



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(inBlockLetters)	Dr INDIRA BAHADDUR
2.	Qualification	BE MTECH PHD
3.	Date of joining the service at MCE	12.09.2005
4.	Department	ELECTRONCS AND COMMUNICATION ENGINEERING
5.	Current Designation & Experience in MCE	ASSISTANT PROFESSOR & 18
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	10 18
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	8 8 01 18 03 15 05
8.	Awards /Prizes/ Honor's / Recognitions	Best conference paper
9.	Fields of Specialization under the Subject / Discipline	Digital electronics ,information coding, cryptography, network security, embedded system, nano electronics
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	34

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number	
1.	A Design And Simulation Of Optical Pressure Sensor” Vol.4 , Issue 2,pp 20-27, April-June 2014. Rajeshwari S, [2]IndiraBahaddur, [3]Dr. PreetaSharan, [4]Dr. P C Srikanth	International Journal of Electronics and Communication Engineering Research and Development(IJECERD)	Vol.4 , Issue 2,pp 20-27, April-June 2014 ISSN 2248-9525(print) ISSN 2248-9533(online)	
2.	MEMS Based Optical Sensor for Salinity Measurement” Vol.4 , Issue 2,pp 1-4, April-June 2014. Shruthimala N S, Indira Bahaddur, PreetaSharan, P C Srikanth	International Journal of Electronics and Communication Engineering Research and Development(IJECERD)	Vol.4 , Issue 2,pp 1-4, April-June 2014. ISSN 2248-9525(print) ISSN 2248-9533(online)	
3.	“Modeling Of Photonic Crystal Ring Resonator Temperature Sensor” Vol.4 , Issue 2,pp 83-88, April-June 2014. Mallika C S,Indira Bahaddur, PreetaSharan, P C Srikanth	International Journal of Electronics and Communication Engineering Research and Development(IJECERD)	Vol.4 , Issue 2,pp 1-4, April-June 2014. ISSN 2248-9525(print) ISSN 2248-9533(online)	
4.	Indira Bahaddur1*, Preetha Sharan2 and P. C. Srikanth “Photonic Crystal Based Micro Mechanical Sensor in SOI Platform”	Universiti Putra Malaysia Press .Pertanika J.Sci. & Technol. 26 (3): 1481 - 1488 Journal homepage: http://www.pertanika.upm.edu.my/	(June 2018)	ISSN: 0128-7680 © 2018
5.	Jnapana H S, Indira Bahaddur, Dept. of E&C, MCE Hassan, Karnataka, “ARM CORTEX M3 BASED INDUSTRIAL AUTOMATION USING LABVIEW	“International Journal of creative Research thoughts” (PAPER ID : IJCRT 1872356 Registration ID 184038 Volume 6 Issue 1 pp:1214-1218 :	March 2018	ISSN: 2320-2882
6.	Syeda Afreen Mairaj, Indira Bahaddur, Dept. of E&C, MCE Hassan, Karnataka, “Continuous Authentication Using Wearable Medical Sensors “,International Research Journal of Engineering and Technology	(IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 03 www.irjet.net Page 2977	Mar-2018	e-ISSN: 2395-0056

7	Indira Bahaddur , P.C.Srikanth Ponnathapur, PreetaSharan “ Photonic crystal ring resonator based pressure sensor for under water low pressure Detection ” JETIR December 2018, Volume 5, Issue 12 www.jetir.org (ISSN-2349-5162)pp:248-254	JETIR December 2018, Volume 5, Issue 12 www.jetir.org (ISSN-2349-5162)pp:248-254	December 2018	ISSN-2349-5162
8	Tejaswini M R, Indira Bahaddur , P.C.Srikanth “High Quality Factor 2D Photonic Crystal Based Pressure Sensor” IJREAM, ISSN 2454-9150, Vol 05, Issue-03, June 2019.	IJREAM ,ISSN 2454-9150, Vol 05, Issue-	03, June 2019.	ISSN 2454-9150
9	Indira Bahaddur , Kavana K V, Dr P C Srikanth, , “Malignancy Cells Discovery Utilizing Photonic Crystal Based Biosensor	International Journal of Engineering Research And Management (IJERM) ISSN: 2349-2058, Volume-07, Issue-07	July 2020	ISSN: 2349-2058,
10	Venkatesvara rao kollo, Indira Bahaddur A High Q-factor Photonic Crystal Microring-resonator based Pressure Sensor”, Photonics and Nanostructures - Fundamentals and Applications ,	ELSEVIER https://doi.org/10.1016/j.photonics.2020.10.0870		

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.	Warden 2015 to 2018
2.	Hostel administrator 2016 to 2018
3.	Chirman CICC from 30.08.2021

