

# Curriculum–Vitae

Dr. SanjayKumar C. Gowre  
Professor & Dean (Academics), BKIT Bhalki

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**Objective:** A full-time position in teaching field that requires expertise in one or more of the following areas: Optical fiber communication, satellite communication, advanced computer system architecture, networks and research work in the field of Photonics, Optical Burst Switching (OBS), Fiber Bragg Grating (FBG), and Optical Circuit Switched Polymorphic Networks (OCSPN).

## Academic Identity:-

**Orcid ID:** - 0000-0003-1427-2640

Scopus Author ID: - 16401166700

Researcher ID: - **AAA-2905-2020**.

Google Scholar ID: - b2Vv3usAAAAJ&hl=en

Vidwan ID:- 244420

Google Scholar  
60 citations  
06 H-Index, 01 I10-index

Scopus  
38 Citations  
04 H-Index

Web of Science  
22 citations &  
04 H-Index

51  
Publications

03  
Sponsored Projects

02  
PhD Completed

07  
Doctoral Students

04  
Awards

30  
STTP/FDP

02  
Books

01  
Patent

20  
Conf./Workshops/STC

01  
Course Expert

25  
Guest Lecture/Expert talks

**Ongoing Projects with details: -**

S. No	Name of the project	Funding agency	Sanctioned amount	Duration	Status	PI/CO-PI
1	<b>DESIGN &amp; DEVELOPMENT OF GAP-COUPLED PLANAR MICROSTRIP ANTENNA FOR WLAN, WI-MAX &amp; BLUETOOTH APPLICATIONS</b>	<b>VGST Bengaluru</b>	<b>15 Lacs</b>	<b>02 YEARS</b>	<b>ON GOING</b>	<b>CO-PI</b>
2	<b>PHOTONIC DEVICES FOR OPTICAL NETWORKS</b>	<b>VTU BELGAUM</b>	<b>10 LACS</b>	<b>3 YEARS</b>	<b>Completed</b>	<b>PI</b>
3	<b>DESIGN OF PHOTONIC COMMUNICATION SYSTEM</b>	<b>VGST Bengaluru</b>	<b>20 LACS</b>	<b>2 YEARS</b>	<b>Completed</b>	<b>PI</b>
4	<b>GRAM PANCHAYAT DEVELOPMENT PLAN</b>	<b>UNNAT BHARAT ABHIYAN, DELHI</b>	<b>0.5 LACS</b>	<b>1 YEAR</b>	<b>Completed</b>	<b>PI</b>

**Education:**

- **Ph.D.** in E&ECE Department, **Indian Institute of Technology Kharagpur, India, 2013.**  
Thesis: “**Design of All-Glass Photonic Crystal Geometry for Telecommunication and Sensor Applications**”
- **Master of Technology (M.Tech.)** with **Fiber Optics & Lightwave Engineering** specialization, in May 2006 from , **Indian Institute of Technology Kharagpur, India**

**C.G.P.A:** Year basis on scale of 10

I SEM: 8.83, II SEM: 9.04, III SEM: 10, IV SEM: 10

In aggregate: 9.39

**Thesis: “Design and Simulation of Dispersion Flattened Endlessly Single Mode Fiber for Optical Communication”**

**Photonic Crystal Fiber (PCF)** is the new and emerging fiber in today’s optical communication area. It has many unique properties such as **Endlessly Single Mode (ESM)** and unusual **dispersion** property, which are not possible with conventional optical fiber.

In our project work, we designed a fiber which can work in single mode regime for any wavelength of interest and also designed optimized dispersion property for the optical communication.

- **Bachelor of Engineering (BE) in Electronics and Communication Engineering (ECE)** in July 95 from **PDA College of Engineering**, Gulbarga, Gulbarga University, Gulbarga. Karnataka state.

**Percentage:** 62%

Thesis: “**Microprocessor based Aquameter using the Microwaves**”

As agriculture products are to be preserved for the emergency, it is necessary to measure the moisture content in food grains before storing.

