



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. PRATHAP P B
2.	Qualification	BE, M-Tech, PhD
3.	Date of joining the service at MCE	19/08/2013
4.	Department	Electronics and Communication
5.	Current Designation & Experience in MCE	Associate Professor & 12 years
6.	Teaching Experience: P.G.(in Years): U.G.(in Years):	U. G. : 12 Years
Research Experience (in Years)		
7.	a) Total Number of years: 5 b) Years spent in M. Phil. / Ph.D. : 5 c) Years of Guiding Ph.D. / M. Phil. : NIL d) Total No. of papers Published in i. International Journals: 06 ii. National Journals: 01 iii. Conference Proceedings: 3 e) Total No. of Conferences/Seminar/Workshop Attended i. International: NIL ii. National: 25 iii. State Level : NIL	
8.	Awards /Prizes/ Honor's / Recognitions	Session Chair, Coordinator in National Symposium, Organizing Co-Chair in IEEE International Conference (MYSORECON)
9.	Fields of Specialization under the Subject / Discipline	Photonics
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	IUCEE

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	Gold- Encapsulated Self-Compensating Tilted Fiber Bragg Grating for peak tracking based biosensing applications	Journal of Optics (Springer) https://doi.org/10.1007/s12596-023-01369-6	12596-023-01369-6
2.	Quantifying efficacy of the fiber bragg grating sensors in medical applications: a survey	Journal of Optics (Springer) https://doi.org/10.1007/s12596-023-01480-8	12596-023-01480-8
3.	Multilayer coating- assisted gold- encapsulated tilted fiber Bragg grating biosensor design	Journal of Optics (Springer) https://doi.org/10.1007/s12596-024-01711-6	12596-024-01711-6
4.	Fiber Bragg grating as a temperature sensor for human body temperature monitoring	Journal of Optics (Springer) https://doi.org/10.1007/s12596-024-01894-y	s12596-024-01894-y
5.	Detection of tuberculosis using 2-D photonic crystal-based biosensor	Manipal Journal of Science and Technology(ELSEVIER) https://impressions.manipal.edu/mjst/vol9/iss1/5	Manipal J. Sci. Tech., vol.9(1), 30-33, 2024
6.	SiO ₂ -Au-GO Based 2D Photonic Crystal Biosensor For Protein Analysis And Immunological Evaluation	Journal of Optics (Springer) https://doi.org/10.1007/s12596-024-01993-w	s12596-024-01993-w
7.	Gold-Encapsulated Self-Compensating Tilted Fiber Bragg Grating Biosensor for Clinical Decisions	2023 IEEE International Conference on Next Generation Electronics (NEleX 2023) DOI: 10.1109/NELEX59773.2023.10421412	979-8-3503-1908-8/23

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.	Carried out all department activities as assigned by the Head of the Department.
2.	Faculty Advisor https://impressions.manipal.edu/mjst/vol9/iss1/5
3.	BOE Member
4.	NBA Work
5.	NIRF Work
6.	Mentor
7.	Anti-Ragging Committee member
8.	Department Time-Table coordinator
9.	Admission duty
10.	Department Library coordinator.
11.	Have guided more than 20 UG projects.

3. Details of Teaching Related Activities

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
1.	2013-14	B.E	Embedded System Design, Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab
2.	2014-15	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, Microprocessors and Peripherals, Microprocessors and Peripherals Lab
3.	2015-16	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, Microprocessors and Peripherals, Microprocessors and Peripherals Lab
4.	2016-17	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, Microprocessors and Peripherals, Microprocessors and Peripherals Lab
5.	2017-18	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, Advanced Microprocessors and Peripherals, Microprocessors and Peripherals Lab
6.	2018-19	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, Microcontroller Lab
7.	2019-20	B.E	Communication Laboratory, MEMS(Elective) HDL Laboratory, Analog Electronics Circuits
8.	2020-21	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, E-Waste Management, Communication Laboratory, Linear ICs and Applications
9.	2021-22	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, E-Waste Management, Communication Laboratory, ,IoT Laboratory
10.	2022-23	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, E-Waste Management, Advanced Communication Laboratory
11.	2022-24	B.E	Basic Electronics, Analog Electronics Circuits, Analog Electronics Circuits Lab, Analog Communication and Switching Systems, Advanced Communication Laboratory

