



Malnad College of Engineering, Hassan

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

Faculty Biodata

PART-A

GENERAL INFORMATION AND ACADEMIC BACKGROUND

1.	Name(in Block Letters)	Mrs. MADHUSHREE C
2.	Qualification	B.E, MTech., (PhD).,
3.	Date of joining the service at MCE	30.08.2023
4.	Department	CIVIL ENGINEERING
5.	Current Designation & Experience in MCE	Assistant Professor 3 Years, 2 Months
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	10.0 Years (UG)
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	a) 2.5 years b) 2.5 years c) NIL d) i) 5 ii) 1 ii) 2 e) International Conference: 3; Workshop: 15; Seminar: 15

8.	Awards /Prizes/ Honor's / Recognitions	a) Certificate of Appreciation, in the recognition of service and support for Training programme on Water Resources & Management , conducted for employees of Corporate – Technology and Engineering Academy, Larsen & Toubro, Mysuru
9.	Fields of Specialization under the Subject / Discipline	Water Resources, Hydrology
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	Certificate of Participation in the SEAN-DEE Lab within South- East Asean Network for Disaster and Environmental Engineering project, sponsored by the German Academic Exchange

1. Academic Responsibilities

- The only teaching faculty in the stream of Water Resources in the Department
- The number of subjects offered to the students as Professional and Open elective subjects in the stream of Water Resources has been increased
- Guided UG projects on Water Resources and Multidisciplinary Projects

S. No	Semester	Branch	Course	Students In Class	Students Passed	% Passed (P)
1	FIRST	CIVIL	Innovation and Design Thinking	22	21	95%
2	THIRD	CIVIL	Smart Urban Infrastructure	67	65	97%
3	FIFTH	CIVIL	Irrigation Engineering A & B	143	114	80%
4	SECOND	CIVIL	Innovation and Design Thinking	20	20	100%
5	FOURTH	CIVIL	Fluid Mechanics and Hydraulics	59	50	85%
6	EIGHTH	CIVIL	Water Resources Engineering	42	42	100%

7	FIFTH	CIVIL	Groundwater Development and Management	34	33	97%
8	SIXTH	CIVIL	Groundwater Hydraulics	15	14	93%
9	FIFTH	CIVIL	Research Methodology	60	54	90%
10	SIXTH	CIVIL	Irrigation Engineering and Hydraulic Structures	57	54	95%

2. Key Roles Handled in the Institute/Department

- SoUL Club Convener (Institute)
- Dean Planning & Development Coordinator (Institute)
- MoU coordinator under Dean Research (Institute)
- Mentor
- Lab Incharge - Fluid Mechanics & Hydraulic Machinery
- MoU Coordinator
- Social Media Coordinator
- Placement Coordinator
- SustaiNest - Student Club Founder
- Point of Contact for the MoU Between MCE & Construction Management Training Institute (CMTI), Bengaluru
- Point of Contact for the MoU Between MCE & Builders Association of India (BAI) (Hassan Chapter)
- Point of Contact for the MoU Between MCE & Ultratech Cements Pvt Ltd.,
- Coordinator for Centre of Excellence for Sustainable Construction Practices & Materials
- Value Added Course/Finishing School Coordinator

