

**Faculty Biodata****GENERAL INFORMATION AND ACADEMIC BACKGROUND****PART-A**

1.	Name(inBlockLetters)	Dr. Hareesha M.
2.	Qualification	B.E., M.Tech.(HEAT POWER ENGINEERING) Ph. D.,
3.	Date of joining the service at MCE	28-08-2011
4.	Department	Mechanical Engineering
5.	Current Designation & Experience in MCE	Associate Professor, 15Years
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	24 Years
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	08 Years 06 Years Nil 14 02 07 05 02 -
8.	Awards /Prizes/ Honor's / Recognitions	-Nil-
9.	Fields of Specialization under the Subject / Discipline	Thermal Engineering, Composite Materials
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	Total 29 Programmes are attended

PART-B

1. List of Publications:

Sl. No.	Title	Journal with Vol. Year & Page No.	ISSN / ISBN No.
1	Effect of B4C/Gr on Hardness and Wear Behavior of Al2618 Based Hybrid Composites through Taguchi and Artificial Neural Network Analysis	Catalysts,2022	20734344
2	A novel study on the development of sisal-jute fiber epoxy filler–based composites for brake pad application	Biomass Conversion and Biorefinery, 2023	21906815, 21906823
3	Production of biodiesel and evaluation of performance and emission charecteristics of Masterwood seed	International Journal of advanced research in engineering and technology	09766499, 09766480
4	Modification of Abrasive Wear Testing Machine and Testing of Materials	International Journal of Science and Research	22076360, 20054238
5	Development on graphene based polymer composite materials and their applications—A recent review	<i>AIP Conference Proceedings</i> , vol. 2316, Art. no. 030016, 2021,	doi: 10.1063/5.0036854
6	Advancing space sustainability: On-orbit repair and recycling through additive manufacturing and automated systems	Letters in High Energy Physics, vol. 2023, Jan. 2023	ISSN:2632-2714
7	Design, Analysis, and Simulation of the Hybrid	Revista Electrónica de Veterinaria, vol.	1695-7504

	Tri-Copter VTOL Tilt-Rotor UAV,”	24, no. 4, Art. 1345, 2024,	
8	Study of leading edge protuberances for low speed horizontal axis wind turbines	ducational Administration: Theory and Practice, vol. 30, no. 5, pp. 12969– 12974, 2024,	doi:10.53555/kuey.v30i5.5534
9	Advancements in angle of Attack (AOA) measurement Techniques for UAV applications	Indian Journal of Technical Education, volume 47,issue2,pp 362-367,March 2024,	ISTE publisher
10	A novel study on the development of sisal-jute fiber epoxy filler–based composites for brake pad application	Biomass Conversion and Biorefinery, vol. 14, pp. 23411– 23423, April 25, 2023,	doi:10.1007/s13399-023-04219-4
11	Fabrication, microstructure study and wear characteristics of coconut shell powder filled natural sisal and jute fiber reinforced epoxy composites	Journal of The Institution of Engineers (India): Series D, vol. —, Art. no. 00864, Jan. 2025	doi:10.1007/s40033-025-00864-3.
12	Synthesis and characterization of magnetic nanoparticle materials (Fe ₂ O ₃ & Fe ₃ O ₄) synthesized by arc discharge method	J. Inst. Eng. (India): Ser. D,May 2025.	doi.org/10.1007/s40033-025-00896-9
13	Characterization and property enhancement of chromic oxide reinforced to Al LM26 metal matrix composite	Cogent Engineering, July 2025, VOL. 12, NO. 1, 2536686.	https://doi.org/10.1080/23311916.2025.2536686

14	RCritical review on additive manufacturing based biomedical and biosensors application	Proc. Inst. Mech. Eng., Part H: J. Eng. Med., early access, Aug. 12, 2025,	doi: 10.1177/09544119251355052
15	Ceramic-Bio Hybrid-Reinforced Al7079 Composites: Combining Boron Nitride with Aloe Vera for Performance Optimization	Journal of Materials Engineering and Performance, April. 24, 2026,	doi.org/10.1007/s11665-026-13933-9
16	Development and mechanical characterization of sustainable Agave americana fiber reinforced epoxy composites through chemical treatment	Discover Materials , july (2026).	doi.org/10.1007/s43939-026-00832-y