4. Professional Development Activities

Professional Development Activities		
	Membership in profession related committees at state and national level a) At International b) At national level: c) At state :	NIL
	Participation in subject associations, conferences, seminars without paper presentation	NIL
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	YES
	Membership/participation in State/Central Bodies/Committees on Education, Research and National Development	NIL
	Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television Programmes	YES
	Invited Expert Talks	NIL

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

2. Published Papers in Journals

Sl. No.	Title	Journal with Vol. Year & Page No.	ISSN / ISBN No.	Whether peer reviewed.	No. of Co-authors	Whether you are the main author
1.	Gold- Encapsulated Self-Compensating Tilted Fiber Bragg Grating for peak tracking based biosensing applications	Journal of Optics (Springer) https://doi.org/10.1007/s12596-023-01369-6	12596-023-01369-6	Yes	1	Yes
2.	Quantifying efficacy of the fiber bragg grating sensors in medical applications: a survey	Journal of Optics (Springer) https://doi.org/10.1007/s12596-023-01480-8	12596-023-01480-8	Yes	1	Yes
3.	Multilayer coating- assisted gold- encapsulated tilted fiber Bragg grating biosensor design	Journal of Optics (Springer) https://doi.org/10.1007/s12596-024-01711-6	s12596-024-01711-6	Yes	1	Yes
4.	Fiber Bragg grating as a temperature sensor for human body temperature monitoring	Journal of Optics (Springer) https://doi.org/10.1007/s12596-024-01894-y	s12596-024-01894-y	Yes	1	Yes
5.	Detection of tuberculosis using 2-D photonic crystal-based biosensor	Manipal Journal of Science and Technology(ELSEVIER) https://impressions.manipal.edu/mjst/vol9/iss1/5	https://impressions.manipal.edu/mjst/vol9/iss1/5	Yes	1	Yes
6.	SiO ₂ -Au-GO Based 2D Photonic Crystal Biosensor For Protein Analysis And Immunological Evaluation	Journal of Optics (Springer) https://doi.org/10.1007/s12596-024-01993-w	s12596-024-01993-w	Yes	2	Yes
7.	Gold-Encapsulated Self-Compensating Tilted Fiber Bragg Grating Biosensor for Clinical Decisions	2023 IEEE International Conference on Next Generation Electronics (NEleX 2023) DOI: 10.1109/NELEX59773.2023.10421412	DOI: 10.1109/NELEX59773.2023.10421412	Yes	4	Yes

3. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	Summer school in Optics and Photonics (SOAP)	4days	IISc, Bengaluru
2.	MEMS & MOEMS	One Week	MCE, Hassan
3.	Machine Learning	One Week	MCE, Hassan
4.	Feel Teacher	One Week	MCE, Hassan
5.	Recent advances in Photonics	One Week	JEC, ASSAM
6.	Total Quality Management	One Week	MCE, Hassan
7.	Challenges and opportunities in VLSI and Technology	One Week	NIT Hamirpur
8.	Recent Technological Innovations In Optical Engineering	One Week	MCE, Hassan
9.	Storage Area Networks and Data Management	One Week	MCE, Hassan
10.	Digital Transformation In Teaching Learning Process	Two Weeks	Online
11.	Salesforce by ICT Academy	One Week	MCE, Hassan
12.	Iucee International Engineering Educator Certification Program Spring 2022	6 Months (Course)	Online
13.	Cyber Security Under Microsoft Cyber shiksha for Educators	Two Weeks (Course)	Online
14.	21 Days Refresher Course On Technology Management In Education	21 Days	Online
15.	An Overview Of Teaching Techniques In Basics Of Electronics And Communication Engineering	One Week	Online
16.	Quantom and Photonics	One Week	MCE, Hassan