



# 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. HEMANTH KUMAR B M
2.	Qualification	M.Tech, PhD
3.	Date of joining the service at MCE	31-08-2013
4.	Department	Electronics and Communication Engineering
5.	Current Designation & Experience in MCE	Assistant Professor, 10 years
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	11 years in U.G
Research Experience (in Years)		
7.	a) Total Number of years: 5 years b) Years spent in M. Phil. / Ph.D.: 5 Years c) Years of Guiding Ph.D. / M. Phil.: Nil d) Total No. of papers Published in i. International Journals: 02 ii. National Journals: 02 iii. Conference Proceedings: 04 e) Total No. of Conferences/Seminar/Workshop Attended i. International :02 ii. National:02 iii. State Level	
8.	Awards /Prizes/ Honor's / Recognitions	Nil
9.	Fields of Specialization under the Subject / Discipline	Microcontroller, Photonics, Communication
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	45

## **PART-B**

### **1. List of Publications:**

<b>Sl. No.</b>	<b>Title</b>	<b>Name of the Journal, Vol. No., Year</b>	<b>ISSN/ISBN/Number</b>
<b>1.</b>	A novel computation method for detection of Malaria in RBC using Photonic biosensor	International Journal of information technology.	2053–2058
<b>2.</b>	Si/SiO <sub>2</sub> Based Nano-cavity Biosensor for Detection of Anemia, HIV and Cholesterol Using Refractive Index of Blood Sample	Indian Journal of Science and Technology	0974 - 6846

### **2. Responsibilities in the Department and Institute / University:**

<b>Sl.No</b>	<b>Responsibilities</b>
1.	NBA Department Coordinator
2.	NAAC Department Coordinator
3.	BOS, BOE member
4.	Anti-Ragging
5.	Department Library Coordinator
6.	Scholarship E-attestation Officer

### **3. Details of Teaching Related Activities**

<b>Sl. No.</b>	<b>Academic Year</b>	<b>(B. E/M.Tech)</b>	<b>Course Title</b>
<b>1</b>	2013-14	B.E	Logic Design, Operation Research, DSP, Basic Electronics
<b>2</b>	2014-15	B.E	Signals and systems, Digital Communication, Control systems, Basic Electronics
<b>3</b>	2015-16	B.E	Microcontroller, Digital Communication, VHDL
<b>4</b>	2016-17	B.E	Microcontroller, Digital Communication, Communication systems, VHDL
<b>5</b>	2017-18	B.E	Communication systems, Microcontroller, Basic Electronics
<b>6</b>	2018-19	B.E	Basic Electronics, Digital Communication, Microcontroller
<b>7</b>	2019-20	B.E	Basic Electronics, Microcontroller
<b>8</b>	2020-21	B.E	Digital Communication, Embedded system Design, Microcontroller, Basic Electronics
<b>9</b>	2021-22	B.E	Digital Communication, Sensors and Actuators, Microcontroller, OOPS
<b>10</b>	2022-23	B.E	Digital Communication, Satellite Communication, Microcontroller, Embedded systems

## **PART-C**

### **RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS**

#### **1. Published Papers in Journals**

<b>Sl. No.</b>	<b>Title</b>	<b>Journal with Vol. Year &amp; Page No.</b>	<b>ISSN / ISBN No.</b>	<b>Whether peer reviewed. Impact factor, if any</b>	<b>No. of Co-authors</b>	<b>Whether you are the main author or Guide / mentor</b>
1	A novel computation method for detection of Malaria in RBC using Photonic biosensor	International Journal of Information Technology Vol-13, 2053–2058 (2021)	2053–2058	Yes	2	Main author
2	Si/SiO <sub>2</sub> Based Nano-cavity Biosensor for Detection of Anemia, HIV and Cholesterol Using Refractive Index of Blood Sample	Indian Journal of Science and Technology Year: 2022, Volume: 15, Issue: 18, Pages: 899-907	0974 - 6846	Yes	2	Main author

#### **2. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes:**

<b>Sl. No.</b>	<b>Name of Course/Summer/Winter School</b>	<b>Duration</b>	<b>Organized By</b>
1.	ADVANCED COMMUNICATION SYSTEMS	One week	Lakireddy Bali Reddy College of Engineering, Andhra Pradesh
2.	IUCEE INTERNATIONAL ENGINEERING EDUCATOR CERTIFICATION PROGRAM	6 Months	IUCEEP, USA.
3.	An Overview of Teaching Techniques in Basics of Electronics and Communication Engineering	One week	VTU-VIAT, Muddenahalli, Chikkaballapur
4.	Quantum and Photonics	One week	MCE, Hassan
5.	Creating Smart and Green Society	One	MCE, Hassan

	through Advance Technology of Green Energy	week	
6.	Green, Smart, 5G communication	One week	MCE, Hassan

### 3. Papers presented in Conferences, Seminars, Workshops, Symposia

Sl. No.	Title	Title of Conference/Seminar etc.	Dates of the Event	Organized by	Whether International/National/State/Regional/University /College Level
1	2D Photonic Crystal based Biosensor for detection of Cervical Cell	2020 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)	5-04-2020	GITAM, Bengaluru	International
2	Multiple Diseases Detection by Novel Computation Method using 2D Photonic Biosensor	8th International Conference on "Computing for Sustainable Global Development",	22-05-2020	BVICAM, New Delhi (INDIA),	International
3	Detection of Dengue using Photonic Biosensor	8th International Conference on "Computing for Sustainable Global Development",	22-05-2020	BVICAM, New Delhi (INDIA),	International