3. Student Development Activities

- Guided student project “Experimental Investigation on Behavior of Light Transmitting Concrete using Optical Fibre and Glass Fibre” selected for State-level Competition “Anveshana”, which won a cash prize of Rs. 10000/-.
- Guided student project “IoT based Smart Water Quality Monitoring Device” selected for State-level Competition “Anveshana”.
- Guided student project titled “Assessing the Influence of Monitoring Station Density on Groundwater Level Variability Analysis”, presented at the International Conference on River Resilience: Environmental Flows to River Health through the Lens of Ecosystem Services (ICRR 2025) organised under the Project entitled Development of Guidelines for Environmental Flow in a River Located in the Humid Tropics" funded under SPARC (Scheme for Promotion of Academic and Research Collaboration), Ministry of Education, Government of India, from the 27th of February to the 1 of March 2025 at NIT Calicut.
- Guided student project titled “Integrating Artificial Neural Networks and Ordinary Kriging for Improved Groundwater Level Predictions in Semi Arid Regions”, presented at the 2nd International Conference on Civil Engineering Innovative Development in Engineering Advances (ICC IDEA-2025) scheduled from 20th - 22nd March 2025, by the department of Civil Engineering, SRM Institute of Science and Technology, Kathankulathur
- Guided student project titled "Assessment of Geostatistical Methods for Accurate Groundwater Estimation", presented at the International Conference on Smart Infrastructure & Innovation in Civil Engineering ICSI CE-2025 on May 21st, 2025 at J P College of Engineering, Ayikudi, Tenkasi, Tamilnadu
- Guided Student project titled “Geo - Spatial Delineation of Geomorphic Units & Strategies for Enhancing Water Storage in the Gundal River Basin”, presented at the Symposium on River Health Evaluation & Protection (RHEAP 2025) under the Ministry of Jal Shakti, Department of Water Resources, jointly with NITK Surathkal from 29th & 30th December 2025
- Student Patent- Title of the invention : Smart Street Lighting System with Automated Vehicle Detection and Energy Optimization:Application No.202441103899 A:Date of filing of Application :27/12/2024: Publication Date : 03/01/2025
- Student Patent - Title of the invention : Performance of Ternary Blended Fiber-Reinforced Self-Compacting Concrete with Fly Ash, GGBS, and Metakaolin:Application No.202441104126 A:Date of filing of Application :28/12/2024:Publication Date : 10/01/2025
- Student Patent - Title of the invention : Biosorptive Treatment of RO Drain Water Using Banana and Orange Peel-Derived Adsorbents:Application No.202441104107 A:Date of filing of Application :28/12/2024:Publication Date : 10/01/2025
- Student Patent - Title of the invention : PLC-Based Automated Water Bottle Filling and Capping System Using Conveyor and Sensor Technology:Application No.202441103903 A:Date of filing of Application :27/12/2024:Publication Date : 03/01/2025

- Student Patent - Title of the invention : Pervious Concrete Kerbs for Enhanced Runoff Water Management on Highways:Application No.202441103427 A:Date of filing of Application :26/12/2024:Publication Date : 03/01/2025
- Student Patent - Title of the invention - IOT Based Water Quality Monitoring Device:Design Patent:Design No:446675-001: Publication Date: 04/02/2025

4. Activities Organised in the Department

SL No.	DATE	EVENT NAME
1	08.11.2024	Three Days Training Program in Connection with Dr C Giffere Satyadas Seminar lecture Series
2	14.05.2024	Two days Software Certification Training Programme on Sketchup held at UG CAD laboratory
3	14.02.2024	Conducting a Training Program on Safety Measures for Non Teaching Faculty Member
4	13.10.2023	From Blueprints to Reality : The Power of Construction Expertise
5	28.10.2025	Ultratech Skill Honing Academy Training Program
6	23.09.2025	Ultratech Skill Honing

		Academy Training Program
7	8 th -10 th Nov 2024	Advanced Construction Management Practices
8	12 th -13 th Feb 2024	Unlock your future- A Two day interview Mastery Workshop
9	14 th Feb 2024	Safety Measures Training Program
10	14 th and 15 th May 2024	Sketch Up - Two Days Software Training Program

Sl No.	Activity	Title	Date of Conduction	Resource Person
11	Three Days Software Training Program	Navisworks – BIM (Building Information Modelling)	23.03.2026 to 25.03.2026	Er. Uday Shankar Ramaswamy, Managing Director, BTR Construction
12	Three Days Software Training Program	ETABS	03.12.2025 to 05.12.2025	Er. Uday Shankar Ramaswamy, Managing Director, BTR Construction

13	Three Days Training Program	REVIT 3D	04.11.2025 to 06.11.2025	Mr. Uday Shankar Managing Director, BSR Construction, Chennai
14	Outreach Activity	Students visit to Civil Engineering Department	26.12.2024	Millennium World School, Hassan Dr. M N Jagannathappa, Professor (Retd.), Facilitator, Dept., of Civil Engineering, MCE, Hassan
15	One Day Workshop	Skill Development & Employment Readiness on Building the Foundation of Success: Soft Skills for Future Civil Engineers	13.12.2024	Mrs. Suman Pai, Tantalum Academy
16	Three Days Training Program	Dr. C Giffered Satyadas Lecture Series on Advanced Construction	08.11.2024 to 10.11.2024	Er. Manoharan Palaniswamy, Senior Construction on Project

