



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 (in Block Letters)	Dr. Ezhil Vannan S
2.	Qualification	B.E, M.E, Ph.D.
3.	Date of joining the service at MCE	25/05/2018
4.	Department	Mechanical Engineering
5.	Current Designation & Experience in MCE	Professor & Head; 06 years @MCE
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	06 22
Research Experience (in Years)		
7.	a) Total Number of years b) Years spent in M. Phil. / 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	 12 06 2016 21 03 10 65 22 08 03
8.	Awards /Prizes/ Honor's / Recognitions	Nil
9.	Fields of Specialization under the Subject / Discipline	Thermal Engineering/ Manufacturing Science & Engineering
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	10

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	"Investigation on the Influence of Basalt Short Fiber on Thermo-Physical Properties of Aluminium Metal Matrix Composites"	International Journal of Soft Computing and Engineering (IJSCE), Volume-3, Issue3, July 2013, 332-335.	ISSN: 2231-2307
2.	A New Method for Obtaining an Optimal Solution for Transportation Problems"	" IJEAT, Volume-2 Issue-5, June 30, 2013, pp. 369-371.	ISSN: 2249-8958
3.	"Development and Characterization of Copper-Coated Basalt Fiber Reinforced Aluminium Alloy Composites"	International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 8, August – 2013, 37-47.	ISSN: 2278-0181
4.	"Prediction of the Elastic Properties of Short Basalt Fiber Reinforced with Al7075 Alloy Metal Matrix Composites"	Journal of Minerals and Materials Characterization and Engineering (JMMCE), 2014, 2, 61-69.	ISSN Print: 2327-4076
5.	"Microstructure and Mechanical Properties of Cast Aluminium Alloy 7075/Basalt Dispersed Metal Matrix Composites	Journal of Minerals and Materials Characterization and Engineering (JMMCE),2014, 2, 182-193Online May 2014 in Sci Res.	193Online
6.	"Effect of Coating Parameters on Coating Morphology of Basalt Short Fiber for Reinforcement Preparation of Al/Basalt Metal Matrix Composites	International Journal of Electrochemical science, Vol.8, August – 2013, 10138 – 10148.	ISSN 1452-3981
7.	"Review of Al Metal Matrix Composite and Basalt Fiber as a New Reinforcement for MMC	Life Science Journal, Vol.7, 522-560	ISSN: 1097-8135
8.	Investigation on Damping Behaviour of Aluminium Alloy/Basalt Short Fiber Metal Matrix Composites	International Journal of Advanced Engineering Applications, Vol.7, Iss.2, pp.74-81 (2014)	
9.	"Tribological Behaviour of Basalt Fiber Reinforced Aluminium Alloy Journal Bearings"	International Journal of Advanced Engineering Applications, Vol.7, Iss.2, pp.82-90 (2014)	

10.	"Statistical Investigation on Effect of Electroless Coating Parameters on Coating Morphology of Short Basalt Fiber"	Jordon Journal of Mechanical and Industrial Engineering, Volume 8, Number 3, June. 2014, Pages 153- 160.	ISSN 1995- 6665
11.	"Dry Sliding Wear Behaviour of Basalt Short Fiber Reinforced Aluminium Metal Matrix Composites"	Journal of Applied mechanics & Engineering, June 2014.	
12.	"Corrosion Behaviour of Short Basalt Fiber Reinforced with Al7075 Metal Matrix Composites in Sodium chloride Alkaline Medium"	J. Chem. Eng. Chem. Res. Vol. 1, No. 1, 2014, pp. 1-5, Published: August 25, 2014	
13.	"Investigation on the Influence of Basalt Fiber on Thermal properties of Al7075/ Basalt Fiber Metal Matrix Composites"	Science direct, Elsevier Procedia Engineering 97 (2014) 432 – 438.	
14.	"Optimization of Coating Parameters on Coating Morphology of Basalt Short Fiber for Preparation of Al/Basalt Metal Matrix Composites Using Genetic Programming"	Jordon Journal of Mechanical and Industrial Engineering, Volume 9, Number 1, Feb. 2015 Pages 9-15.	ISSN 1995-6665
15.	"Corrosion Characteristics of Basalt Short Fiber Reinforced with Al-7075 Metal Matrix Composites"	Jordon Journal of Mechanical and Industrial Engineering Volume 9, Number 1 to be published in June 2015.	
16.	"Experimental Investigations on Electroless Deposition of Copper on Basalt Fibers"	Journal of Minerals and Materials Characterization and Engineering (JMMCE),2015,3, 289-297.	
17.	"Experimental Investigation of Conventional Heat Pipe using Different Working Fluids"	International Journal of Engineering Trends and Technology (IJETT), V38(7), 352-354 August 2016. www.ijettjournal.org. Published by seventh sense research group	ISSN: 22315381.
18.	"Corrosion Behaviour of Nickel Coated Short Carbon Fiber Reinforced Al Metal Matrix Composites"	International Journal of Theoretical and Applied Mechanics. Volume 12, Number 3 (2017) pp. 659-669.	ISSN 0973- 6085
19.	"Development of Aluminium-Nickel Coated Short Carbon Fiber Metal Matrix Composites"	January 2018, Materials today:	

