

Malnad College of Engineering, Hassan

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

Faculty Biodata

GENERALINFORMATION AND ACADEMIC BACKGROUND

PART-A

1.	Name	Dr. Kalavathi G K	
2.	Qualification	M.Sc., M.Phil., Ph.D.	
3.	Date of joining the service at MCE	02/02/2012	
4.	Department	Mathematics	
5.	Current Designation & Experience in MCE	Associate Professor & Associate Dean- SA	
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	11.09 Years 19 years	
	Research Experience (in Years)	
7.	a) Total Number of years	10	
	b) Years spent in M. Phil. / Ph.D.	05	
	c) Years of Guiding Ph.D. / M. Phil.	03	
	d) Total No. of papers Published in		
	i. International Journalsii. National Journalsiii. Conference Proceedings	15 -	
	e) Total No. of Conferences/Seminar/Workshop Attended	02	
	i. International	03	
	ii. National iii. State Level	-	
8.	Awards /Prizes/ Honor's / Recognitions	-	
9.	Fields of Specialization under the Subject / Discipline	 a) Fluid mechanics b) Numerical Simulations. c) Tribology. d) Energy Harvesting 	

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

SI. No.	Name of Course/Summer/Winter School	Place	Duration	Sponsoring Agency
	Five days FDP on SCI-Lab, Maxima and Python	department of Mathematics and Computer science, P. C. JABIN Science College, Huballi.	October	
2	Five days webinar series on Research & Innovationheld	Information Science and Engineering, VVCE, Mysuru.	17th to 21st October 2020	
3.	One day workshop on Indo-German Research Proposal Writing Workshop	KSTA, Bengaluru.	30th August 2019	Karnataka Government
4.	Two weekFDP on Gaining Insight into Data Science and Data Analytics	Engineering Hassan	15/07/2019 to 27/07/2019.	AICTE
5.	One day workshop on Training the Proctors for effective Counselling	Malnad College of Engineering, Hassan	23/03/2019	TEQIP- III
6.	Two days workshop on Being a Great Teacher	Engineering Hassan	03/11/2018 and 04/11/2019.	TEQIP- III
7.	Two days workshop on Outcomes based education (OBE).	Malnad College of Engineering, Hassan	04/08/2018 and 05/08/2018	TEQIP- III
8.	One week FDP on Advanced Mathematical Tools in Engineering	Engineering Hassan	02/07/2018 to 06/07/2018.	TEQIP-III
9.	One week FDP on Recent Trends in Automotive Technology	Malnad College of	25/02/2018 to 29/02/2018.	TEQIP-III
10.	One week FDP on Total Quality Management	Engineering Hassan	28 May to 01 June 2018.	TEQIP-III

.<u>PART-B</u>

1. List of Publications:

SI. No.	Title	Name of the Journal,Vol. No., Year	ISSN/ISBN/Number	
1.	E. L. Pradeesh, S. Udhayakumar, M. G. Vasundhara, G. K. Kalavathi, Experimental and numerical analysis on different beam geometries for vibration based piezoelectric energy harvester, Ferroelectrics.		00150193	
2.	E. L. Pradeesh, S. Udhayakumar, M. G. Vasundhara, G. K. Kalavathi, A review on piezoelectric energy harvesting, Microsystem and Techmologies, <u>https://doi.org/10.1007/s00542-022-05334-4</u>		1432-1858	
3.	G K Kalavathi , Yuvaraja B K, Dinesh P A, Vasundhara M G, Theoretical Study of influence of MHD in an infinitely long rough Porous Journal Bearing. doi:10.1088/1757-899X/1189/1/01203	Science and Engineering	012030	
4.	Kalavathi G K , Vasundhara M G, Pradeesh E L, Prakash H R, Numerical Simulation Of Electromechanical Shape Memory Alloy Based Tunable Vibration PZT Energy Harvester Without Tip Mass	of Science and Technology, Vol. 50 (6)	1671-4512.	
5.	Kalavathi, G. K. , Najar, F. A., &Vasundhara, M. Proceedings of the Institution of G., Performance characteristics of journal bearings Mechanical Engineers, Part J: (porous type): A coupled solution using Hartmann Journal of Engineering number and roughness parameter. Proceedings of Tribology, Vol. 234(5) 668–the Institution of Mechanical Engineers, 675, https://doi.org/10.1177/1350650119886709 .		1350-6501	
6.	M. G. Vasundhara, M. Senthilkumar, G. K. Kalavathi, A Distributed Parametric Model of Shape Memory Alloy based Resonant Frequency Tunable Cantilevered PZT Energy Harvester with tip mass, , <u>https://doi.org/10.1007/s41683-019-00034-0</u> .	Smart Systems, Springer, Vol. 8, 13-24, 2019	2509-7997	
7.		Materials, Vol. 895, pp. 70-75.		
8.	M. G. Vasundhara, M. Senthilkumar, G. K. Kalavathi, (2019). A distributed parametric model of Brinson shape memory alloy based resonant	Mechanics and Materials in		