3. **Details of Teaching Related Activities**

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title

Professional Development Activities		
Membership in profession related committees at state and national level a) At International b) At national level: c) At state :		<ul style="list-style-type: none"> • IEEE senior member • IEEE Photonic society member • ISTE life member • OSA membership
Participation in subject associations, conferences, seminars without paper presentation		--
Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance		--
Membership/participation in State/Central Bodies/Committees on Education, Research and National Development		--
Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television programmes		--
Invited Expert Talks		--

PART-C

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

1. Published Papers in Journals

Sl. No	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1	<p>A Design And Simulation Of Optical Pressure Sensor" Vol.4 , Issue 2,pp 20-27, April-June 2014. Rajeshwari S, [2]IndiraBahaddur, [3]Dr. PreetaSharan, [4]Dr. P C Srikanth</p>	International Journal of Electronics and Communication Engineering Research and Development(IJECERD)	<p>Vol.4 , Issue 2,pp 20-27, April-June 2014 ISSN 2248-9525(print) ISSN 2248-9533(online)</p>

2	<p>MEMS Based Optical Sensor for Salinity Measurement</p> <p>Vol.4 , Issue 2,pp 1-4, April-June 2014.</p> <p>Shruthimala N S, Indira Bahaddur, PreetaSharan, P C Srikanth</p>	<p>International Journal of Electronics and Communication Engineering Research and Development(IJECERD)</p>	<p>Vol.4 , Issue 2,pp 1-4, April-June 2014. ISSN 2248-9525(print)</p> <p>ISSN 2248-9533(online)</p>
3	<p>“Modeling Of Photonic Crystal Ring Resonator Temperature Sensor”</p> <p>Vol.4 , Issue 2,pp 83-88, April-June 2014.</p> <p>Mallika C S,Indira Bahaddur, PreetaSharan, P C Srikanth</p>	<p>International Journal of Electronics and Communication Engineering Research and Development(IJECERD)</p>	<p>Vol.4 , Issue 2,pp 1-4, April-June 2014. ISSN 2248-9525(print)</p> <p>ISSN 2248-9533(online)</p>
4	<p>Indira Bahaddur1*, Preetha Sharan2 and P. C. Srikanth</p> <p>“Photonic Crystal Based Micro Mechanical Sensor in SOI Platform”</p>	<p>Universiti Putra Malaysia Press .Pertanika J.Sci. & Technol. 26 (3): 1481 - 1488 Journal homepage: http://www.pertanika.upm.edu.my/</p>	<p>(June 2018)</p> <p>ISSN: 0128-7680 © 2018</p>
5	<p>Jnapana H S, Indira Bahaddur, Dept. of E&C, MCE Hassan, Karnataka, “ARM CORTEX M3 BASED INDUSTRIAL AUTOMATION USING LABVIEW</p>	<p>“,International Journal of creative Research thoughts” (PAPER ID : IJCRT 1872356 Registration ID 184038 Volume 6 Issue 1 pp:1214-1218 :</p>	<p>March 2018</p> <p>ISSN: 2320-2882</p>
6	<p>Syeda Afreen Mairaj, Indira Bahaddur, Dept. of E&C, MCE Hassan, Karnataka, “Continuous Authentication Using Wearable Medical Sensors “,International Research Journal of Engineering and Technology</p>	<p>(IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 03 www.irjet.net Page 2977</p>	<p>Mar-2018</p> <p>e-ISSN: 2395-0056</p>
7	<p>Indira Bahaddur,P.C.SrikanthPonnathapur, PreetaSharan “Photonic crystal ring resonator based pressure sensor for under water low pressure Detection” JETIR December 2018, Volume 5, Issue 12</p>	<p>JETIR December 2018, Volume 5, Issue 12 www.jetir.org (ISSN-2349-5162)pp:248-254</p>	<p>December 2018</p> <p>ISSN-2349-5162</p>

	www.jetir.org (ISSN-2349-5162)pp:248-254			
8	Tejaswini M R,Indira Bahaddur ,P.C.Srikanth “High Quality Factor 2D Photonic Crystal Based Pressure Sensor”IJREAM ,ISSN 2454-9150,Vol 05,Issue-03,June 2019.	IJREAM ,ISSN 2454-9150,Vol 05,Issue-	03,June 2019.	ISSN 2454-9150
9	Indira Bahaddur , Kavana K V, Dr P C Srikanth, , “Malignancy Cells Discovery Utilizing Photonic Crystal Based Biosensor	International Journal of Engineering Research And Management (IJERM) ISSN: 2349- 2058, Volume-07, Issue-07	July 2020	ISSN: 2349-2058,
10	Venkatesvara rao kollo,Indira Bahaddur A High Q-factor Photonic Crystal Microring-resonator based Pressure Sensor”, Photonics and Nanostructures - Fundamentals and Applications ,	ELSEVIER https://doi.org/10.1016/j.photonics.2020.100870		

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

iv.