In our project, we designed a method by which it is very easy to calculate the moisture content using the microwaves. We used the microprocessor for recording permitted level of moisture in food grains.

#### **Awards:**

1. **Research grant of Rs. 20 lacs from VGST Bengaluru for a period of 2 years on “DESIGN OF PHOTONIC COMMUNICATION SYSTEM”**
2. **Research grant of Rs. 10 lacs from VTU Belgaum for a period of 3 years on “PHOTONIC DEVICES FOR OPTICAL NETWORKS”**
3. **Award of IEEE ICIIS-2007 grant, Peradeniya University, Kandy, Sri-Lanka with registration grant of USD220.**
4. **Award of 9500/- per month scholarship for pursuing PhD at IIT Kharagpur.**

#### **Teaching/Industrial Experience:**

- Working as **Professor** in ECE department, BKIT Bhalki since Nov. 1999.
  - Subjects handled: Microcontroller, Basic Electronics, Optical Communication, Computer Communication & Networks, Linear Integrated Circuits, Microwave Circuits & Devices, Embedded System Design, Digital Communication and Advanced Microprocessor.
  - Labs handled: Electronics Circuits, Communication –I, Computer Communication & Networks, Microprocessor and Microcontroller.
  - Guided VI and VIII semesters Projects.
- Worked as **Lecturer** in Electronics department, GND Polytechnic Bidar from Sept.1998-Nov.1999.
  - Subjects handled: Power Electronics, and Communication-I.
  - Labs handled: Power Electronics

- Worked as **QC Engg** in Dhoot industries (Assembling unit of **Videocon** remote control) Aurangabad from Aug. 1995-Aug.1998.
  - Responsibilities: Checking the quality of the all materials being used in remote control, checking the quality of end product.
  - Looking after smooth running of the assembly unit.

**Technical Skills:**

Programming languages	: C.
Simulation Tools	: Fullwave, BandSOLVE, MATLAB, PSPICE, ORIGIN, and ImageJ.
Processors & Microcontroller Platforms	: 8085, 8086, 8051.
Operating system	: Ms-WindowsNT/2000/XP, and Linux

**Research Interest:**

1. **Photonic Crystal Fiber**
2. **Photonic Devices for Optical Networks**
3. **Optical Burst Switching**
4. **Optical Circuit Switched Polymorphic Network**
5. **Fiber Bragg Grating**
6. **Sensors**

**Supporting Skills:**

- Excellent communications skills, both oral and written.
- Teaching/presentation

**PhD. Students:-**

1. **Number of students completed the PhD=02**
2. **Guiding =06**
3. **Co Supervision =02 (NIT Patna)**

**Patents:-**

1. **“Design & Development of Miniaturized 2x1 square array of Micro-strip Textile Antenna using jean as dielectric material & operating at 1.9642GHz & 2.45GHz with gain of 10dBi & 8.07dBi used for wireless application” Reference number 201921033981 dated 26/02/2021.**

## Publications

### Books:-

1. Dispersion Flattened & Endlessly Single Mode Photonic Crystal Fiber, LAP LAMBERT Academic Publishing; 1 edition (2017), **ISBN-10:** 6202065109, **ISBN-13:** 978-6202065108
2. All-Glass Photonic Crystal Geometry for Telecom & Sensor Applications, LAP LAMBERT Academic Publishing; 1 edition (2017), **ISBN-10:** 9783659815546, **ISBN-13:** 978-3659815546

