



Malnad College of Engineering, Hassan
(An Autonomous Institute, Affiliated to V.T.U., Belagavi)

Faculty Biodata

GENERAL INFORMATION AND ACADEMIC BACKGROUND

PART-A

Sl. No.	Particulars	Details
1	Name	Prof. BRUNDA B N
2	Current Designation	Assistant Professor
3	Department	Civil Engineering
4	Qualification	B.E.; M.Tech. (Construction Technology); Ph.D. (Coursework Completed)
5	Date of Joining MCE	16/09/2023
6	Teaching Experience at MCE	3 years
7	Industrial Experience	2 years — Housejoy Construction and Renovation, Indiranagar, Bengaluru
8	Pay Scale	(16250 + 6000)
9	Research Areas / Specialization	Sustainable Construction Materials; Geopolymer Technology; Stabilized Mud Blocks; Industrial By-products in Construction

PROFESSIONAL MEMBERSHIPS

Sl. No.	Professional Body	Membership
1	ISTE — Indian Society for Technical Education	Lifetime Member
2	ASCE — American Society of Civil Engineers	Annual Membership
3	American Concrete Institute (ACI) Committee	Committee

STUDENT MENTORING & ACADEMIC ENGAGEMENTS

1. NAIN 2.0 — Funded Student Innovation Project (₹3.80 Lakhs) — Project Mentor

Date / Year: 2026

Project: Waste to Wellness: Value Addition of Cascara for Nutritional and Cosmetics Applications
Successfully mentored the student innovation project that secured ₹3,80,000 in funding under the NAIN 2.0 (New Age Innovation Network) programme, promoting sustainable value addition of agricultural waste for nutritional and cosmetic applications.

2. ASCE India Student Symposium 2026 — Faculty Advisor

Date / Year: March 2026

Venue: UPES Dehradun & PEC Chandigarh

Guided the ASCE student team to First Place in the Tiny Bridge Competition, where the bridge successfully carried 62.8 kg with zero deflection. The award was presented by Dr. Har Amrit Singh Sandhu, President, ASCE India Section, and Dr. Saswati Datta, Co-Chair, ASCE India Section.

3. Youth Research Catalyst Project 2026 — Project Mentor

Project: Gesture Vocalizer

Mentored the student team that secured Fourth Place for developing an assistive technology that converts hand gestures into speech using computer vision and machine learning, enabling effective communication for individuals with speech and hearing impairments.

4. World of Concrete India 2024 — Faculty Advisor, ASCE Student Chapter

Date / Year: 16–18 October 2024

Venue: Bombay Exhibition Centre, Mumbai

Accompanied ASCE student members to the international exhibition, providing exposure to advanced construction materials, equipment, sustainable technologies, and industry best practices.

5. ASCE India Section Annual General Meeting 2024 — Faculty Representative

Date / Year: 18 October 2024

Venue: Bombay Exhibition Centre, Mumbai

Represented Malnad College of Engineering at the ASCE India Section Annual General Meeting, participating in discussions on student chapter activities, future initiatives, and professional networking.

6. Jury Member — Tech Trivia, ISTE Student Chapter

Date / Year: 9–10 November 2024

Venue: Government Engineering College, Hassan

Served as a Jury Member for the Tech Trivia competition organized by the ISTE Student Chapter, evaluating participants' technical knowledge and problem-solving skills.

7. TV9 Kannada Education Summit 2025 — Faculty Representative

Date / Year: 26–27 April 2025

Venue: Bengaluru

Represented Malnad College of Engineering at the TV9 Kannada Education Summit 2025, showcasing the institution's academic excellence, innovation, and student achievements while interacting with educators, industry experts, and prospective students.

8. Bengaluru Tech Summit 2025 — Faculty Representative

Date / Year: 20 November 2025

Venue: Bengaluru

Represented Malnad College of Engineering at the Bengaluru Tech Summit 2025 under the ME–RIISE initiative, participating in exhibitions and discussions focused on innovation, entrepreneurship, research, and industry–academia collaboration.

