Malnad College of Engineering, Hassan



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

Faculty Biodata

GENERALINFORMATION AND ACADEMIC BACKGROUND

PART-A

1.	Name	Shambulingamurthy G.C
2.	Qualification	BE., M.Tech., (Ph.D.)
3.	Date of joining the service at MCE	12-01-2015
4.	Department	Mechanical Engineering
5.	CurrentDesignation & Experience in MCE	Assistant Professor (09 Years in MCE)
6.	Teaching Experience: P.G. (in Years)	
	U.G. (in Years) :	15
	Research Experience	(in Years)
7.	 a) Total Number of years b) Years spent in Ph.D. c) Years of Guiding Ph.D. / M. Phil. d) Total No. of papers Published in i. International Journals ii. National Journals iii. Conference Proceedings e) Total No. of Conferences/Seminar/Workshop Attended i. International ii. National iii. State Level 	02 Years Pursuing Nil Nill Nil 01 01 02 Nil Nil
8.	Awards /Prizes/ Honor's / Recognitions	-
9.	Fields of Specialization under the Subject / Discipline	Manufacturing Science, Automation & Management
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	06

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	Nill	Nill	Nill

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.	First year coordinator
2.	Department CIE coordinator
3.	Member CDC
4.	Member Anti-ragging Committee
5.	Coordinator MEA
6.	Member BOS
7.	Member BOE
8.	Faculty Advisor
9.	Mentor
10.	Lab coordinator

3. Details of TeachingRelated Activities

Sl. No.	(B. E/M.Tech)	Course Title		
1.	B.E.	Elements of Mechanical Engineering		
2.	B.E.	Computer Aided Engineering Drawing		
3.	B.E.	Basic thermodynamics		
4.	B.E.	Applied thermodynamics		
5.	B.E.	Power plant engineering		
6.	B.E.	Automotive Engineering		
7.	B.E.	Machine Drawing		
8.	B.E.	IC Engines		
9.	B.E.	Electrical vehicle technology		
10.	B.E.	Engineering thermodynamics		
11.	B.E.	Engineering Drawing		

12.	B.E.	Production Drawing	
13.	B.E.	Basic Workshop	
14.	B.E.	Machine Shop I/II	
15.	B.E.	Fluid Mechanics Laboratory	
16.	B.E.	Material Testing Laboratory	
17.	B.E.	Measurement and Metrology Laboratory	
18.	B.E.	Foundry and Forging Laboratory	
19.	B.E.	CAD CAM Laboratory	
20.	B.E.	Energy Conversion Laboratory	
21.	B.E.	CAM and CAEA Laboratory	
22.	B.E.	Design Laboratory	
23.	B.E.	HP Laboratory	
24.	B.E.	HT Laboratory	

Profes	ssional Development Activities	
1	Membership in profession related committees at state and national level	
1.	a) At Internationalb) At national level:	-
	c) At state :	
2.	Participation in subject associations, conferences, seminars without paper presentation	-
3.	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	02
4.	Membership/participation in State/Central Bodies/Committees on Education, Research and National Development	-
5.	Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television programmes	-
6.	Invited Expert Talks	-

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

1. Published Papers in Journals

Sl. No.	Title	Journal with Vol. Year & Page No.	ISSN / ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Co- authors	Whether you are the main author or Guide / mentor
1.	Review on Tribological and Mechanical Behavior in HVOF Thermal-sprayed Composite Coatings.	Journal of Bio- and Tribo- Corrosion. 2022 Mar;8(1):1-9.	https://doi.o rg/10.1007/ <u>s40735-</u> 022-00631- <u>x</u>	Q2 SJR 2022 0.42	02	Main Author
2.	Evaluation of High Temperature Dry Sliding Wear Behaviour of Thermal Sprayed and Microwave Fused WC12Co and CeO ₂ Modified WC12Co Composite Coatings.	Applied Science and Engineering Progress, Vol. 16, No. 1, 2023, 5846.	https://doi.o rg/10.1441 6/j.asep.20 22.03.007	Q2 SJR 2022 0.35	02	Main Author
3.	Microstructure and Wear Behavior of Microwave Treated WC-10Co- 4Cr Composite Coating on AISI 4140 Alloy Steel."	Materials Science and Engineering, vol. 1189, no. 1, p. 012012. IOP Publishing, 2021	<u>doi:10.1088</u> / <u>1757-</u> <u>899X/1189/</u> <u>1/012012</u>	-	04	Main Author
4.	Evaluation of dry sliding wear behavior of thermally sprayed and microwave post-processed TiO2 reinforced tungsten carbide composite coating.	Welding in the World. 2023 Nov 9:1-3	https://doi.o rg/10.1007/ <u>s40194-</u> 023-01617- 0	Q2 SJR 2022 0.49	03	Main Author
5.	Study on scratch behavior of Ni- Al2O3 coating composition on Al- 2219 substrate by electro deposited technique".	Materials Today: Proceedings. 2021 May 4	https://doi.o rg/10.1016/ j.matpr.202 1.04.033	Impact Factor: 31.04	04	Main Author
6.	Investigating the adhesion strength of electrodeposited Ni-Al2O3 nano composite on Al-2618 substrate by using the scratch test technique.	Materials Today: Proceedings. 2021 Dec 1	https://doi.o rg/10.1016/ j.matpr.202 1.11.336	Impact Factor: 31.04	04	Main Author
7.	Tribological Suitability of aluminium hybrid composite above atmospheric temperature.	Materials Science and Engineering, vol. 1189, no. 1, p.	<u>doi:10.1088</u> / <u>1757-</u> <u>899X/1189/</u>	Impact Factor: 31.04	03	Co Author