### International Journal: -

1. Hameed Miyan, Rajan A, Sanjaykumar Gowre, Manpuran M, P K Jain, "Computation Study of a Compact and High Sensitive Photonic Crystal for Cancer Cells Detection", IEEE Sensor Journal. (IF=3.301, SJR=0.68, Q1)
2. H.K. Bhalidar, **Sanjay Kumar Gowre**, Mainaz Ustad, "**Design of Circularly Polarized Compact Size Wearable Antenna for UWB and 5G Application**", **IETE Journal of Research, 2021**, (IF=1.125, SJR=0.22, Q3). **Accepted.**
3. Juhi Nishat Ansari, **Sanjaykumar C. Gowre**, Mahesh S, "**Photonic Crystal Based Rhombic Ring Resonator for Pressure Sensing**", **Design Engineering, Vol. 2021, Issue 08, 2021**(IF=1.41, SJR=0.1, Q4)
4. Savita Soma, **Sanjaykumar C. Gowre & Mahesh V**, "**Design of Two Dimensional Photonic Crystal based Ultra Compact Optical RS Flip Flop**", Photonic Communication Networks, 2021 ((IF=2.038, SJR=0.4, Q2)
5. H.K. Bhalidar, **Sanjay Kumar Gowre**, Mahesh Matpati, Ashish Jadhav, Mainaz Ustad, Pavan Mankal & Veerendra Dakulagi, "**Design of circular microstrip textile antenna for UWB application**", **IETE Journal of Research, 2021, 25/10/2021**(IF=1.125, SJR=0.22, Q3) <https://doi.org/10.1080/03772063.2021.1982416>
6. H.K. Bhalidar, **Sanjay Kumar Gowre**, Bhushan Bachute, Ashutosh Thorat Sameer Pathan, "Design of Compact Ultra-wideband Flexible MonopoleAntennas", IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), Volume 16, Issue 3 Ser. II (May – June 2021), PP 17-24. (IF=1.09, SJR=0.16, Q4)
7. H.K. Bhalidar, **Sanjay Kumar Gowre**, et al "Design of Wearable Multiband Circular Microstrip Textile Antenna for WiFi/WiMAX Communication", Engineering and Technology Journal e-ISSN:2456-3358, Volume 06 Issue 03March-2021,PageNo.-798-806, 2021
8. Pavan M, **Sanjaykumar C. Gowre & Veerendra D**, "A New DOA Algorithm for Spectral Estimation without Source Numbers Information",

- Wireless Personal Communications, Vol. Issue, page no 1-13, 2021 (IF=1.09, SJR=0.291, Q3)
9. Juhi Nishat Ansari, **Sanjaykumar C. Gowre**, Mahesh S. B. Gadgay & A. Roy, "Photonic nano dielectric crystal cavity with infiltrated biosamples for refractive index sensing application", *Integrated Ferroelectrics*, 213:1, 93-102, 2021. (SJR=0.24, Q3)
  10. Mahesh V Sonth, Savita Soma & **Sanjaykumar C Gowre**, "Investigation of light behavior of all optical full adders in two dimensional photonic crystals", Volume , Issue , *Microwave and Optical Technology Letters*, Vol. 63, Issue 4, pp. 1304-1308, 2020. (SJR=0.33, Q2)
  11. Husain Bhaladar, **Sanjay Kumar Gowre**, Mahesh S Mathpati, & Ashish A Jadhav, "Design of High Gain Wearable Rectangular Microstrip Textile Antenna for Wireless Application", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-9 Issue-5, March 2020. (SJR=0.1, Q4)
  12. Husain Bhaladar, **Sanjay Kumar Gowre**, " Design Of Miniaturized,Two Elements Design of MIMO Antenna with Patch Isolator", *International journal of scientific & Technology research* volume 9, Issue 02, February 2020 issn2277-8616.
  13. Shabana Tabassum & **Sanjaykumar Gowre**, "DE-Mosaicing using Matrix Factorization Iterative Tunable Method", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-9 Issue-1, November 2019. (SJR=0.1, Q4)
  14. Savita Soma, **Sanjaykumar C. Gowre & Mahesh V**, "Tunable Optical add/drop filter for CWDM systems using Photonic Crystal Ring Resonator" **Springers JEM**, Volume 48, Issues 11, pp. 7460-7464, 2019. (SJR=0.42, Q2)
  15. Mahesh V., **Sanjaykumar C. Gowre**, Nagshettappa Biradar & Baswaraj Gadgay, "Design & Simulation of AND-OR-INVERT Logic for Photonic Integrated Circuits" **Springer Lecture Notes**, 2019. (SJR=0.14, Q3)
  16. Savita Soma, **Sanjaykumar C. Gowre & Mahesh V**, "Realization of three input optical AND gate in a 2D photonic crystal", *International journal of research in electronics and communication engineering*, Vo. 7, issue 1, Jan-Mar-2019.
  17. Mahesh V., Savita Soma, **Sanjaykumar C. Gowre** and Nagashettappa Biradar, "Modeling and Optimization of Optical Half Adder in Two Dimensional Photonic Crystals" **Springers JEM**, Volume 47, Issue 7, pp 4136-4139, July 2018. (SJR=0.42, Q2)
  18. Savita Soma, Mahesh V. Sonth and **Sanjaykumar C. Gowre** "Implementation of Cascaded Logic Gate in a 2D Photonic Crystal", *Journal of Emerging Technologies and Innovative Research (JETIR)*, Vol. 5, No. 7, pp. 290-293, (2018)
  19. Mahesh V, **Sanjaykumar C Gowre**, Nagashetty Biradar and Sanjeev P. Gogga, "Analysis of All Optical Feynman and Majority Reversible gates