PART-B

RESPONSIBILITIES, ACADEMIC SERVICE AND PROFESSIONAL ACTIVITIES

RESPONSIBILITIES IN THE DEPARTMENT AND INSTITUTE

Sl. No.	Responsibilities
1	ASCE (American Society of Civil Engineers) Student Chapter — Faculty Advisor
2	Advanced Survey Camp Officer (Twice)
3	E-Attestation Officer (Scholarship)
4	Avasamrachana Sameekshana (College Level)
5	NPTEL / SWAYAM Coordinator
6	Industry Driven Course Coordinator
7	Syllabus and Scheme Coordinator for V & VI Semester
8	Department Library Coordinator
9	Samarth Coordinator
10	Faculty Advisor and Mentor
11	NAAC and NBA Criteria 3

CONSULTANCY WORK EXECUTED

Sl. No.	Nature of Consultancy Work
1	Non-Destructive Testing (NDT)
2	Concrete Block Testing
3	Aggregate Testing
4	Construction Material Quality Assessment
5	Technical Inspection & Test Reporting

WORKSHOPS / EVENTS ORGANIZED

Sl. No.	Event Title	Date(s)
1	ASCE Membership Drive — 2024	06/10/2024
2	ASCE Day — 172nd Anniversary Celebration	05/11/2024
3	Three-Day Student Training Programme on Advanced Construction Management Practices	08/11/2024– 10/11/2024
4	Outreach Activity — Visit to Balmandir	07/12/2024
5	Sports Day — 2024	28/12/2024– 29/12/2024
6	International Women's Day Celebration — 2025	13/03/2025
7	ASCE Membership Drive — 2025	23/04/2025
8	Technical Visit to Yagachi Dam	13/06/2025
9	Igniting Hearts — Visit to Blind School	07/11/2025
10	Annual Sports Meet — 2025–2026	05/12/2025– 06/12/2025
11	International Women's Day Celebration — 2026	10/03/2026
12	Bridge Construction Event during SAVISKAR — 2026	28/04/2026

Sl. No.	Event Title	Date(s)
13	Six-Day Hands-on Technical Training Programme on DGPS Surveying and Drone Surveying	20/07/2026–01/08/2026
14	Online Session on NPTEL Registration for the 2023–24 and 2024–25 Admitted Batches	25/07/2026

NATIONAL INITIATIVE FOR TECHNICAL TEACHERS TRAINING (NITTT) — MODULES COMPLETED

Module	Title	Completion Date
Module 1	Orientation Towards Technical Education and Curriculum Aspects	29 August 2025
Module 2	Professional Ethics and Sustainability	30 August 2025
Module 3	Communication Skills, Modes and Knowledge Dissemination	30 August 2025
Module 4	Instructional Planning and Delivery	07 September 2025
Module 6	Student Assessment and Evaluation	06 September 2025
Module 8	Institutional Management and Administrative Procedures	07 September 2025
Module 5	Technology Enabled Learning & Life Long Self Learning	07 August 2026
Module 7	Creative Problem Solving, Innovation and Meaningful Research & Development	08 August 2026

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

PATENT PUBLICATIONS

Sl. No.	Patent Title	Application No.	Publication Date
1	Enhanced Concrete Composites with Optimized Coir Fibre Orientation for Improved Mechanical Properties	202441028353 A	12/04/2024
2	Enhanced Pervious Concrete Composites with Optimized Sugarcane Bagasse Ash for Improved Mechanical Properties	202441038580 A	24/05/2024
3	Intensify Concrete Composites with Optimized Copper Slag for Improved Mechanical Properties	202441047559 A	28/06/2024
4	Enhanced Concrete Composites with Optimized Marble Dust for Improved Mechanical Properties	202541023320 A	28/03/2025
5	Enhanced Concrete Composites with Optimized Recycled Concrete Aggregate for Improved Mechanical Properties Using a Linear Regression Model	202541036585 A	09/05/2025
6	Enhanced Concrete Composites Incorporating Silica Fume Wastes for Improved Carbonation Durability	202641007328 A	06/02/2026

