



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	CHAITRA S N													
2.	Qualification	M.Sc., B.Ed., (Ph.D.)													
3.	Date of joining the service at MCE	26/08/2024													
4.	Department	Physics													
5.	Current Designation & Experience in MCE	Assistant Professor since 2Y													
Research Experience (in Years)															
6.	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	<table border="1"> <tr> <td>a)</td><td colspan="2">02</td></tr> <tr> <td>b)</td><td colspan="2">02</td></tr> <tr> <td>d)</td><td>i) 04</td><td>iii) 01</td></tr> <tr> <td>e)</td><td>i) 06 Conferences ii) 01 Conference</td><td>06 workshop</td></tr> </table>		a)	02		b)	02		d)	i) 04	iii) 01	e)	i) 06 Conferences ii) 01 Conference	06 workshop
a)	02														
b)	02														
d)	i) 04	iii) 01													
e)	i) 06 Conferences ii) 01 Conference	06 workshop													
7.	Awards /Prizes/ Honor's / Recognitions	Best Paper award in international conference													
8.	Fields of Specialization under the Subject / Discipline	Polymers													
9.	Workshops attended:	06													

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	Fluorescent sensitized irradiation sensing and recording hybrid quantum dot embedded polymer nanocomposites SP Raju, Ramaraja Varma, SN Chaitra, P Poornima, K Thirumalesh, Ganesh Sanjeev	Physica Scripta, 97, 2022	1402-4896
2.	Time-Dependent Thermochromic And Electrical Signatures In Malachite Green-Pva Films For Sustainable Anti-Counterfeiting Applications Poornima P., Raju S.P. Kaliprasad C S, Chaitra S.N., Dimpana T. Raj, Dhanush N, Prameela H C., Ismayil, Chandrashekara H.D.	International Journal of Applied Mathematics, 38, 2025	1314-8060
3.	Advancing Nanoparticle Characterization and Resistivity Modeling: A Comparative Analysis of ChatGPT-4o and ImageJ Software Dimpana T Raj, Dhanush N, Chaitra S N, Poornima P, and Raju S P	AIP Conference Proceedings	3445, 020007
4.	Enhancing Patient Health Management and Surgical Decision-Making: A Comparative Study of ChatGPT 4o, My GPT, and Gemini Advanced in Refractive Eye Surgery Recommendations. Dhanush N, Dimpana T Raj, Chaitra S N, and Raju S P	AIP Conference Proceedings	3426, 020009
5.	AI-Assisted Equivalent Circuit Verification of Ion-Doped PVA Electrolytes: A Comparative Study with Conventional EIS Software. Chaitra S N, Dimpana T Raj, Dhanush N , Lathashree C.K, Raju S P	Under Review	

2. Responsibilities in the Department and Institute / University

Sl. No	Responsibilities
1.	Faculty Advisor
2.	Mentor
3.	Member - Antiragging committee
4.	Course Preparation, CIE, Etc.,
5.	Member - NBA
6.	Member - NAAC
7.	Department Level IQAC coordinator
8.	College Disciplinary Committee Member

3. Details of Teaching Related Activities

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
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1	2024-25 (SEM 1)	B.E.	Physics for Computer Science Engineering
2	2024-25 (SEM 2)	B.E.	Physics for information Science Engineering
3	2025-26 (SEM 1)	B.E.	Physics for Computer Science Engineering
4	2025-26 (SEM 2)	B.E.	Physics for Electronics and Electrical Engineering

Professional Development Activities		
1	Participation in conferences, paper presentation	09
2	Participation in short term training courses	02
3	Participation in online courses (Credit based)	16

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

1. Published Papers in Journals

Sl. No.	Title	Journal with Vol. Year & Page No.	ISSN / ISBN No.	No. of Co-authors
1	Fluorescent sensitized irradiation sensing and recording hybrid quantum dot embedded polymer nanocomposites	Physica Scripta, 97, 2022	1402-4896	SP Raju, Ramaraja Varma, SN Chaitra, P Poornima, K Thirumalesh, Ganesh Sanjeev
2	Time-Dependent Thermochromic And Electrical Signatures In Malachite Green–Pva Films For Sustainable Anti-Counterfeiting Applications	International Journal of Applied Mathematics, 38, 2025	1314-8060	Poornima P., Raju S.P. Kaliprasad C S, Chaitra S.N., Dimpana T. Raj, Dhanush N, Prameela H C., Ismayil, Chandrashekara H.D.
3	Advancing Nanoparticle Characterization and Resistivity Modeling: A Comparative Analysis of ChatGPT-4o and ImageJ Software	AIP Conference Proceedings	3445, 020007	Dimpana T Raj, Dhanush N, Chaitra S N, Poornima P, and Raju S P
4	Enhancing Patient Health Management and Surgical Decision-Making: A Comparative Study of ChatGPT 4o, My GPT, and Gemini Advanced in	AIP Conference Proceedings	3426, 020009	Dhanush N, Dimpana T Raj, Chaitra S N, and Raju S P

