Malnad College of Engineering, Hassan

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

Faculty Biodata

GENERALINFORMATION AND ACADEMIC BACKGROUND

PART-A

1.	Name(inBlockLetters)	**Dr. HEMANTH T S**
2.	Qualification	**Ph.D.**
3.	Date of joining the service at MCE	**13.08.2013**
4.	Department	**Computer Science and Business Systems**
5.	CurrentDesignation &Experience in MCE	**Associate Professor, 12.5 years**
6.	**Teaching Experience:** P.G. (in Years) : U.G. (in Years) :	**12.5 years**
	Research Experience (in Years)	
7.	a) **Total Number of years**	**06**
	b) **Years spent in M. Phil. / Ph.D.**	**06**
	c) **Years of Guiding Ph.D. / M. Phil.**	**00**

	d) **Total No. of papers Published in**
	  i. International Journals
	  ii. National Journals
	  iii. Conference Proceedings
		05
		-
		03

	e) **Total No. of**
	  Conferences/Seminar/Workshop
	  Attended
	  i. International
	  ii. National
	  iii. State Level
		03 international

8.	**Awards /Prizes/ Honor's / Recognitions**	**-**
9.	**Fields of Specialization under the Subject / Discipline**	**AI and Data Science**
10.	**Orientation/Refresher Course/Summer School / Winter School/Workshops attended:**	**6 months PG QIP on Artificial Intelligence and Data Science at IIIT, Kottayam, Kerala from June 2025 to December 2025**

.**PART-B**

1. **List of Publications:**

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	Synthesis and Characterization of Bio-Degradable Plastic by Mucilage of Isabgol Seeds	*Journal of Mines, Metals & Fuels*, Vol. 73, Issue 7, 2025	ISSN 0022-2755 (ISSN Portal)
2.	Energy-Efficient IoT Network Routing Model Based on Multi-Layer Clustering and Deep Learning	*Journal Européen des Systèmes Automatisés (JESA)*, Vol. 58, Issue 5, 2025	ISSN 2116-7087 (Online); 1269-6935 (Print)
3.	Dynamic job sequencing of converging-diverging conveyor system for manufacturing optimization	*Materials Today: Proceedings*, Vol. 52, Issue/Part 3, 2022	ISSN 2214-7853
4.	Effect of Dynamic job Sequencing in a Diverging Converging Conveyor System & Buffer Optimization Using Genetic Algorithm	*Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, Vol. 12, Issue 11, 2021	ISSN 3048-4855
5.	Study the Effect of Different Roller Shape on the Spread of Material in Rolling Operation Using Manufacturing Simulation	*Applied Mechanics and Materials*, Vol. 895, 2019	ISSN 1662-7482 (Online); 1660-9336 (Print) (ISSN Portal)
6.	Optimize the Rolling Process Parameters for Material AA1100 using Metal Forming Simulation	*MATEC Web of Conferences*, Vol. 144, 2018	ISSN 2261-236X (Online); 2274-7214 (Print); Article No. 03005 (ISSN Portal)
7.	Manufacturing Simulation for determining the influence of process parameters on quality of forgings	*International Journal of Engineering Research & Technology (IJERT)*, 2015	ISSN 2278-0181 (ISSN Portal)
8.	Design and Manufacturing Simulation of Preform for Thread Rolling Operation	*International Journal of Modern Engineering Research (IJMER)*, Vol. 5, Issue 10, 2015	ISSN 2249-6645 (ijmer.com)

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.	**BoS member**
2.	BoE Member
3.	IQAC Coordinator
4.	Project Coordinator
5.	Website Coordinator
6.	CIE Coordinator
7.	Campus Disciplinary Committee member

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	**Synthesis and Characterization of Bio-Degradable Plastic by Mucilage of Isabgol Seeds**	*Journal of Mines, Metals & Fuels*, **Vol. 73 (7)**, 2025, **pp. 2127–2136**	**ISSN (Print): 0022-2755**	**Peer-reviewed:** Yes. **Impact factor:** Impact IF **0.34 (2024)** (Scopus-based metric)	**7**	
2	**Energy-Efficient IoT Network Routing Model Based on Multi-Layer Clustering and Deep Learning**	*Journal Européen des Systèmes Automatisés (JESA)*, **Vol. 58 (5)**, 2025, **pp. 1031–1039**	**ISSN: 1269-6935** (Print); **2116-7087 (Online)**	**Peer-reviewed:** Yes. **Impact metric:** SJR 0.227 (2024)	**6**	
3	**Dynamic job sequencing of converging-diverging conveyor system for manufacturing**	*Materials Today: Proceedings*, **Vol. 52 (3)**, 2022, **pp. 1901–1908**	**ISSN: 2214-7853**	**Peer-reviewed:** Yes. **Impact metric:** SJR 0.585 (2024) ; Impact IF 2.84 (2024)	**4**	

	optimization				
4	**Effect of Dynamic job Sequencing in a Diverging Converging Conveyor System & Buffer Optimization Using Genetic Algorithm**	*Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, **Vol. 12 (11), 2021, pp. 5769–5773**	**E-ISSN: 1309-4653**	**Peer-reviewed:** Yes.	**3**
5	**Study the Effect of Different Roller Shape on the Spread of Material in Rolling Operation Using Manufacturing Simulation**	*Applied Mechanics and Materials*, **Vol. 895, 2019, pp. 290–294**	**ISSN: 1662-7482**	**Peer-reviewed:** Yes.	Yes **2**
6	**Optimize the Rolling Process Parameters for Material AA1100 using Metal Forming Simulation**	*MATEC Web of Conferences*, **Vol. 144, 2018, Art. 03005 (pp. 1–6)**	**eISSN: 2261-236X**	**Peer-reviewed:** Yes.	Yes **2**
7	**Manufacturing Simulation for determining the influence of process parameters on quality of forgings**	*International Journal of Engineering Research & Technology (IJERT)*, **NCERAME–2015 (Vol. 3 – Issue 17),** 2015, pp. 146–151	**ISSN: 2278-0181**	**Peer-reviewed:** Yes.	Yes **3**
8	**Design and Manufacturing Simulation of Preform for Thread Rolling**	*International Journal of Modern Engineering Research (IJMER)*, **Vol. 5**	**ISSN: 2249-6645**	**Peer-reviewed:** Yes.	Yes **2**