		Management Practices		Management Professional
17	Finishing School	2 Days Software Training Program on SketchUp	14.05.2024 to 15.04.2024	Er. Udhatshankar Ramaswamy, Managing Director, BTR Constructions
18	Invited Talk	Dr. C Giffere Satyadas Lecture Series on Challenges in Construction of Roads in Himalayas	27.03.2024	Er. Nagesh Puttaswamy, ConCroc, UltraTech Cements
19	Training Program	Safety Measures Training Program for Non-Teaching Faculty Members	14.02.2024	Dr. Ravi Kanakaraj, Safety Consultant, Bangalore International Airport Limited
20	Two Days Workshop	Unlock Your Future A 2 Days Interview Mastery Workshop	12.02.2024 to 13.02.2024	Er. Ashok Kumar, BE, PMP, IGBC-AP, Founder and CEO, CMTI, Bengaluru
21	One Day Workshop	Innovate to Elevate:	01.12.2023	Dr. G B Krishnappa

		Navigating Research Grants and Patents for Academic Success		(Professor & Dean (R&D)), VVCE, Mysuru
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5. Research Developments

A. List of Membership in Professional Bodies/Society

S.No.	Name of the Professional Society /Body at National and International Level	Name of the Grade/ Level/Position
1	Association of Consulting Civil Engineers (India) - ACCE	Life Member - 5443
2	The Indian Society for Technical Education (ISTE)	Life Member - LM130314
3	Indian Geotechnical Society (IGS)	Life Member - LM4905

B. List of Book Chapters for the past 3 years.

Sl No	Authors	Title of the Book/Book Chapter	Year, Edition and Page Number	ISBN	Publisher
1	Manu K C and Madhushree C	“Environmental MMCs: Corrosion and Degradation and Oxidation”	2026, Pages 199-216	ISBN: 978-0-443-40371-2 Metal Matrix Composites Materials, Processing, Properties and Applications Woodhead Publishing Series in Composites	Elsevier

				Science and Engineering https://doi.org/10.1016/B978-0-443-40371-2.00005-2	
2	Lavanya H D and Madhushree C	“Eco-Conscious Remediation: Harnessing the Power of Natural Coagulants for Dairy Wastewater Treatment”, Water and Environment Volume2	2024, volume 2, Pg No 201-210	ISSN 2366-2557 ISSN 2366-2565 (electronic) Lecture Notes in Civil Engineering ISBN 978-981-97-7502-6 (eBook) https://doi.org/10.1007/978-981-97-7502-6	Springer

C. Resource Person in STTP/FDP events

SL.No.	Name of the STTP/FDP	Date	Location Organized by
1	"Digital Skills"	24 February, 2025	Six week Internship Training Program organised by ME-RIISE foundation, Malnad College of Engineering, Hassan
2	Anveshana Nationals 2024-25	30 November, 2024 to 01 December, 2024	Organized by Agastya International Foundation, Bengaluru

D. List of Publications for the past 3 years.

Sl No.	PAPER TITLE	JOURNAL NAME	Publication Year	Journal Link
1	Eco-Friendly Pavement Solutions: Performance and Thermal Study of Steel Slag waste Modified Asphalt Mixes	Metallurgical and Materials Engineering 31 (4):380-85. https://doi.org/10.63278/1447.2025 https://metall-mater-eng.com/index.php/home/article/view/1447	2025	https://metall-mater-eng.com/index.php/home/article/view/1447
2	Testing the Appropriateness of Lumped Hydrological Model in Groundwater Recharge Estimation for a Small Catchment in Karnataka, India	International Journal of Environmental Sciences ISSN: 2229-7359 Vol. 11 No. 3S, 2025 https://theaspd.com/index.php/ijes/article/view/2038	2025	https://theaspd.com/index.php/ijes/article/view/2038
3	Corrosion in Steel Structures: A Review	Journal of Mines, Metals and Fuels, 73(1): 0-0; 2025. DOI: 10.18311/jmmf/2025/46985. https://informaticsjournals.co.in/index.php/jmmf/article/view/46985	2025	https://informaticsjournals.co.in/index.php/jmmf/article/view/46985
4	Implications Of Farming And Cropping Systems On Groundwater Resource In Berambadi Watershed, Karnataka- A Systematic Review	International Journal of Environmental Sciences ISSN: 2229-7359Vol. 11 No. 10s, 2025 https://www.theaspd.com/ijes.php	2025	https://theaspd.com/index.php/ijes/article/view/1424
5	Utilization of Granulated Blast Furnace Slag in Cement Mortar: Performance Analysis Against M-Sand	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075 (Online), Volume-13 Issue-11, October 2024, https://www.ijitee.org/portfolio-item/k997113111024/	October 2024	https://www.ijitee.org/portfolio-item/k997113111024/
6	Comparative Seismic Analysis of Regular and Irregular Multistorey Structures with and without Bracings and Shear wall,	IOP Conference Series: Earth and Environmental Science, Earth Environ. Sci. 1387 012012, https://iopscience.iop.org/article/10.1088/1755-1315/1387/1/012012	December 2023	https://iopscience.iop.org/article/10.1088/1755-1315/1387/1/012012