RESEARCH PUBLICATIONS

Sl. No.	Paper Title	Journal / Publication Details	ISSN / DOI
1	An experimental study on the effect of chemical composition on the strength behaviour of geopolymer mortar	IOP Conference Series: Earth and Environmental Science, Vol. 1387, 2024, Article No. 012010	ISSN: 1755-1315; DOI: 10.1088/1755-1315/1387/1/012010
2	Sustainable energy solutions: Biodiesel blends from bitterwood oil for engine efficiency and emission reduction	Tuijin Jishu / Journal of Propulsion Technology, Vol. 45, No. 3, 2024	ISSN: 1001-4055
3	Influence of chemical admixtures on properties of structural concrete	Journal of Harbin Engineering University, Vol. 46, No. 7, July 2025, page 532 onwards	ISSN: 1006-7043
4	Experimental investigation and predictive modelling of sustainable concrete incorporating industrial by-products	International Journal of Computational and Experimental Science and Engineering (IJCESSEN), Vol. 11, No. 4, 2025	ISSN: 2149-9144; DOI: 10.22399/ijcesen.4824

PAPERS PRESENTED AT CONFERENCES

Sl. No.	Conference / Presented Work	Institution Venue /	Date
1	5th International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS–2023)	NITTE, Udupi	19–20 December 2023
2	NIT Calicut ICRR 2025 — International Conference: Sustainable Eco-Friendly Approaches for the Treatment of Automobile Wash Water using Bio-Coagulant and Bio-Adsorbent	NIT Calicut	27 February–01 March 2025
3	International Conference — ICNGTS: Design and Development of Composite Materials using Bio-mimic of Porcupine Quills	Karpaga Vinayaga College, Tamil Nadu	13–14 March 2026

FACULTY DEVELOPMENT PROGRAMMES / TRAINING ATTENDED

Sl. No.	Title of FDP / Training	Duration / Date
1	Second Series of Advancements in Concrete Technology (AICT–2023)	02–07 November 2023
2	Sustainable Environment — An Engineering Perspective (SEEP–2024)	08–13 January 2024
3	Global Symposium on Sustainable Development in Civil Engineering	19–20 January 2024

Sl. No.	Title of FDP / Training	Duration / Date
4	Sustainable Construction Materials, Practices and Technologies	18–22 March 2024
5	Recent Advances and Research Scope in Geotechnical Engineering	03–07 June 2024
6	New-Generation Smart Materials and Composites for Sustainable Development	07–12 June 2024
7	Recent Advances in Structural Engineering and Material Science (RASEMS)	25–29 June 2024
8	Innovative Teaching and Learning Pedagogy	23–27 July 2024
9	Recent Advances and Emerging Technologies in Engineering and Applied Sciences	18–23 August 2025
10	Innovation Ambassador Training — Foundation Level (16 Sessions; 30 Contact Hours)	Academic Year 2025–26
11	ATAL Faculty Development Programme — AI for All: Enabling Inclusive and Responsible Artificial Intelligence in Education and Industry	03–08 November 2025
12	Recent Advances and Emerging Trends in Civil Engineering	02–06 March 2026
13	Emerging Innovations for Sustainable Engineering: Research Gaps and Future Directions	16–20 March 2026
14	Advanced Materials and Manufacturing Technologies	04–08 May 2026

WORKSHOPS ATTENDED

Sl. No.	Workshop Title	Institution / Venue	Date
1	Intellectual Property Rights in Academia: Strategies for Success	MCE, Hassan	09 May 2024
2	ICT Academy–Nemetschek One-Day Workshop on BIM Using Archicad, Solibri and Bluebeam	The National Institute of Engineering, Mysuru	31 January 2025
3	Workshop on Concrete Mix Designing as per IS 10262:2019	VVIT, Mysuru	20–21 March 2025
4	Hands-on Training Session on X-Ray Diffraction (XRD) and Differential Scanning Calorimetry (DSC)	CIIRC–JIT, Bengaluru	19 September 2025