



Malnad College of Engineering, Hassan

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

Faculty Biodata

GENERAL INFORMATION AND ACADEMIC BACKGROUND

PART-A

1.	Name(inBlockLetters)	SWATHY B A
2.	Qualification	BE, M.Tech, Ph.D (ongoing)
3.	Date of joining the service at MCE	26th August 2021
4.	Department	EEE Department
5.	CurrentDesignation &Experience in MCE	Assistant Professor & 5 years
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	PG- 5 years UG- 5 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. ofConferences/Seminar/Workshop Attended i. International ii. National iii. State Level	Joined in December 2025 8 months 3 2
8.	Awards /Prizes/ Honor's / Recognitions	-
9.	Fields of Specialization under the Subject / Discipline	Advanced power electronics
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	-

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	Implementation of Hybrid Renewable Energy Conversion and Control System	JETIR2010025 - JETIR October 2020, Volume 7, Issue 10	ISSN-2349-5162

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
2.	BOE
3.	NBA
4.	NAAC
5.	WOMEN EMPOWERMENT
6.	PLACEMENT CO-ORDINATOR

3. Details of Teaching Related Activities

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
1	2021-22 (ODD)	BE	Advanced Power Electronics
		BE	Basic Electrical Engineering
		M.Tech	Power Electronic Converters
		BE	Microcontroller Laboratory
		BE	Circuits and Measurements Laboratory
		BE	Circuits Simulation Laboratory
2	2021-22 (EVEN)	BE	Basic Power Electronics-(open elective)
		BE	Basic Electrical Engineering
		BE	Control System Laboratory
		BE	Electronics Laboratory
3	2022-23 (ODD)	BE	Power Electronics
		BE	Microcontroller Laboratory
4	2022-23 (EVEN)	BE	Alternate Energy Sources
		BE	Power Electronics Laboratory

		BE	Testing & commissioning of Electrical equipment
		BE	RENEWABLE ENERGY SOURCES
		BE	Micro controller laboratory
5	2024-25 (ODD)	BE	Power Electronics
		BE	Utilization Of Electrical Power
		BE	Power Electronics Laboratory
6	2024-25 (EVEN)	BE	Introduction to Electrical Engineering
		BE	Alternate Energy Sources
		BE	Microcontrollers (Integrated Laboratory)
		BE	Digital Electronic Circuits (Integrated Laboratory)
7	2025-26 (ODD)	BE	Introduction to Electrical Engineering
		M.Tech	Electrical Energy Management
		BE	Linear Control System (Integrated Laboratory)
		BE	Power Electronics Laboratory
		BE	Innovative design thinking laboratory
8	2025-26 (EVEN)	BE	Introduction to AI and its use cases for Electrical & Electronics Engineering
		BE	Smart Grid Technology
		BE	Microcontrollers Laboratory – B3 Batch
		BE	Interdisciplinary Project- Based Learning

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 :	IAENG-
	Participation in subject associations, conferences, seminars without paper presentation	--
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	--
	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	--

1. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes IS IT CONDUCTED OR ATTENDED

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1	FDP on “Research perspectives: RENEWABLE ENERGY IN ELECTRIC VEHICAL CHARGING”	22/11/2021 to 26/11/2021	ATAL
2	FDP on “INCLUDING UNIVERSAL HUMAN VALUES IN TECHNICAL EDUCATION”	20/12/2021 to 24/12/2021	ATAL
3	FDP on “Research perspectives: RENEWABLE ENERGY- A FUTURE ALTERNATIVE”	17/01/2022 to 21/01/2022.	ATAL
4	VGCT sponsored 4 days OFFLINE FDP on “APPLICATION OF POWER ELECTRONICS IN SMART GRID, RENEWABLE ENERGY RESOURCE AND INDUSTRIAL DRIVES”	12/9/2022 to 15/9/2022.	PES Institute of Technology
5	5 Days Offline FDP on “OUTCOME BASED EDUCATION”	19/09/2022 to 23/09/2022	Malnad College of Engineering
6	Offline FDP on “SALESFORCE PLOTFORM DEVELOPER 1”	29/05/2023 to 02/06/2023	ICT Academy
7	FDP on “EV CHALLENGES AND EMERGING TRENDS”	18/03/2024 to 22/03/2024	ATAL
8	FDP on “EXPLORING EMERGING TRENDS AND FUTURE DIRECTIONS IN MACHINE LEARNING-INTEGRATED VLSI DESIGN”	03/07/2024 to 10/07/2024	ATAL
9	FDP on “REVOLUTIONIZING ELECTRIC AND HYBRID VEHICLE TO THE GAME CHANGING ROLE OF AI IN ENHANCING EFFICIENCY, SAFETY AND SUSTAINABILITY”	05/12/2024 to 11/12/2024	ATAL
10	FDP on “FUTURE READY GRIDS: RENEWABLE INTEGRATION, ELECTRICAL VEHICLES AND SUSTAINABLE SMART TECHNOLOGIES”	17/03/2025 to 21/03/2025	ATAL
11	FDP on “ A SYSTEMATIC WAY OF RESEARCH PAPER WRITING”	01/08/2025 to 06/08/2025	ATAL
12	One day workshop on “EXPLORING EMERGING TRENDS AND FUTURE DIRECTIONS IN MACHINE LEARNING-INTEGRATED VLSI DESIGN”	20 th September	Malnad College of Engineering
13	Role of session coordinator in 2025 International Conference on Computing Technologies & Data Communication	4 th and 5 th July	ICCTDC
13	Orientation Towards Technical Education and Curriculum Aspects	3 Months	National institute of technical teachers training(NITTT)

14	Professional Ethics & Sustainability	3 Months	National institute of technical teachers training(NITTT)
15	Communication Skills, Modes & Knowledge Dissemination	3 Months	National institute of technical teachers training(NITTT)
16	Instructional Planning and Delivery	3 Months	National institute of technical teachers training(NITTT)
17	Technology Enabled Learning & Life Long Self Learning	3 Months	National institute of technical teachers training(NITTT)
18	Student Assessment and Evaluation	3 Months	National institute of technical teachers training(NITTT)
19	Creative Problem Solving , Innovation and Meaningful R & D	3 Months	National institute of technical teachers training(NITTT)
20	Institutional Management & Administrative Procedures	3 Months	National institute of technical teachers training(NITTT)
21	Emerging technologies for smart power grids	05/01/2026 to 09/01/2026	NIT- Hamirpur
22	AI & IOT integration in smart renewable energy networks	19/01/2026 to 24/01/2026	ATAL
23	Workshop conducted - Two-Day Workshop on Practical Hands on Python Programing for Electrical Engineers	EEE Computer Center – 1 st and 2 nd April 2026	Malnad college of engineering

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

Sl. No.	Title of Conference/Seminar etc.	Dates of the Event	Organized by	Whether International/National/State/Regional/ University/College Level
1	Performance Analysis of Lithium-Ion Battery Discharge Voltage Prediction using Window based LSTM with Gradient Boosting Residual Learning	11/05/2026	2026 International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT)	Scopus
2	Comparative Framework for Multi Industry Electrical Load Pattern Analysis Based on Time Domain Statistical and Discrete Wavelet Transform Energy Features	10/04/2026	2026 International Conference on Recent Advancement in Electrical, Computer and Communication Technologies (IECCT)	Scopus

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