- 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.	Department -HOD
2.	BOE - Chairman
3.	Department level- CIE Coordinator
4.	Department level- NIRF Coordinator
5.	Department level- LAB Coordinator
6.	Department level- Faculty advisor
7.	Department level- Course Coordinator
8.	Department level- Mentor
9.	Member-BOS
10.	Member-BOE
11.	Member-Anti ragging committee
12.	NAAC-AQAR Preparation
13.	NBA-AQAR preparation

3. Details of Teaching Related Activities

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title	Activities conducted
1	2025-26	B.E	Engineering Thermodynamics	Visit to Refrigerator Repairing unit & Cold storages, Model making
2	2025-26	B.E	Fluid mechanics and Fluid Machinery	Industrial visit to Hydraulic power station ,Quizzes

3	2024-25	B.E	Engineering Thermodynamics	Visit to Refrigerator Repairing unit & Cold storages, Model making
4	2024-25	B.E	Elements of Mechanical Engineering	Industrial visit to Manufacturing companies
5	2023-24	B.E	Engineering Thermodynamics	Visit to Refrigerator Repairing unit & Cold storages, Model making
6	2023-24	B.E	Introduction to Mechanical Engineering	Industrial visit, Poster presentation
7	2023-24	B.E	Heat Transfer	Industrial visit, Model making
8	2022-23.	B.E	Engineering Thermodynamics	Industrial visit, Problem solving using Python programming, Quizzes
9	2022-23	B.E	Heat Transfer	Gate Exam Numerical Problem solving, Quizzes
10	2022-23	B.E	Fluid mechanics and Fluid Machinery	Industrial visit, Quizzes
11	2022-23	B.E	Introduction to Mechanical Engineering	Industrial visit, Poster presentation
12	2021-22	B.E	Basic Thermodynamics	Gate Exam Numerical Problem solving, Quizzes
13	2021-22	B.E	Elements of Mechanical Engineering	Numerical Problem solving, Quizzes
14	2021-22	B.E	Applied Thermodynamics	Gate Exam Numerical Problem solving, Quizzes
15	2021-22	B.E	Fluid mechanics and Fluid Machinery	Gate Exam Numerical Problem solving, Quizzes
16	2020-21	B.E	Basic Thermodynamics	Gate Exam Numerical Problem solving, Quizzes
17	2020-21	B.E	Elements of Mechanical Engineering	Numerical Problem solving, Quizzes
18	2020-21	B.E	Fluid mechanics and Fluid Machinery	Gate Exam Numerical Problem solving, Quizzes
19	2020-21	B.E	Elements of Mechanical Engineering	Numerical Problem solving, Quizzes

PART-C

Professional Development Activities		
	Membership in profession related committees at state and national level a) At International b) At national level: c) At state :	01
	Participation in subject associations, conferences, seminars without paper presentation	02
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	01
	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	-

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	Effect of B4C/Gr on Hardness and Wear Behavior of Al2618 Based Hybrid Composites through Taguchi and	Catalysts,2022	20734344	Yes	5	Co-author

	Artificial Neural Network Analysis					
2	A novel study on the development of sisal-jute fiber epoxy filler-based composites for brake pad application	Biomass Conversion and Biorefinery, 2023	21906815, 21906823	Yes	5	main author
3	Production of biodiesel and evaluation of performance and emission characteristics of Masterwood seed	International Journal of advanced research in engineering and technology	09766499, 09766480	Yes	1	Co-author
4	Modification of Abrasive Wear Testing Machine and Testing of Materials	International Journal of Science and Research	22076360, 20054238	Yes	1	main author
5	Development on graphene based polymer composite materials	<i>AIP Conference Proceedings</i> , vol. 2316, Art. no. 030016, 2021,	doi: 10.1063/5.0036854	Yes	3	main author

	and their applications —A recent review					
6	Advancing space sustainability: On-orbit repair and recycling through additive manufacturing and automated systems	Letters in High Energy Physics, vol. 2023, Jan. 2023	ISSN:2632-2714	Yes	4	Co-author
7	Design, Analysis, and Simulation of the Hybrid Tri-Copter VTOL Tilt-Rotor UAV,”	Revista Electrónica de Veterinaria, vol. 24, no. 4, Art. 1345, 2024,	1695-7504	Yes	4	Co-author
8	Study of leading edge protuberances for low speed horizontal axis wind turbines	educational Administration: Theory and Practice, vol. 30, no. 5, pp. 12969–12974, 2024,	doi:10.53555/kuey.v30i5.5534	Yes	4	Co-author
9	Advanceme	Indian	ISTE publisher	Yes	4	Co-

