

## Achievements and Contributions

**Dr. Spoorthi B S**

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### Academic qualification:

Qualifications	Discipline/ Specialization	Institute	Board/ University	Year of Passing
Ph.D	E&C	Dayananda Sagar University	Dayananda Sagar University	2025
M.Tech	DE & CS	Malnad College of Engineering Hassan	VTU, Belagavi, Karantaka,	2018
B. E	E&C	Malnad College of Engineering Hassan	VTU, Belagavi, Karantaka	2016

### **Experience (07 years)**

Since 11-February - 2019

Malnad College of Engineering, Hassan, Karnataka.

### Work experience:

S. No.	Position held	Name of the institution	From	To
1	Associate Professor	Malnad College of Engineering, Hassan, Karnataka	11/02/2019	Till date

### **Achievements - journals/book chapter Published- 4**

International Journals with MCE affiliation	Book Chapters	Scopus Indexed	Quartile of Q-Index	FDP's/ NPTL	Patents
					Published
06	01	3	Q3 = 2 Q4 = 1	33/1	02

**Journals / book chapter to be Published (Accepted) - 02**

<b>International Journals with MCE affiliation</b>	<b>Book Chapters</b>	<b>SCIE Indexed</b>	<b>Scopus Indexed</b>	<b>Quartile of Q-Index</b>
<b>02</b>	<b>-</b>	<b>00</b>	<b>02</b>	<b>Q2 = 2</b>

**Additional responsibilities:**

- ❖ Worked as Faculty Advisor
- ❖ Worked as NAAC Criteria Department Coordinator
- ❖ Worked with the Department for achieving accreditation from National Board of Accreditation (NBA).
- ❖ Working as student mentor
- ❖ Stock verification Committee member
- ❖ Anti-Ragging Committee member
- ❖ Worked as Department Placement Coordinator
- ❖ Working as Department Internship Coordinator
- ❖ Working as Department Time Table Coordinator
- ❖ Member of Dept. Academic Committee, BOS & BOE
- ❖ Prepared the laboratory manuals
- ❖ Developed and implemented detailed lesson plans
- ❖ Guided, lead, and mentored students in project works

**International Journals/ Book chapters with MCE affiliation**

<b>Sl. No.</b>	<b>Title of the paper</b>	<b>Name of the Journal</b>	<b>Published Year</b>	<b>Quartile</b>
1.	Three-level Hybrid Data Security	Soft Computing for Security Applications, Springer	2022	Q4
2.	Quantum Key Generation, Integration with AES Encryption for Quantum Attack Resilience	Journal of Information Systems Engineering and Management	2025	Q3
3.	Integrating Q-bit Generation via Quantum Computing for Enhanced AES Encryption and LSB Technique for Secure Image Steganography	Journal of Information Systems Engineering and Management	2025	Q3

4.	A novel hybrid system for data hiding using AES algorithm, two-level image steganography and PDT techniques	Information and Computer Security	2024	Q2 (Accepted)
5.	A Post-Quantum Cryptographic Approach using State Substitution Method and Random Key Generator Technique	Frontiers of Information Technology & Electronic Engineering	2025	Q2 (Accepted)
6.	Solar wireless electric vehicle charging system	International Journal of Advanced Research in Computer and Communication Engineering	2023	ISBN 2278-1021
7.	Modern Multi-Layered Access Control System for Physical Security using Smart Locking Mechanism	Proceedings of 16 <sup>th</sup> International Conference on Recent Engineering & technology	2025	ISBN 978-81-983500-8-4
8.	IoT Based Cashless Payment system in a Drinking Water Dispenser Machine	Proceedings of 16th International Conference on Recent Engineering & technology	2025	ISBN 978-81-983500-8-4
9.	Waste management in smart cities using shortest path approach	Proceedings of International Conference on Recent Trends and Technologies in soft computing	2020	ISBN 978-93-5416-195-7

### Patent Granted/Published

Sl. No.	Details (Mention year, value, etc. where relevant)
1.	<b>Patent Publication:</b> Headset- Wearable and Modular Device for Hybrid Brain-Computer Interface, Publication Date:29/04/2022
2.	<b>Patent Publication:</b> A Block chain-Driven Collaborative Defense System DDOSchain for Dynamic DDOS Prevention, Publication Date:04/10/2024

### Reviewer for Conferences

1. Reviewer for International Conference on Renewable Energy, Green Computing & Sustainable Development, 2025
2. Reviewer for 2<sup>nd</sup> IEEE International Conference on Data Science and Network Security, 2024
3. Reviewer for IEEE MYSURUCON 2021

### Membership of Professional bodies:

- ❖ Member of AI-ML Innovative Entrepreneurs and Engineers Association

- ❖ Member of Indo Universal Collaboration for Engineering Education
- ❖ Member of IFERP Community

### **Industrial Training:**

- ❖ Industrial Training, Hamul Hassan, have undergone Industrial training at Hamul Hassan from 01-09-2024 to 15-09-2024 on “Sensor Based Pet Bottle Automation Process using SCADA Software”.

