



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	Dr. RAJU S.P.
2.	Qualification	M.Sc., Ph.D.
3.	Date of joining the service at MCE	16/09/2018
4.	Department	PHYSICS
5.	Current Designation & Experience in MCE	ASSOCIATE PROFESSOR & ASSOCIATE DEAN (PLANNING AND DEVELOPMENT)
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	8
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	10 Years 5 Years 6 Years 10 01 04 04 03 00
8.	Awards /Prizes/ Honor's / Recognitions	03 (Best poster award in national (01) and International (02) Conference)
9.	Fields of Specialization under the Subject / Discipline	Nanotechnology, Solidstate Physics, and Quantum computing
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	15

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	Advancing nanoparticle characterization and resistivity modeling: A comparative analysis of ChatGPT-4o and ImageJ software	Aip Conference Proceedings, 3426 (1), 2026	1551-7616
2.	Enhancing patient health management and surgical decision-making: A comparative study of chatgpt 4o, My GPT, and Gemini advanced in refractive eye surgery recommendations	Aip Conference Proceedings, 3426 (1), 2026	1551-7616
3.	Transformation of Doctoral Education in the AI Age: Integrating Indigenous Knowledge, Partnership Models, and Problem-based Research	University News, 64 (28), 2026	0566-2257
4.	Time-dependent thermochromic and electrical signatures in malachite green–pva films for sustainable anti-counterfeiting applications	International Journal of Applied Mathematics, 38 (11s), 2025	1314-8060
5.	Preperation of qd-rgo hybrid nanomaterials; simple and effective route to avoid intense charge carrier recombination to boost opto-electrical properties	International Journal Of Engineering Research & Technology (Ijert), Volume 11, Issue 05, 2023	2278-0181
6.	Fluorescent sensitized irradiation sensing and recording hybrid quantum dot embedded polymer nanocomposites	Physica Scripta, 97, 2022	1402-4896
7.	Study on effects of shockwave treatment on PVA films in view of electrical property changes	Material Research Express, 7, 2020	2053-1591
8.	Shock Wave Treated PVA Films as Alternative Bio Degradable Polymer for Packaging Industry	Engineering Reports, 3, 2020	2577-8196
9.	Shock tube data processing tools using open source hardware and software platforms	J. Nano-Electron. Phys., 12, 2020	2077-6772
10.	Preparation of fluorescent CdTe@ CdS core@ shell quantum dots using chemical free gamma irradiation method	Journal of Luminescence 192, 17-24, 2017	1872-7883.
11.	ZnS shell growth on thiol capped CdTe quantum dots using gamma irradiation	AIP Conference Proceedings 1832 (1), 050037, 2017	1551-7616
12.	Gamma irradiation effects on optical properties of CdTe quantum dots	Indian Journal of Pure and Applied Physics 56, 624-627, 2018	0975-1041

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.	Associate Dean (Planning and Development)
2.	NBA Criteria 9 (Coordinator)
3.	Co-coordinator of AICTE IDEA LAB
4.	Convenor of workshops, competitions, and project activities – AICTE IDEA LAB
5.	College level - Member- BOE, All committees of AICTE IDEA LAB, Anti-ragging committee (ongoing)
6.	Department level – Member – BOS, BOE
7.	Convenor of workshops, competitions, and project activities (Physics)
8.	Coordinator of QCat LAB and MCE Quantum Science and Technology Consortium

3. **Details of Teaching Related Activities**

Sl. No.	Academic Year	(B.E./M.Tech)	Course Title
1)	2018-19 (SEM I and SEM II)	B.E.	Engineering Physics
2)	2019-20 (SEM I and SEM II)	B.E.	Engineering Physics
3)	2020-21 (SEM I and SEM II)	B.E.	Engineering Physics and Introduction to Nanotechnology and Quantum Science
4)	2021-22 (SEM I and SEM II)	B.E.	Engineering Physics for electrical and Electronics stream, and Introduction to Nanotechnology and Quantum Science
5)	2022-23 (SEM I and SEM II)	B.E.	Engineering Physics for Computer Science and Engineering Stream, and Introduction to Nanotechnology and Quantum Science
6)	2023-24 (SEM I and SEM II)	B.E.	Engineering Physics for electrical and Electronics stream, and Introduction to Nanotechnology and Quantum Science
7)	2024-25 (SEM I and SEM II)	B.E.	Engineering Physics for electrical and Electronics stream, Engineering Physics for Mechanical and Introduction to Nanotechnology and Quantum Science
8)	2025-26 (SEM I and SEM II)	B.E.	Engineering Physics for electrical and Electronics stream, Engineering Physics for Mechanical and Quantum Algorithms and Quantum Communication

Professional Development Activities		
	Membership in profession related committees at state and national level a) At International b) At national level: c) At state :	01
	Participation in subject associations, conferences, seminars without paper presentation	01
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	05
	Invited Expert Talks	10

4. Grants-related details

1. AICTE IDEA LAB Grant (2021-2025) – Rs.3774000 (AICTE) + Rs.3774000 (MTES)
2. ATAL FDP Grant (2024) – Rs.3,50,000 (AICTE)
3. Consultancy – Quantum Simulators Development - (2026) - Rs.3,00,000 (Industry)

5. Patent-related details

1. Patent published for the invention of Polyvisdynoscope – 2025 (January)
2. Patent published for the development of QSpace – 2026 (July)

6. Startup-mentoring related details

1. Quantangle Research labs India Private limited
2. Quantummate india private limited
3. Mipzo india private limited