	nts in angle of Attack (AOA) measurement Techniques for UAV applications	Journal of Technical Education, volume 47,issue2,p p 362-367,March 2024,				author
10	A novel study on the development of sisal-jute fiber epoxy filler–based composites for brake pad application	Biomass Conversion and Biorefinery, vol. 14, pp. 23411–23423, April 25, 2023,	doi:10.1007/s13399-023-04219-4	Yes	4	main author
11	Fabrication, microstructure study and wear characteristics of coconut shell powder filled natural sisal and jute fiber reinforced	Journal of The Institution of Engineers (India): Series D, vol. —, Art. no. 00864, Jan. 2025	doi:10.1007/s40033-025-00864-3.	Yes	4	main author

	epoxy composites					
12	Synthesis and characterization of magnetic nanoparticle materials (Fe_2O_3 & Fe_3O_4) synthesized by arc discharge method	J. Inst. Eng. (India): Ser. D, May 2025.	doi.org/10.1007/s40033-025-00896-9	Yes	8	Co-author
13	Characterization and property enhancement of chromic oxide reinforced to Al LM26 metal matrix composite	Cogent Engineering, July 2025, VOL. 12, NO. 1, 2536686.	https://doi.org/10.1080/23311916.2025.2536686	Yes	3	Co-author
14	RCritical review on additive manufacturing based biomedical and biosensors application	Proc. Inst. Mech. Eng., Part H: J. Eng. Med., early access, Aug. 12, 2025,	doi: 10.1177/09544119251355052	Yes	4	Co-author

15	Ceramic-Bio Hybrid-Reinforced Al7079 Composites: Combining Boron Nitride with Aloe Vera for Performance Optimization	Journal of Materials Engineering and Performance, April. 24, 2026,	doi.org/10.1007/s11665-026-13933-9	Yes	4	Co-author
16	Development and mechanical characterization of sustainable Agave americana fiber reinforced epoxy composites through chemical treatment	Discover Materials , july (2026).	doi.org/10.1007/s43939-026-00832-y	Yes	4	main author

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

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	Energy prospectus and options	6thmay 2004	MSRIT, Bangalore
2.	Renewable energy education and research	16th and 17th August 2004	East point of Engineering and Technology, Bangalore

3.	Mechatronics (Emerging trends and its applications)	2 nd April 2005	SaIT, Bangalore
4.	Computational fluid dynamics	13 th and 14 th January 2006	SSIT, Tumkur
5.	Occupational health, safety, environment and Fire protection	18 th and 19 th September 2007	Bosch company, Bangalore
6.	Instructional design and delivery systems	One week, 16 th to 21 st February 2009	BMSCE, Bangalore
7.	Student –Teacher relationship in the changing world	8 th and 9 th February 2010	BMSCE, Bangalore
8.	Recent advances in thermal engineering an its applications	One week, 20 th to 24 th May 2013	MCE, Hassan
9.	Strategies for environmentally conscious product design and manufacturing	Two week, 2 nd to 15 th June 2013	PSG College of technology, Coimbatore
10.	Optimization of Mathematical Models and Their applications	One week, 1 st to 6 th July 2013	MSRIT, Bangalore
11.	Real world DSP	Two week, 15 th to 27 th July 2013	CIT, Gubbi
12.	MEMS and Nano Technology	One week, 19 th to 24 th August 2013	BMSCE, Bangalore
13.	Yogasana - Pranayama camp	One week, 4 th to 8 th March 2013	MCE, Hassan
14.	Deriving PEO/PO/CO/Assesment report	11 th to 13 th July 2013	MCE, Hassan
15.	Hydraulic ,Pneumatic systems in industrial automation	27 th to 29 th January 2014	MCE, Hassan
16.	Theoretical , Computational and Applied Mechanics	One week, 16 th to 20 th June 2014	BMSCE, Bangalore
17.	Research Methodologies in Fluid Mechanics and Fluid power	10 th to 12 th July 2014	NITK, Surathkal
18.	Computational Fluid Dynamics	Two weeks, 23 rd June to 5 th July 2014	BMSCE, Bangalore
19.	Analytical and Numerical Techniques in Applied Mathematics and Engineering	One week, 28 th July to 2 nd August 2014	MCE, Hassan
20.	Solid works 2014	5 th to 8 th February 2014	MCE, Hassan
21.	Essential skills for Mechanical Engineers	One week, 1 st to 5 th September 2014	MCE, Hassan
22.	Advances in Bio lubricants and cutting fluids	One week, 8 th to 12 th December 2014	MCE, Hassan