		proceedings 5(5):11336-11345	
20.	“Dry sliding wear behaviour of short Carbon fibre reinforced aluminium matrix composites”	Journal of Critical Reviews, VOL 7, ISSUE 15, 2020, PP:1110-1116.	ISSN- 2394-5125
21.	Review of Nanotechnology Potential in Agricultural Applications	Journal of Nanoscience and Technology, Volume 9, Issue 1,2023 Pages 972-975	

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.	HOD, Department of Mechanical Engineering, (From 01.03.2023 till date)
2.	In-charge HOD, Department of Automobile Engineering (From 01.04.2023 till date)
3.	Institute NBA chief Coordinator (From 02.02.2023)
4.	Member of IQAC cell at Institute level
5.	Institute Nodal Officer for IUCEE.
6.	Chairman- BOS, Department of Mechanical Engineering, UG programme, Malnad College of Engineering, Hassan
7.	Chairman- BOS, Department of Mechanical Engineering, PG programme (IAR), Malnad College of Engineering, Hassan
8.	Chairman- BOS, Department of Mechanical Engineering, PG programme (AI & DS), Malnad College of Engineering, Hassan
9.	Chairman- IAB, Department of Mechanical Engineering, Malnad College of Engineering, Hassan
10.	Chairman- DAC, Department of Mechanical Engineering, Malnad College of Engineering, Hassan
11.	Member of Academic Council of Autonomous Programme of Malnad College of Engineering, Hassan for a period of 02 years w.e.f 17th August 2020.
12.	Chairman, BOE, Department of Mechanical Engineering, Malnad College of Engineering, Hassan for a period of 02 years from April 2020. Extended for additional period of 02 years from April 2022
13.	Member- Industry Advisory Board (IAB), Department of Mechanical Engineering, Malnad College of Engineering, Hassan
14.	Member- Department Academic Committee (UG), Department of Mechanical Engineering, Malnad College of Engineering, Hassan.
15.	Member- Department Academic Committee (PG), Department of Mechanical Engineering, Malnad College of Engineering, Hassan.
16.	ISO Coordinator, Department of Mechanical Engineering, Malnad College of Engineering, Hassan.
17.	NBA/NAAC Coordinator, Department of Mechanical Engineering, Malnad College of Engineering, Hassan.

3. Details of Teaching Related Activities

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
1.	2018-19	B. E	<ol style="list-style-type: none"> 1. Fluid Mechanics 2. Heat Transfer 3. Operations Research 4. Applied Thermodynamics 5. Fluid Mechanics Lab 6. Basic Workshop
2.	2019-20	B. E	<ol style="list-style-type: none"> 1. Fluid Mechanics 2. Heat Transfer 3. Operations Research 4. Applied Thermodynamics 5. Fluid Mechanics Lab 6. Hydraulic & Pneumatic Laboratory 7. Internship Evaluation 8. Seminar Evaluation
3.	2020-21	B. E	<ol style="list-style-type: none"> 1. Basic Thermodynamics 2. Heat Transfer 3. Fluid Mechanics & Fluid Machines 4. Operations Research 5. Fluid Mechanics Lab 6. Internship Evaluation 7. Seminar Evaluation
4.	2021-22	B. E	<ol style="list-style-type: none"> 1. Heat Transfer 2. Fluid Mechanics & Fluid Machines 3. Operations Research 4. Financial Management & Engineering Economics (02 Sections) 5. Fluid Mechanics Lab 6. Internship Evaluation 7. Seminar Evaluation
5.	2022-23	B. E	<ol style="list-style-type: none"> 1. Heat Transfer 2. Operations Research 3. Financial Management & Engineering Economics (02 Sections) 4. Fluid Mechanics Lab 5. Internship Evaluation 6. Seminar Evaluation
6.	2023-24	B. E	<ol style="list-style-type: none"> 1. Operations Research (02 Sections) 2. Internship Evaluation

Other UG/PG courses taught:

1. Advanced Fluid Mechanics
2. Advanced Heat Transfer
3. Turbomachines
4. Aerodynamics
5. Vehicle Dynamics
6. Gas Dynamics & Propulsions
7. Advanced Operations Research
8. Refrigeration & Air Conditioning
9. Automotive Engineering
10. Design of Experiments
11. Design of Machine Element-I
12. Design of Machine Element-II
13. Control Engineering
14. Material Science & Engineering
15. Quantitative Techniques
16. Research Methodology
17. Business Research Methodology
18. Statistics for Engineers & Scientist
19. Statistical Quality Control
20. Financial Management & Costing
21. Financial Accounting
22. Management Accounting
23. Engineering Economics
24. Total Quality Management
25. Production Operations Management
26. Operations Management
27. Management & Entrepreneurship
28. Industrial Engineering & Ergonomics
29. Basic Material Testing Laboratory
30. Foundry & Forging Laboratory
31. Machine Shop Laboratory
32. CAD/CAM Laboratory
33. Energy Conversion Laboratory
34. Fluid Mechanics Laboratory
35. Heat & Mass Transfer Laboratory
36. Design Laboratory
37. Hydraulic & Pneumatic Laboratory

Professional Development Activities		
	Membership in profession related committees at state and national level a) At International b) At national level: c) At state :	03 01
	Participation in subject associations, conferences, seminars without paper presentation	10
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	05
	Membership/participation in State/Central Bodies/Committees on Education, Research and National Development	01
	Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television programmes	Nil
	Invited Expert Talks	03

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	Investigation on the Influence of Basalt Short Fiber on Thermo-Physical Properties of Aluminium Metal Matrix Composites	International Journal of Soft Computing and Engineering (IJSCE) Volume-3, Issue-3, July 2013, 332-335.	ISSN: 2231-2307		01	Main Author

2	A New Method for Obtaining an Optimal Solution for Transportation Problems	IJEAT, Volume-2 Issue-5, June 30, 2013, pp. 369-371.	ISSN: 2249-8958		01	Main Author
3	Development and Characterization of Copper-Coated Basalt Fiber Reinforced Aluminium Alloy Composites	International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 8, August – 2013, 37-47.	ISSN: 2278-0181		01	Main Author
4	Prediction of the Elastic Properties of Short Basalt Fiber Reinforced with Al7075 Alloy Metal Matrix Composites	Journal of Minerals and Materials Characterization and Engineering (JMMCE), 2014, 2, 61-69.	ISSN Print: 2327-4076		01	Main Author
5	Microstructure and Mechanical Properties of Cast Aluminium Alloy 7075/Basalt Dispersed Metal Matrix Composites	Journal of Minerals and Materials Characterization and Engineering (JMMCE), 2014, 2, 182-193 Online May 2014 in Sci Res.			01	Main Author
6	Effect of Coating Parameters on Coating Morphology of Basalt Short Fiber for Reinforcement Preparation of Al/Basalt Metal Matrix Composites	International Journal of Electrochemical science, Vol.8, August – 2013, 10138 – 10148.	ISSN 1452-3981,		04	Mentor
7	Review of Al Metal Matrix Composite and Basalt Fiber as a New Reinforcement for MMC”	Life Science Journal, Vol.7 , 522- 560	ISSN: 1097-8135		04	Mentor
8	Investigation on Damping Behaviour of Aluminium Alloy/Basalt Short Fiber Metal Matrix Composites	International Journal of Advanced Engineering Applications, Vol.7, Iss.2, pp.74-81 (2014)			01	Main Author

9	"Tribological Behaviour of Basalt Fiber Reinforced Aluminium Alloy Journal Bearings"	International Journal of Advanced Engineering Applications, Vol.7, Iss.2, pp.82-90 (2014)			01	Main Author
10	"Statistical Investigation on Effect of Electroless Coating Parameters on Coating Morphology of Short Basalt Fiber"	Jordon Journal of Mechanical and Industrial Engineering, Volume 8, Number 3, June. 2014, Pages 153-160.	ISSN 1995-6665		01	Main Author
11	"Dry Sliding Wear Behaviour of Basalt Short Fiber Reinforced Aluminium Metal Matrix Composites"	Journal of Applied mechanics & Engineering, June 2014.			01	Main Author
12	"Corrosion Behaviour of Short Basalt Fiber Reinforced with Al7075 Metal Matrix Composites in Sodium chloride Alkaline Medium"	J. Chem. Eng. Chem. Res. Vol. 1, No. 1, 2014, pp. 1-5, Published: August 25, 2014			01	Main Author
13	"Investigation on the Influence of Basalt Fiber on Thermal properties of Al7075/ Basalt Fiber Metal Matrix Composites"	Science direct, Elsevier Procedia Engineering 97 (2014) 432 – 438.			01	Main Author
14	"Optimization of Coating Parameters on Coating Morphology of Basalt Short Fiber for Preparation of Al/Basalt Metal Matrix Composites Using Genetic Programming"	Jordon Journal of Mechanical and Industrial Engineering, Volume 9, Number 1, Feb. 2015 Pages 9-15.	ISSN 1995-6665		01	Main Author
15	"Corrosion Characteristics of Basalt Short Fiber Reinforced with Al-7075 Metal Matrix Composites"	Jordon Journal of Mechanical and Industrial Engineering Volume 9, Number 1 to be published in June 2015.			00	Main Author
16	"Experimental Investigations on Electroless Deposition of"	Journal of Minerals and Materials Characterization and Engineering			01	Main Author