		012018. IOP Publishing, 2021	<u>1/012018.</u>			
8.	Evaluation of Mechanical Properties of Ceramic Reinforced Aluminium- 7029 Hybrid Composite.	Materials Science and Engineering, vol. 1189, no. 1, p. 012019. IOP Publishing, 2021	<u>doi:10.1088</u> / <u>1757-</u> <u>899X/1189/</u> <u>1/012019.</u>	Impact Factor: 31.04	03	Co Author
9.	Machinability Studies on Boron Carbide and Graphite Reinforced Al7029-Based Hybrid Composites.	In Materials, Design and Manufacturing for Sustainable Environment 2023 (pp. 511- 522).	https://doi.o rg/10.1007/ <u>978-981-</u> <u>19-3053-</u> <u>9_38</u> 978-981- 19-3053-9.	-	04	Co Author
10.	Comparative analysis of CoCrAlY coatings at high-temperature oxidation behavior using different reinforcement composition profiles.	Welding in the World. 2023 Mar;67(3):585- 92.	https://doi.o rg/10.1007/ <u>s40194-</u> 022-01405- 2 ISBN: 00432288	Q2 SJR 2022 0.49	04	Co Author
11.	Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine.	International Journal of Energy and Water Resources. 2023 Jan 24:1-7.	https://doi.o rg/10.1007/ s42108- 023-00234- 3.	-	05	Co Author
12.	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 May 31:100014.	https://doi.o rg/10.1016/ j.jalmes.20 23.100014	-	05	Co Author
13.	Mechanical characterization of B4C- Gr Al2618 based composites synthesized by stir casting method.	Applied Science and Engineering Progress. 2023 Aug 23;16(3):6579	https://doi.o rg/10.1441 6/j.asep.20 22.12.005	Q2 SJR 2022 0.35	04	Co Author
14.	Artificial neural networks for predicting mechanical properties of Al2219-B4C-Gr composites with multi reinforcements.	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of	https://doi.o rg/10.1177/ 095440622 31196038	Q2 SJR 2022	04	Co Author

		Mechanical Engineering Science. 2023:095440622 31196038		0.42		
15.	Wear behaviour of hybrid (boron carbide-graphite) aluminium matrix composites under high temperature.	Journal of Engineering and Applied Science. 2023 Dec;70(1):124	<u>https://doi.o</u> <u>rg/10.1186/</u> <u>s44147-</u> <u>023-00294-</u> <u>6.</u>	-	05	Co Author
16.	Predictive Analysis of Slurry Erosion Behaviour in Aluminium- Based Hybrid Metal Matrix Composites: Experimental and Machine Learning Approach.	Journal of Bio- and Tribo- Corrosion. 2023 Dec;9(4):70.	https://doi.o rg/10.1007/ <u>s40735-</u> 023-00793- <u>2</u>	Q2 SJR 2022 0.42	04	Co Author
17.	High Temperature Tensile Behaviour of Ceramic-Hybridized Metal Matrix Composites for Above-Room-Temperature Applications.	Silicon. 2023 Nov 10:1-2.	https://doi.o rg/10.1007/ <u>s12633-</u> 023-02746- <u>3</u>	Q2 SJR 2022 0.49	05	Co Author

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

Sl. No.	Title	Duration	Venue
1.			
2.			
3.			

Online Certification Courses (SWAYAM/NPTEL/MOOC's etc..)

Sl. No.	Title	Duration	Venue
1.			
2.			
3.			

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

Sl. No.	Title	Title of Conference/ Seminar etc.	Dates of the Event	Organized by	Whether International/ National/State/ Regional/Unive rsity/College Level
1.					
2.					
3.					