	Operation	(10), Oct 2015, pp. 60–68				
9	**Assessing The Influence Of Rolling Parameters On The Spread of Hot Rolled Aluminum Alloy Slab Using Manufacturing Simulation**	*International Journal Of Engineering Sciences & Management*, **Mar 2017, pp. 166–175**	**ISSN: 2231-3273**	**Peer-reviewed:** Yes.	3	Yes

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

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	"Salesforce Platform Developer 1"	29th May to 2nd June, 2023 — **MCE, Hassan**	ICT Academy
2.	Joy of Python Programming (MOOC)	Jan–April, 2023 — **NPTEL (Online)**	NPTEL
3.	POWER BI	30th Jan to 03rd Feb, 2023 — **Vidyavardhaka College of Engineering, Mysuru**	ICT Academy
4.	Design Thinking and Prototyping in AICTE IDEA LAB	21th to 29th October, 2022 — **MCE, Hassan**	AICTE
5.	"Design Thinking"	7th to 12th March, 2022 — **Vidyavardhaka College of Engineering,**	AICTE

		Mysuru	
6.	"3D Printing and Design"	22nd to 26th November, 2021 — **ATAL**	AICTE, ATAL
7.	Three days workshop on "Technological advancements in Mechanical Engineering"	26th May to 28th May, 2020 — **Anantapura (in association with ISME)**	Self
8.	How to learn online (MOOC)	April, 2020 — **edX Online (Online)**	edX Online
9.	Open FOAM training (MOOC)	March, 2020 — **IIT Bombay (Spoken Tutorial)**	Sinhad Institute of Technology and Science, Pune (with Spoken Tutorial course material)
10.	Refresher Course on Teacher and Teaching in Higher Education, ARPIT (MOOC)	16-week course (completed Feb 2020) — **Swayam (Online)**	Swayam
11.	Three days workshop on "Metallography and Metallurgical Lab practice"	7th and 8th December, 2018 — **ASM International, Bengaluru**	TEQIP - III
12.	Being a Great Teacher	3rd and 4th November, 2018 — **MCE, Hassan**	TEQIP - III
13.	Outcomes Based Education	04–05 August, 2018 — **Heritage, Hassan**	TEQIP - III

14.	One week FDP on "Hands on Training program for Mechanical Engineering Faculty members on Thermo-Mechanical Simulator"	17th July to 20th July, 2018 — **IIT, Roorkee**	TEQIP - III
15.	One Week FDP on "Recent Development in Solar and Wind Energy system for on/off grid Application"	9th July to 13th July, 2018 — **MCE, Hassan**	TEQIP - III
16.	One day training program on TEQIP - III MIS	27th June, 2018 — **Mumbai (NPIU, Delhi)**	TEQIP - III
17.	One Week FDP on "Recent Trends in Automotive Technology"	25th June to 29th June, 2018 — **MCE, Hassan**	TEQIP - III
18.	One Week FDP on "Total Quality Management"	28th May to 1st June, 2018 — **MCE, Hassan**	TEQIP - III
19.	One Week FDP on "Challenges in Non-Conventional Energy Sources"	9th to 13th April, 2018 — **MCE, Hassan**	TEQIP - III
20.	"Professional and Academic Quality in Engineering Courses (PAQ)"	23rd April, 2018 — **MCE, Hassan**	TEQIP – II
21.	One week FDP on "Advanced Manufacturing Processing Techniques"	12th to 17th February, 2018 — **MCE, Hassan**	TEQIP – II
22.	Two days workshop on "Finite Element Analysis"	5th – 6th Jan, 2018 — **MCE, Hassan**	TEQIP - II
23.	Three days workshop on "Faculty Mentors on Induction Programme for New students"	4th to 6th September, 2017 — **Raipur (in association with NPIU)**	TEQIP - II
24.	One week exclusive FDP on Geometric Dimensioning and Tolerancing	20th March to 24th March,	TEQIP - II

		2017 — **CMTI, Bangalore**	
25.	Three days workshop on "Innovative Teaching Methodologies" (Organised by IIT Bombay)	10th to 12th March, 2017 — **MCE, Hassan**	TEQIP - II
26.	One Week FDP on "Emerging Trends in Materials and Manufacturing Technology"	27th February to 03rd March, 2017 — **MCE, Hassan**	TEQIP - II
27.	One Week FDP on "Advances in Bio-lubricants and Cutting Fluids"	08th to 12th December, 2014 — **MCE, Hassan**	TEQIP - II
28.	One Week FDP on "Analytical and Numerical Techniques in Applied Mathematics and Engineering"	28th July to 02nd August, 2014 — **MCE, Hassan**	TEQIP - II
29.	Formulation, Modeling and Practical Applications of Operations Research (FMPAOR-2015)	2 weeks (During 25th May 2013 – 6th June 2015) — **MCE, Hassan**	AICTE