	Refractive Eye Surgery Recommendations.			
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2. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programs attended

Sl. No.	FDPs	Duration	Organized By
1.	Nanomaterial and Energy Storage Sustainable Future	6days	All India Council for Technical Education - Atal
2.	Recent Advanced Functional Materials and Sustainable Development	5days	Prathyusha Engineering College- Department of Physics
3.	Innovations in Material Science & Engineering for Promoting Sustainability- 2025	5days	Don Bosco Institute of Technology
4.	EICT-Quantum Technologies and Applications -01	Feb 28-March 22	Electronics and ICT Academies, MNIT,Jaipur
5.	EICT- Foundations of Quantum Technologies-02	April 11- May 3	
6.	EICT- Basics of Quantum Programming-03	May 16- June 7	
7.	EICT- Basics of Quantum Programming-04		
8.	EICT- Quantum Computation-05	July 11- August 2	
9.	EICT- Quantum Communication-06	August 18- September 11	
10.	EICT- Quantum Sensing-07	September 26- October 17	
11.	EICT- Quantum Materials-08	March 9 - April 02, 2026	
12.	EICT- Engineering Foundations of Quantum Technologies-09	April 10 - May 02, 2026	
13.	EICT- Solid State Physics for Quantum Technologies-10	May 08 - May 30, 2026	
14.	EICT- Quantum Optics-11	June 05 - June 29, 2026	
15.	Sustainable Materials and Manufacturing: Paving the Way for a Circular Economy	6Days	Kamaraj College of Engineering and Technology
16.	Advanced Manufacturing and Materials Systems: Processing, Characterization and Testing	5Days	Ramco Institute of Technology

3. 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	Frontiers in Nanoscience and Technology	27th august 2014	Dept of Physics, Govt. Science College, Bangalore.	National seminar
2	Advances in The Physics of Dielectrics with Applications	2nd March 2013	MES degree college Bangalore	National workshop
3	“Role of A Women Teacher in Indian Education System”	12th March 2016	RV Teachers’ College, Bangalore.	National Conference
4	Adolescent Mental Health Awareness Programme	24th March 2016	MES teachers’ college Bangalore.	National Workshop
5	Quality Teachers’ Training	26th April 2016	MES Teachers’ college, Bangalore.	National Conference
6	Workshop of National Mathematics Day	22nd Dec 2017	Central College, Bangalore.	National Workshop
7	Hands on Training on XRD, FTIR	March 20 2024	CIIRC, Bangalore	Traning
8	Hands on Training on SEM, TGA	Feb-15 2024	CIIRC, Bangalore	Traning
9	Quantum Technologies	June 26- 27 2025	IISc, Bangalore	Workshop
10	Advancing Nanoparticle Characterization and Resistivity Modeling: A Comparative Analysis of ChatGPT-4o and ImageJ Software	March 21-22, 2025	Poornima University	International Conference
11	Enhancing Patient Health Management and Surgical Decision-Making: A Comparative Study of ChatGPT 4o, My	March 21-22, 2025	Poornima University	International Conference

	GPT, and Gemini Advanced in Refractive Eye Surgery Recommendations.			
12	Metal Salt Doped PVA Films for Advanced Packaging Applications: A Study on Optical and Electrical Properties	April 3-4, 2025	SIT, Mangalore	International Conference
13	Quantum-fractal Colour Masked QR Codes on Mgcl ₂ -doped PVA: A Biodegradable, Entropy-anchored Anti-counterfeiting Platform	July 31-August 1, 2025	QIB , Bangalore	International Conference
14	AI-Assisted Analysis of Electrochemical Impedance Spectra of Salt-Doped PVA Films	Sep- 8 2025	CMPA,Manipal	International Conference
15	Empowering Polymer Research with Artificial Intelligence: Data Extraction and Characterization of Doped PVA Films Using ChatGPT-5.1 and Gemini Advanced	Sep- 8 2025	CMPA,Manipal	International Conference
16	Salt-Doped Polyvinyl Alcohol Films for Sustainable Packaging Applications: Investigation of Optical and Electrical Characteristics	16th & 17th March 2026	DVS College of Arts, Science and Commerce, Shimoga	National Conference