### **Other Achievements:**

- ❖ Session Coordinator in 2025 IEEE International Conference on Computing Technologies & Data Communication
- ❖ Faculty coordinator for National Level Faculty Development Program on Cloud Infrastructure
- ❖ Evaluator for Six week Internship Program on Digital Skills
- ❖ Attended IEEE International Conference on Image Processing, Abu Dhabi, UAE

### **Certification Course, Workshops & FDP:**

Sl. No	Name of Course/Summer/Winter School	Place	Duration
1.	Integrating AI tools for innovative Teaching and research	Bharath Institute of higher education and research Chennai	21/07/2025 to 26/07/2025
2.	Technovations in Smart Grid and Smart Cities	S R University, Telangana	07/04/2025 to 11/04/2025
3.	Recent trends in electrical and electronics engineering	Global institute of science and technology	21/04/2025 to 26/04/2025
4.	Future ready grids: Renewable integration, Electric Vehicles, Sustainable Smart Technologies	S R University, Telangana	17/03/2025 to 21/03/2025
5.	Scaling new heights: Comprehensive Training Programme to Enhance Overall Institutional Diligence	MCE	20/09/2024
6.	Generative AI Models and Applications of Machine Learning	Shri Vishnu Engineering College for Women, Bhimavaram	21/05/2024 to 25/05/2024
7.	Sustainable Power Generation and Advance Electrical Systems	S R University, Telangana	03/07/2024(30 hours)
8.	Hands on AI tools: Elevate your Creative Research	RITE, Bhubaneswar	17/06/2024 to

	Writing		21/06/2024
9.	Advancement in quantum computing and sensor technology	Oxford College of Engineering	1 week 15 <sup>th</sup> to 27 <sup>th</sup> April 2024
10.	National Symposium	MCE	20/02/2024 to 23/02/2024
11.	Cloud Infrastructure	Brain o vision solution	1 Week 21 <sup>st</sup> to 25 <sup>th</sup> August 2023
12.	Research article writing and research funding	Knowledge research academy	19 <sup>th</sup> April 2023
13.	Amazon web services	AISSMS	22-27 August 2022
14.	Ensuring quality engineering education	MCE	22 <sup>nd</sup> November 2021
15.	Cyber Security and Data Science	CMR Institute of Technology	26-27/11/2021
16.	Block chain technology	SRM institute of science and technology	21 <sup>st</sup> -23 <sup>rd</sup> October 2021
17.	Block chain with cyber security	Easwari engineering college	24 <sup>th</sup> -29 <sup>th</sup> May 2021
18.	Empowering the moral values, ethics and behavioral attitude in teaching skills among teachers	N G P institute of technology	19/04/2021 to 24/04//2021
19.	Careers in cyber security	Sahyadri college of engineering	15/05/2021
20.	Incorporating the techniques of block chain and artificial intelligence to face the security and privacy challenges of IT infrastructure	KCG college of technology	18th to 23rd January 2021
21.	Energy management and advanced techniques for a sustainable future	Sri Krishna college of engineering	19/01/2021 to 12/01/2021
22.	Deep learning techniques for ambient intelligence and smart environment	R M D engineering college	7/12/2020 to 12/12/2020
23.	Block chain	K C G college of engineering	21/9/2020 to 25/09/2020
24.	Cyber security	Hyderabad institute of technology	7/9/2020 to 11/9/2020
25.	Incorporating the techniques of block chain and artificial intelligence to face the security and privacy challenges of IT infrastructure	KCG college of technology	23/11/2020 to 28/11/2020
26.	Artificial Intelligence	Sri Krishna college of engineering	31/08/2020 to 4/09/2020
27.	Data Science the future and new technology	Balaji institute of technology and science	5 <sup>th</sup> to 9th October 2020

28.	E-Content Development	Shri shivaji college	31 <sup>st</sup> August to 5 <sup>th</sup> September 2020
29.	Cyber Security	St. Joseph's College of Engineering	2020-8-24 to 2020-8-28
30.	Mathematical foundation of machine learning	NITTE	14 <sup>th</sup> to 21 <sup>st</sup> August 2020
31.	Mathematical foundation of machine learning	NITTE	7 <sup>th</sup> to 13 <sup>th</sup> August 2020
32.	Block chain	IIT, Vadodara	15 <sup>th</sup> to 19 <sup>th</sup> June 2020
33.	International engineering educator certification program	IUCEE	6 months

### **Online Certification Courses (SWAYAM/NPTEL/MOOC's etc..)**

<b>Sl. No.</b>	<b>Title</b>	<b>Duration</b>	<b>Venue</b>
1.	Digital Design with Verilog	Jan-Apr 2025 (12 Weeks)	IIT Guwahati
2.	Innovative Teaching Strategies and Tools in the Digital Age	4-Weeks 2023	IIC Ludhiana

**Personal Information:**

<b>Name</b>	<b>: Dr. Spoorthi B S</b>
<b>Father's Name</b>	<b>: Srinivas B V</b>
<b>Date of Birth</b>	<b>: 13-06-1994</b>
<b>Nationality</b>	<b>: Indian</b>
<b>Marital Status</b>	<b>: Married</b>
<b>Religion</b>	<b>: Hindu</b>
<b>Permanent Address</b>	<b>: Near Manjunatha Kalyana</b>
	Mantapa, Boovanahally
	Hassan-573201
	Karnataka, India.
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I hereby declare that all the above information is true to the best of my knowledge.

**Dr. Spoorthi B S**