23.	Formulation, Modelling and practical applications of Operation Research	Two weeks , 25 th May to 6 th June 2015	MCE, Hassan
24.	Emerging Trends in Materials and Manufacturing Technology	One week, 27 th February to 3 rd March 2017	MCE, Hassan
25.	Research Methodology and Intellectual Property Rights	23 rd to 25 th March 2017	MCE, Hassan
26.	Advanced Materials Characterization Techniques	13 th to 15 th March 2017	CMTI, Bangalore
27.	Recent Trends in Solar Energy Applications	27 th to 28 th March 2017	MCE, Hassan
28.	Challenges in Non Conventional Energy Sources	One week, 9 th to 13 th April 2018	MCE, Hassan
29.	Total Quality Management	One week, 28 th May to 1 st June	MCE, Hassan
30.	Advanced Mathematical Tools in Engineering applications	One week, 2 nd to 6 th July 2018	MCE, Hassan
31.	Recent developments in Solar and Wind Energy system for on/off Grid applications	One week, 9 th to 13 th July 2018	MCE, Hassan
32.	Essentials for Academic Research	20 th July 2018	MCE, Hassan
33.	Research Opportunities and challenges in advanced Materials and Manufacturing	17 th to 22 nd December 2018	MCE, Hassan
34.	Recent developments in Renewable Energy Sources and Conversion systems for on/off Grid applications	One week, 9 th to 14 th December 2019	MCE, Hassan
35.	Compact Heat Exchangers for Aerospace applications	2 nd to 3 rd January 2020	Dayananda sagar university, Bangalore
36.	Light weight structures for engineering applications through composites and Topology optimization	27 th January to 7 th February 2020	GEC, Hassan
37.	Creating Smart and Green Society through Advance Technology of Green Energy- Phase 1	One week, 10 th to 15 th December 2020	MCE, Hassan
38.	Creating Smart and Green Society through Advance Technology of Green Energy- Phase 2	One week, 17 th to 22 nd December 2020	MCE, Hassan
39.	Online Awareness Workshop on NIRF INDIA Rankings-2021 for Higher Educational Institutions	18 th to 19 th January 2021	Institute for Academic Excellence, Hyderabad
40.	Recent advances in Composite Materials for Engineering applications	One week, 8 th to 12 th March 2021	BMSCE, Bangalore

41.	Research and Innovation	One week, 17 th to 21 st August 2020	VVCE, Mysuru
42.	Research and Publication Ethics	5 th to 6 th August 2020	Dayananda sagar university, Bangalore
43.	Industrial Training	28 th February to 12 th March 2022	RTTC, BSNL, Mysuru
44.	Current Trends in Manufacturing	One week, 13 th to 17 th June 2022	SJMIT, Chitradurga
45.	Advanced Tools and Techniques for Best research	One week, 26 th to 30 th September 2022	RVIT&M, Bangalore
46.	Application of Geo informatics and Remote Sensing in Engineering and Technology	One week, 19 th to 23 rd September 2022	BRIGCE, Solapur
47.	Recent Trends in Composites	One week, 2 nd to 6 th January 2023	Alliance University, Bangalore
48.	Smart Structures and Aeroelasticity	One week, 9 th to 13 th January 2023	Dayananda sagar university, Bangalore
49.	Recent developments in Materials and Manufacturing Processes	Two weeks , 15 th to 27 th January 2024	Smt Kashibhai navale college of Engg, pune
50.	Sustainable Environment-An Engineering perspective, 2024	One week, 8 th to 13 th January 2024	Assam Engg.college, Guwahati
51.	Latest Trends in Additive Manufacturing	One week, 29 th January to 2 nd February 2024	BMSCE, Bangalore
52.	New Generation smart materials and composites for sustainable development	One week, 7 th to 12 th June 2024	MCE, Hassan
53.	Fire prevention and fire fighting	One day, 22 nd May 2024	MCE, Hassan
54.	Recent Advances and Emerging Technologies in Engineering and Applied Sciences	One week FDP, 18 th to 23 rd August 2025	MCE, Hassan
55.	Recent Advancements in Material Characterization	One week FDP, 23 rd to 27 th September, 2025	CVR college of Engineering, Telangana