- Using 2D Photonic Crystals”, International Journal of Advance Engineering and Research Development, Volume 5, Issue 01, January -2018
20. Naveen Raga, **Sanjaykumar Gowre** & Hameed Miyan, “Lossy image compression using SVD algorithm”, Vol. 4, issue 4, pp. 427-434, IJMETMR, April 2017.
  21. Savita Soma and **Sanjaykumar Gowre**, “All optical NOT gate using modified photonic crystal platform, Vol. 4, Issue 3, pp. 83-86, International Journal of Engineering Research in Electronics & Communication Engineering (IJERECE), March 2017.
  22. Savita Soma and **Sanjaykumar Gowre**, “A Review on all optical Logic Gate using 2-D Photonic Crystal”, IJSRD, National Conference on Advances in Computing & Communication, Oct. 2016.
  23. **Sanjaykumar C. Gowre**, Nagashetty Biradar, Sanjeev Gogga & B Gadgay “Realization of Logic Gates using Modified 2 Dimensional Photonic Crystal”, IJSRD, October, 2016
  24. Nagashetteppa Biradar, M L Dewal, Manojkumar Rohit, **Sanjaykuamr Gowre** & Yogesh Gundge, “Blind source parameters for performance evaluation of despeckling filters”, Hindawi’s International Journal of Biomedical Imaging, vol 2016, article ID 3636017, (SJR=056, Q2)
  25. Saba Fatima, **Sanjaykumar Gowre**, Viswanath V. M., “**Low Power VLSI-Survey on Latest Power Management Technology**”, Journal of Electronic Systems, Volume 5 Number 1 March 2015
  26. Pooja P & **Sanjaykumar C. Gowre** “**Design of logic gates for realization of all-optical network using 2-D photonic crystals**” International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 14 Issue 2 –APRIL 2015. (1.012)
  27. **Sanjaykumar C. Gowre**, Sudipta Mahapatra, and P. K. Sahu, "A modified structure for all-glass photonic bandgap fibers: Dispersion characteristics and confinement loss analysis," Hindawi's ISRN Optics, Volume 2013, pp. 1-5, doi:10.1155/2013/416537. (Google Scholar)
  28. **Sanjaykumar C. Gowre**, Sudipta Mahapatra, S. K. Varshney, P. K. Sahu, "Dispersion Characteristics of All-Glass Photonic Crystal Fiber," Elsevier's OPTIK-International journal for Light and Electron Optics, 124(2013), pp.3730- 3733. (0.677) (Google Scholar) (SJR=0.48, Q2)
  29. **Sanjay Kumar C. Gowre**, S. Mahapatra and Uday N K, “**Analysis of Birefringence in Modified Photonic Crystal Fiber**”, World Journal of Science & Technology, Vol. 1, No. 8, 2011, pp 84-88
  30. Uday N K, Chamundeshwari, Nagashetty B and **Sanjay Kumar C. Gowre**, “**Sensors and Controllers for self navigating Robot**”, World Journal of Science & Technology, Vol. 1, No. 8, 2011, pp 160-165
  31. P K Sahu, **Sanjay Kumar C. Gowre**, and S. Mahapatra, “**Optical Time Domain Reflectometer performance improvement using Complementary Correlated Prometheus Orthonormal Sequence**”, IET Optoelectronics, Vol.2 No.3, 2008, pp.128-133.(0.683) (SJR=0.41, Q2)