	Copper on Basalt Fibers”	(JMMCE),2015,3, 289-297.				
17	“Experimental Investigation of Conventional Heat Pipe using Different Working Fluids”	International Journal of Engineering Trends and Technology (IJETT), V38(7), 352-354 August 2016. www.ijettjournal.org. Published by seventh sense research group	ISSN: 22315381.		02	Guide
18	“Corrosion Behaviour of Nickel Coated Short Carbon Fiber Reinforced Al Metal Matrix Composites”	International Journal of Theoretical and Applied Mechanics. Volume 12, Number 3 (2017) pp. 659-669.	ISSN 0973-6085		04	Mentor
19	“Development of Aluminium-Nickel Coated Short Carbon Fiber Metal Matrix Composites”	January 2018, Materials today: proceedings 5(5):11336-11345			02	Main Author
20	“Dry sliding wear behaviour of short Carbon fibre reinforced aluminium matrix composites”	Journal of Critical Reviews, VOL 7, ISSUE 15, 2020, PP:1110-1116.	ISSN- 2394-5125		04	Mentor
21	Review of Nanotechnology Potential in Agricultural Applications	Journal of Nanoscience and Technology, Volume 9, Issue 1,2023 Pages 972-975			02	Mentor

2. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes **(ATTENDED & CONDUCTED)**

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	2-week ISTE workshop on Engineering Thermodynamics conducted by IIT Bombay under the national mission on education through ICT (MHRD, Govt. of India)	2 Weeks	IIT, Bombay
2.	FDP on “Thermal Management of Electronic Equipments”, organized by Department of Mechanical Engineering, P.E.S I institute of technology, Bangalore	01 week	PSCE, Bangalore
3.	“Computational Fluid Dynamics & Ansys Fluent” organized under TEQIP phase II by Department of Mechanical Engineering, UVCE, Bangalore.	01 week	UVCE, Bangalore
4.	Workshop on Pedagogy of Instructional Design and Delivery System	01 week	SJCE, Mysuru
5.	FDP on Internet of Things (IOT) and its applications	01 week	SJCE, Mysuru

6.	FDP on Sustenance of Energy and Environment challenges and Research Dimension	01 week	SJCE, Mysuru
7.	FDP on Advances in Pattern Recognition: An approach through MATLAB	01 week	SJCE, Mysuru
8.	FDP on Strength based personality development program	01 week	SJCE, Mysuru
9.	FDP on Theoretical and Computational MechanicsII	01 week	NMAIT, Karkala
10.	TEQUIP Online Certification on Digital Transformation in Teaching Learning Process (Funded by the Ministry of HRD, Govt. of India)	03 week	IIT, Bombay
11.	Online FDP on Transition Management for Higher Education during Covid-19 Pandemic- A Roadmap	01 week	PMMMNMTT, MHRD, New Delhi
12.	Building Competency in ICT based Teaching using Spreadsheet and Sustainability Strategies during Covid-19 Pandemic	01 week	St. PAUL, Bangalore
13.	Online Research Methodology Workshop on BFSI Sector	01 week	PMMMNMTT, MHRD, New Delhi
14.	NBA Accreditation	01 week	NITTR, Bhopal
15.	FDP on Research Paper & Research Proposal Writing	01 week	NITTR, Bhopal
16.	Training programme on Managerial Skills	01 week	NITTR, Bhopal
17.	FDP on "Alternate Fuels"	01 week	Christian College of Engineering & Technology, Maharashtra
18.	FDP on "Sensors Tecnology"	01 week	Dr. AIT, Bangalore
19.	National Education Policy 2020- Higher Education Prospective	01 week	NITTR, Bhopal
20.	FDP on "Tribology for Reliability-2020"	01 week	GITAM Univeristy, Bangalore campus
21.	Training on Operations Research for Business and Engineering: Concepts, Applications and Methods	01 week	IIT, Delhi
22.	FDP on Advanced Manufacturing and Materials	01 week	IIT, Indore
23.	Training on Computational Fluid Dynamics for Scientists and Engineers	01 week	IIT, Indore