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	One week TEQIP sponsored Faculty development program on “Challenges in Non-conventional energy sources ”	One Week 9 th to 13 th April 2018	Dept. of Automobile Engineering, MCE,Hassan
2.	One week TEQIP sponsored Faculty development program on “Total Quality Management ”	One Week 28 th May to 1 st June 2018	Dept. of IP Engineering, MCE,Hassan
3.	AICTE sponsored Two weeks Faculty Development Program on “Machine Learning, Artificial Intelligence in Image Processing using MATLAB and Xilinx System Generator for DSP”.	Two weeks From 22.07.2019 to 03.08.2019	Dept. Of Electronics and Communication Engg., Kalpataru Institute of Technology, Tiptur.
4.	AICTE sponsored Two weeks Faculty Development Program on “Green,Smart,5G Technologies” from 9 th to 21 st December 2019 sponsored by AICTE and organized by Dept. of ECE,MCE,Hassan	Two weeks from 9 th to 21 st December 2019	Dept. Of Electronics and Communication Engg., MCE,Hassan
5.	One week online certificate course on “Digital Teaching Techniques” organized by ICT Academy from 29 th June 2020 to 4 th July 2020.	One week 29 th June 2020 to 4 th July 2020.	ICT Academy
6.	Online Faculty Development Programme on “Quantum Computing” Jointly Organized by Electronics & ICT Academy MNIT Jaipur, Electronics & ICT Academy NIT Patna, Electronics & ICT Academy PDPM IIIT DM Jabalpur	One week 24 – 29 August 2020	Electronics & ICT Academy MNIT Jaipur, Electronics & ICT Academy NIT Patna, Electronics & ICT Academy PDPM IIIT DM Jabalpur
7.	One week online certificate course on “Recent Advances in Photonics Technology” organized by Department of Electronics and Communication Engineering, Vidyavardhaka College of Engineering, Mysuru in association	One week 7 th to 11 th September 2020.	Vidyavardhaka College of Engineering, Mysuru in association with

	with IEEE Photonics Society, Prakash Bharathi from 7th to 11th September 2020.		IEEE Photonics Society, Prakash Bharathi
8.	One week AICTE sponsored Phase 1 of online Short-Term Training Program (STTP) on the title “Creating Smart and Green Society through Advance Technology of Green Energy” Held during 10 th – 15 th December, 2020 at Malnad College of Engineering, Hassan, Karnataka	One week 10 th – 15 th December, 2020	AICTE
9.	One week AICTE sponsored Phase 2 of online Short-Term Training Program (STTP) on the title “Creating Smart and Green Society through Advance Technology of Green Energy” Held during 17 th – 22 nd December, 2020 at Malnad College of Engineering, Hassan, Karnataka.	One week 17 th – 22 nd December, 2020	AICTE
10.	Aicte Sponsored One Week Short Term Training Programme On “Empowering Moral Values , Ethics And Behavioral Attitude In Teaching Skills Among Teachers (Phase-I)” Organized by Department of Electronics and Communication Engineering Dr. N.G.P. INSTITUTE OF TECHNOLOGY; COIMBATORE-48 Industrial Training at GTTC Mysuru from 24.01.2022 to 04.02.2022.	One week January 18-23, January 2021.	AICTE
11.	Two weeks Industrial Training at Govt.Tools and Training Centre Mysuru	from 24.01.2022 to 04.02.2022.	Govt.Tools and Training Centre Mysuru

Faculty Development Programmes conducted:

1. Faculty Development Programme on “Recent advances in Mechatronics Engineering and Application” at MCE, Hassan.30-31 May 2013.
2. Faculty Development Programme on “Emerging trends in optical Communication and Engineering” at MCE, Hassan **by IEEE Photonic society (USA),Karnataka section. Conducted at MCE,Hassan.01-02 June 2013.**
3. One week Faculty Development on “Recent Technological Innovations in Optical Engineering “(14TH to 18th July, 2014), Sponsored by TEQIP-II and technically cosponsored **by IEEE Photonic society (USA),Karnataka section. Conducted at MCE,Hassan.**
4. One day Work shop on “ **India’s achievement in space technology and social development in technical education**” on 16th October , 2014, Sponsored by Malnad College of Engineering ,Hassan.
5. One day workshop on "MOEMS and Applications" on **18th March 2017 at Dept of ECE,MCE,Hassan**Sponsored by TEQIP-II.
6. One day workshop on "**High speed optical Networks**" on 21st March 2017 at Dept of ECE,MCE,HassanSponsored by TEQIP-II.

1. 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 Level
1	“High Q factor 2D PC Microcavity Ring Resonator for Biomedical applications”	ICAIT 2019,organized by Dept of Computer Science and Engineering,AITChikkamagaluru during 25 th -27 th July 2019.(won the Best Paper Award in this conference)	25 th -27 th July 2019	AITChikkamagaluru	International
2	“2D Photonic Crystal Cantilever Resonator Pressure Sensor”	”,SP021 IEEE WRAP-2019 at IIT Guwhati ,13-14 December 2019.	13-14 December 2019.	IEEE WRAP-2019 at IIT Guwhati	International

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