	frequency tunable cantilevered PZT energyht harvester.	ttps://doi.org/10.1007/s10999- 118-9429-2.	
9.		Aechanics and Materials in	1573-8841
10.	Nagraj C, Dinesh P. A., Kalavathi G. K.,D "Combined Effects of Electric Field and Magnetic 20 Field on Electro Hydrodynamic Dispersion of Macromolecular Components in Biological Bearing",.		1662-9507
11.	Kalavathi G. K., Dinesh P. A. and Gururajan K., M "Numerical Study of Magnetic Field on Rough4, Porous Narrow Journal Bearing with Heterogeneous Surface",	•	2214-7853
12.	Yuvaraja B K, Kalavathi G.K., Dinesh P.A., K.In Gururajan, "Effects of Magneto HydrodynamicSo Fluids in a narrow Porous rough Journal Bearing", M	cientific and Innovative	2347-3142
13.	Kalavathi, G.K., Dinesh, P.A., K. Gururajan, T "Influence of Roughness on Porous Finite Journal Bearing with Heterogeneous slip/ no-slip surface".20	Elsevier, 102, pp. 174-181,	1879-2464
14.	Kalavathi, G.K., Dinesh, P.A., K. Gururajan, Jo "Numerical Study of Effect of Roughness on Porous Long Journal Bearing with Heterogeneous Surface",	Aathematical Society. 35, pp.	978-31635-0-7.
15.	Kalavathi G K., K. Gururajan, Dinesh P. A., In Gurubasavaraj G., "Effect of surface roughness in So a Narrow Porous Journal Bearing with aM Heterogeneous Slip/No-Slip Surface".	cientific and Innovative	

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.)

SI.No	Responsibilities	
1.	Serving as Associate Dean (SA) and First year coordinator in Malnad College of Engineering since May	
	2023 to till today	
2.	Serving as Institute level NBA - Criteria 8 coordinator in Malnad College of Engineering in 2023.	
3.	Serving as Institute level NAAC - criteria 4 coordinator in Malnad College of Engineering from 2022 to	
	2023.	
4.	Served as department NBA, NAAC, IQAC, NIRF and Research coordinator in Malnad College	
	Engineering from 2015 to May 2023.	
5.	Served as department BOE Chairman from 2019 to 2023 in Malnad College of Engineering.	
6.	Worked as Warden in Malnad college of Engineering Ladies Hostel, Hassan from 07th February 2019 to	
	11 th January 2020.	
7.	Served as department Contineo coordinator from 2017 to 2023 in Malnad College of Engineering	
8.	Served as department Website coordinator from 2015 to 2020 in Malnad College of Engineering.	
9.	Served as Mentor for I year Engineering students in Malnad College of Engineering, Hassan, 2018.	
10.	Served as Faculty Advisor for I year Engineering students in Malnad College of Engineering, Hassan, 2017	
11.	Serving as department BOS & BOE member in Malnad College of Engineering, Hassan since 2014 to till	
	today.	
12.	Served as Coordinator for Internal Examination in Yagachi College of Engineering, Hassan, 2011-2012.	

Completed Project:

05 Lakh amount is sanctioned by VGST, Government of Karnataka, in the year 2017-18 for the topic "A Distributed Parameter Electromechanical model for Cantilevered Piezoelectric Energy Harvester with shape memory alloy".

National and International conferences Attended

- ▶ International Conference ICTMES (August 06 08, 2020), Malnad College of Engineering, Hassan.
- International Conference on Green Trends in Mechanical Engineering Sciences 3-5 October, 2018, Malnad College of Engineering, Hassan, India

Presented papers in National and International conferences

- Presented a paper in International Conference ICARES 2022 held on 24 th & 25th November 2022 at Ramaiah Institute of Technology, Bangalore.
- Presented a paper in International Conference ICMEEP (December 10 11, 2021), Bannari Amman Institute of Technology, Sathyamangalam, Tamilnadu.
- Presented a paper in International Conference ICEMS (March 17 19, 2016), Jaipur National University, Jaipur, Rajasthan, India.