24.	FDP on “Design and Manufacturing of Advanced Materials”	01 week	NITK, Karnataka
25.	FDP on Research Methodology and Scientific Writing for Engineering and Management”	01 week	Vajpayee – Indian Institute of Information Technology and Management (ABV-IIITM)
26.	Participated as a Speaker on presenting the topic titled “Research Methodology” for the 5-day Faculty Development Programme on “A Paradigm Shift in Management”	01 week	Ballari Institute of Technology & Management, Karnataka
27.	FDP on Design of Thermal Systems (Conducted)	01 week	Malnad College of Engineering, Hassan, and Jorhat College of Engineering, Jorhat, Assam
28.	FDP on “Research Opportunities and Challenges in Advance Materials & Manufacturing”	01 week	Malnad College of Engineering, Hassan, and Jorhat College of Engineering, Jorhat, Assam

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/Region
1	Analysis of operation wise scheduling rules in Flexible manufacturing systems	National conference on Industrial Automation: Emerging Trends, CONCOURSE-2005	5 th & 6 th October 2005	Easwari Engineering College, Ramapuram, Chennai	National Conference
2	Optimization of parameters of Genetic Algorithm for scheduling problem in Flexible manufacturing systems	NATCON.ME-2005	10 th & 11 th November 2005	Ghousia college of Engineering, Ramanagram	National Conference
3	Effect of coating parameters on coating morphology of basalt short fiber for	Recent Advances in Materials Science	2 nd & 3 rd March 2006	Karnataka state higher education council in association with Mangalore	International Conference

	preparation of Al/Basalt Metal matrix composites			University, Gulbarga University, Kuvempu University and Tumkur University	
4	Effect of copper electroless coating on the interaction between a molten Aluminium alloy (7075) and coated short basalt fiber	Recent Advances in Materials Science	2 nd & 3 rd March 2006	Karnataka state higher education council in association with Mangalore University, Gulbarga University, Kuvempu University and Tumkur University	International Conference
5	Optimization of Coating Parameters on Coating Morphology of Basalt Short Fiber for Preparation of Al/Basalt Metal Matrix Composites using Taguchi Technique	Exhibition on Materials Science and Engineering at Las Vegas, USA	October 7-9, 2013	Materials Science and Engineering at Las Vegas, USA	International Conference
6	Statistical Investigation on Effect of Electroless Coating Parameters on Coating Morphology of Short Basalt Fiber	Additive Manufacturing Technologies AM-2013	October 7-8, 2013.	Additive Manufacturing	International Conference
7	A New Method for Obtaining an Optimal Solution for Transportation Problems	Advance Materials, Manufacturing, management & Thermal Science [AMMMT-2013]	November-16, 2013	SIT, Tumukuru Karnataka	International Conference
8	Dry Sliding Wear Behaviour of Basalt Short Fiber Reinforced Aluminium Metal Matrix Composites	International Mechanical Engineering Congress, 2014 (IMEC 2014)	13th to 15th June 2014.	National Institute of Technology, Tiruchirappalli	International Conference

9	Investigation on the Influence of Basalt Fiber on Thermal properties of AI7075/ Basalt Fiber Metal Matrix Composites	12th Global Congress on Manufacturing and Management, GCMM- 2014	8th to 10th December 2014	VIT, Vellore, Tamil nandu	International Conference
10	Tribological Behaviour of Basalt Short Fiber Reinforced Aluminium Metal Matrix Composites using Taguchi"s Techniques.	Advancements in Polymeric materials	February 20-22, 2015	Advanced Research school for Technology and Product Simulation (ARSTPS), Central Institute of Plastics Engineering and Technology (CIPET) Guindy, in Association with Indian Institute of Science (IISc), Bangalore, India.	International Conference
11	Development of Aluminium-Nickel Coated Short Carbon Fiber Metal Matrix Composites	Materials, Manufacturing and Modelling, ICMMM- 2017	9th to 11th March 2017	VIT University, Vellore	International Conference
12	Innovations in Management & Strategies for Sustainable Business Development	Sustainable Business Development	11 th March 2017	St. Joseph's Evening College	National Conference