethanol-Gasoline Blends	International Journal of Science and Research, Volume 3 Issue 10, October 2014	
12.	Friction and Dry Sliding Wear Behavior of Granite - Fly Ash Filled Glass Epoxy Composites	International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 7, pp 14331-14338,July 2014	
13.	Taguchi Approach for Characterization of Three-Body Abrasive Wear Behavior of Granite Epoxy Composite with and Without SiC Filler	The International Journal Of Science & Technoledge, Vol 2 Issue 9, pp 86-91,September, 2014.	

2. **Responsibilities in the Department and Institute / University:** (DAC,DPC, BOS, BOE etc., Institutional Governance responsibilities like, Dean, Chief warden, Warden, HOD's, School/Centre Chairperson, IQAC Coordinator etc.)

Sl. No	Responsibilities
1.	<b>Co-Ordinator - SWAYAM/NPTEL</b>
2.	<b>Co-Ordinator - CONTINEO</b>
3.	<b>Co-Ordinator - IEM</b>
4.	Member - BOS
5.	Member - BOE
6.	Member – Anti-ragging Committee

3. **Details of Teaching Related Activities**

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
1.	2023-24	B.E	Control Engineering, Design of Machine Elements, Computer Aided Engineering Drawing
2.	2022-23	B. E	Control Engineering, Finite Element Method, Computer Aided Engineering Drawing, Introduction to mechanical Engineering, Theory of Machines
3.	2021-22	B.E	Control Engineering, Finite Element Method, Dynamics of Machines, Engineering Drawing

<b>Professional Development Activities</b>		
	Membership in profession related committees at state and national level a) At International: - b) At national level: 1 c) At state : -	1
	Participation in subject associations, conferences, seminars without paper presentation	-
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	8
	Membership/participation in State/Central Bodies/Committees on Education, Research and National Development	-
	Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television programmes	-
	Invited Expert Talks	-

### **PART-C**

#### **RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS**

##### **1. Published Papers in Journals**

<b>Sl. No.</b>	<b>Title</b>	<b>Journal with Vol. Year &amp; Page No.</b>	<b>ISSN / ISBN No.</b>	<b>Whether peer reviewed. Impact factor, if any</b>	<b>No. of Co-authors</b>	<b>Whether you are the main author or Guide / mentor</b>
1	High Temperature Tensile Behaviour of Ceramic-Hybridized Metal Matrix Composites for Above-Room-Temperature Applications	Silicon,2023		Yes	5	No
2	Experimental and artificial neural network-based slurry erosion behaviour evaluation of cast iron	International Journal on Interactive Design and Manufacturing (IJIDeM),2023		Yes	5	No
3	Wear behaviour of hybrid (boron carbide-graphite)	Journal of Engineering and		Yes	5	No

	aluminium matrix composites under high temperature.	Applied Science 2023				
4	Effects of tertiary ceramic additives on the micro hardness and wear characteristics of Al2618+ Si3N4-B4C-Gr hybrid composites for automotive applications.	Journal of Alloys and Metallurgical Systems 2023		Yes	5	No
5	Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine.	International Journal of Energy and Water Resources 2023		Yes	5	No
6	a critical review on nanoparticle filled adhesives for structural application”,	Journal of Mines, Metals and Fuels, Volume 70, Issue 10A, 84-89, 2022		Yes	2	No
7	Mechanical and wear behaviour of flyash reinforced epoxy composites."	Journal of Mines, Metals and Fuels (2021)		Yes	2	No
8	Mechanical and Tribological Wear Behavior of Epoxy Hybrid Composites’	materials today proceedings, Elsevier publications (scopus indexed), Volume 5, Issue 2, Part 2, 2018		Yes	5	No
9	Comparative Study of Performance of Four Stroke Two Wheeler Using Ethanol-Gasoline and Butanol-Gasoline Blends	International Journal of Engineering Research & Technology (IJERT), Vol. 4 Issue 03, March-2015		Yes	2	No
10	Taguchi approach for the dry sliding wear behavior of granite and fly ash filled glass epoxy composites’	International Journal of Advanced Technology in Engineering and Science, Volume No 03, Special Issue No. 01, March 2015		Yes	4	No
11	Comparative Study of Performance of Two Wheeler	International Journal of Science		Yes	1	No

	Using Ethanol-Gasoline Blends	and Research, Volume 3 Issue 10, October 2014				
12	Friction and Dry Sliding Wear Behavior of Granite - Fly Ash Filled Glass Epoxy Composites	International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 7, pp 14331-14338, July 2014		Yes	4	No
13	Taguchi Approach for Characterization of Three-Body Abrasive Wear Behavior of Granite Epoxy Composite with and Without SiC Filler	The International Journal Of Science & Technoledge, Vol 2 Issue 9, pp 86-91, September, 2014.		Yes	3	No

## 2. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes conducted.

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	Workshop on Geometric Dimensioning and tolerancing	Two day	Malnad college of Engineering
2.	Workshop on Yoga body and Mind management	Two day	Malnad college of Engineering
3.	Workshop on Outcome Based Education	Two day	Malnad college of Engineering

## 3. Papers presented in Conferences, Seminars, Workshops, Symposia

Sl. N o.	Title	Title of Conference/Seminar etc.	Dates of the Event	Organized by	Whether International/National/State/Regional/University/College Level
----------	-------	----------------------------------	--------------------	--------------	--

1	<b>Structural Optimisation Studies on Rear Pressure Bulkhead of Transport Aircraft</b>	International Conference on Computer Aided Engineering	19 <sup>th</sup> December 2013	IIT Madras	<b>International</b>
2	<b>Structural Optimization Studies on Rear Pressure Bulkhead of Transport Aircraft</b>	International Congress on Computational Mechanics and Simulation	10-12 December 2012	IIT Hyderabad,	<b>International</b>
3	<b>Studies on the Structural Response of a Typical Transport Aircraft Fuselage Pressure Bulkhead with Edge Supports</b>	HTC-2012	18th July, 2012	Altair india Pvt. Ltm	National