E. Patent Published for the past 3 years

- An experimental study on Pervious concrete as a paver block Application No : 202541008476 A
- Previous Concrete Kerbs for Enhanced Runoff Water Management on Highways, Application No.202441103427 A, (43)
- PLC-Based Automated Water Bottle Filling and Capping System Using Conveyor and Sensor Technology, Application No.202441103903 A
- Design Patent: Drainage Cover with Anti- Slip Pattern, Design No. 6533441
- A Geomorphology - Driven Method for Sustainable River Basin Management and Reservoir Sedimentation Control, Application No: 202641032619 A

F. List of International/National Conferences for the past 3 years

1. Presented A Paper entitled “Comparative Seismic Analysis of Regular and Irregular Multistorey Structures with and without Bracings and Shear wall” In The International Conference On Civil Engineering Trends And Challenges For Sustainability (CTCS-2023) , During 19th And 20th December 2023 at NITTE.
2. Presented a paper entitled “Eco-Conscious Remediation: Harnessing the Power of Natural Coagulants for Dairy Wastewater Treatment” in the International Conference on Water Resources, Ocean and Environmental Engineering (ICWROEE 2024) during 17-18 February, 2024 held at National Institute of Technology NIT Silchar, Assam, India.
3. Presented the paper entitled ‘Assessing the Influence of Monitoring Station Density on Groundwater Level Variability Analysis’ at the International Conference on River Resilience: Environmental Flows to River Health through the Lens of Ecosystem Services (ICRR 2025) organised under the Project entitled "Development of Guidelines for Environmental Flow in a River Located in the Humid Tropics" funded under SPARC (Scheme for Promotion of Academic and Research Collaboration), Ministry of Education, Government of India, from the 27 of February to the 1" of March 2025 at NIT Calicut.
4. Presented “Evaluating Station Density's Impact On Groundwater Level Estimation In A Semi-Arid Karnataka Watershed” ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025) from (February 7–9, 2025, Hotel Novotel, Chandigarh, India) organized by ASCE India Section Northern Region (ASCE IS NR) & Punjab Engineering College, Chandigarh

5. Presented the paper entitled ‘Integrating Artificial Neural Network and Ordinary Kriging for Improved Groundwater Level Predictions in Semi-Arid Region’, 2nd International Conference on Civil Engineering Innovative Development In Engineering Advances, [ICC IDEA -2025], 20th-22nd March 2025, organized by Department of Civil Engineering, SRM Institute of Science and Technology Kathankulathur.

G. Other Achievements

1. Successfully completed Innovation Ambassador (IA) Training: Foundation Level, comprising 30 contact hours, conducted by MoE’s Innovation Cell & AICTE, June 2026. Advanced Level, comprising 30 contact hours, conducted by MoE’s Innovation Cell & AICTE, June 2026.
2. Completed a 3-Day Hands-on Training Workshop on “Physics Based Digital Twin for Predictive Maintenance and Virtual Monitoring in Water Systems”, conducted from 12–14 May 2026 at the Department of Water Resources Development and Management, IIT Roorkee.
3. Represented Malnad College of Engineering at the TV9/Public TV Education Summit and Synergy Event
4. Reviewer for Water Resources Management Journal, Springer Nature
5. Reviewer for Korean Society for Civil Engineers(KSCE) Journal, Elsevier
6. Completed 15 days Industry Training from 29/06/2026 to 13/07/2026 at Cauvery Neeravari Nigama Ltd., Hemavathi Sub Division, Gorur, Hassan