56.	Modelling and Simulation of Composite Materials: Fabrication, Characterization and Applications	from 09/02/2026 to 14/02/2026.AICTE Training And Learning (ATAL) Academy Faculty Development Program	ELITTE COLLEGE OF ENGINEERING
57.	Next-Generation Manufacturing : AI-Enabled Automation and additive Manufacturing in Industry5.0	One week FDP, 02 nd to 06 th March, 2026	Karunya Institute of Technology and Sciences, Coimbatore
58.	Hydrogen Energy: Systems, Applications, Storage and Next generation Fuels for Sustainable Engineering	One week FDP, 23 rd to 28 th March, 2026	Annasaheb Dange College of Engineering, Shivaji university, Kolhapur
59.	Advanced Materials and Manufacturing Technologies	One week FDP, 04 th to 08 th May, 2026	Malnad College of Engineering, Hassan
60.			
61.			
62.			
63.			

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

S I. N o.	Title	Title of Conference/Seminar etc.	Dates of the Event	Organized by	Whether International/National/State/Regional/University/College Level
1	Development on graphene based polymer composite materials and their applications—A recent	International Conference on Advanced Trends in Mechanical Engineering & Aerospace engineering	07-09 November 2019	Dept. of Mechanical & Aerospace Engg. ,Dayanand Sagar University, Bengaluru	Inter National

	review	g (ATMA-2019)			
2	Development on Natural fibre reinforced polymer composite materials and their applications—A recent review	Presented paper at second International Conference on Advanced Trends in Mechanical Engineering & Automation Science (ATMA-2023)	24-26 March 2023	Dept. of Mechanical Engg., Dayanand Sagar University, Bengaluru	Inter National
3	Effect of addition of micro seashell powder on mechanical properties of Basalt fiber reinforced polymer matrix Composites	Presented paper at second International Conference on Advanced Trends in Mechanical Engineering & Automation Science (ATMA-2023)	24-26 March 2023	Dept. of Mechanical Engg., Dayanand Sagar University, Bengaluru	Inter National
4	Study of Tribological performance of bio-based hybrid composites for brake pad applications”.	Presented paper at International Conference on Materials, Energy, Environment & Manufacturing Sciences (MEEMS – 2024)	20 & 21, December 2024,	Shri Madhwa Vadiraja Institute of Technology & Management, Udupi – 574 115, Karnataka, India.	International
5	A Comprehensive Review on Filler materials in Hybrid	Presented paper at International Conference on Manufacturing, Materials Science & Engineering	22 & 23, August 2025,	Vignan Institute of Technology & Sciences, Hyderabad, Telangana, India.	International

	Natural/Synthetic Fibre Reinforcements”	(ICMMSE–2025)			
6	Investigation of stacking sequence influence on the Mechanical Properties of Banana/ Areca Fiber-Reinforced Epoxy Composites	Presented paper at International Conference on Advancing Sustainability through Multidisciplinary Research & Innovation (CONFLUENCE–2025)	6 th to 8th, November 2025	G M University, Davanagere, Karnataka-577006	International
7	Evaluation of Tribological Properties of Hybrid Natural fibre Composites in Brake Pad applications	International Conference on Surface Engineering of Sustainable & Bio-materials (ICSESBM 2025)	9-11 December 2025	IIT Madras	International

4. Industrial Training Undergone:

Sl. No.	Name of Training centre/Industry	Duration	Name of Course
1.	BSNL, RTTC, Mysuru	Two weeks 28-02-2022 to 12-03-2022	4G/5G and Wireless Networks, Optical Fiber Cable Transmission Equipment, Next Generation Networks, 2G/3G Mobile Networks, Telecommunication Technology

			Data communications,
2.	GTTC Skill development Entrepreneurship and Livelihood Department, Hassan	Two weeks 18-03-2024 to 01-04-2024	Reverse Engineering, Hydraulics Pneumatics
3.	Production Department, Hassan co-operative Milk producers Societies Limited, Hassan	Two weeks 24-06-2024 to 08-07-2024	Boiler section UHT-Plant Ice-cream plant Pet -Bottle Plant
4	Triveni power Transmission Ltd. Mysore	Two weeks 06-07-2026 to 18-07-2026	Raw Material Store & Inward QC,Machine Shop - CNC Turning Hobbing, Shaping,Heat Treatment Shop,Tooth Grinding Shop (Temperature controlled),Assembly Shop (Dust-free, controlled) & Quality Lab,R&D and Design Centre

Note: Do not leave any blank rows and columns. Add/Delete rows/columns appropriately.