**International and National Conference: -**

1. Pavan M & Sanjaykumar Gowre, "Rotational Invariance Technique based SDLMS Algorithm", INTERNATIONAL CONFERENCE ON ADVANCES IN COMMUNICATION & COMPUTING TECHNOLOGY (ICACCT-2021), Dec. 28-29, 2021, GNDEC Bidar.
2. Husain Bhaldar, Sanjay Kumar Gowre, Mahesh M Mathpati, Mainaz S Ustad, Ashish A Jadhav, Pavan Mankal, "Multiband Microstrip Textile Antenna for WiFi/WiMAX/5G Communication" 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON)
3. Shabana T., Sanjaykumar C. Gowre, "Demosaicing using MFIT based on Convolution Neural Network, International Conference on Intelligent Data Communication Technologies & Internet of Things, (ICICI-2019)
4. Mahesh V., Sanjaykumar C. Gowre, Savita Soma and Sanjeev P. Gogga, "Photonic Crystal Waveguide and Cavities for all-Optical Logic Devices", International Conference on Inventive Communication and Computational Technologies, (ICICCT-2018)
5. Sanjaykumar C. Gowre and Baswaraj Gadgay, "Realization of Temperature sensor using All Glass Photonic Crystal Fiber", National Conference on Power Systems & Industrial Automation (NCPSIA-2015), organized by GSSSIETW, Mysuru on 22/08/2015.
6. Sanjaykumar C. Gowre, Sanjeev Gogga, Saba Fatima & A. S. Inamdar, "All Glass Photonic Crystal based Sensors and Conditioning Circuit for Rural Health Care" HTI-2015, IIT Bombay, Jan. 9-10, 2015.
7. Mahesh V. Sonth and Sanjaykumar C. Gowre, "Photonic Crystal Fiber based Sensors", NCST-2014, 22-23 March, 2014, BKIT Bhalki
8. Sanjay Kumar C. Gowre, S. Mahapatra and Uday N K, "Measurement and Analysis of Birefringence in Photonic Crystal Fiber", Oct. 29-30, 2010, ICN-2010, REC Bhalki, pp. 450-453.
9. Sanjay Kumar C. Gowre and S. Mahapatra, "Design of Modified Micro-Structured Optical Fiber for Dispersion-Related Applications", IEEE ICIS-2010, NITK Suratkal.
10. Sanjay Kumar C. Gowre, S. Mahapatra, P K Sahu, and J. C. Biswas, "Design of Modified Micro-Structured Optical Fiber for Dispersion-Shifted Applications", International Conference on Photonics-2008, Dec. 2008, IIT Delhi.
11. Sanjay Kumar C. Gowre, S. Mahapatra, P K Sahu, and J. C. Biswas, "Design and Analysis of Modified Photonic Crystal Fiber Structure", IEEE International Conference on Industrial and Information System-2007, 8-11 Aug. 2007, Peradeniya University, Kandy, Sri-Lanka. (Google Scholar)
12. P K Sahu, S. Mahapatra, Sanjay Kumar C. Gowre, J. C. Biswas, and H M Padhy, "Design and simulation of a PRBS coded Fiber Bragg Grating temperature sensor", SPIE International Conference on Optics and Optoelectronics, 16-19 Apr. 2007, Prague Congress Centre, Prague, Czech Republic.
13. P K Sahu, S. Mahapatra, Sanjay Kumar C. Gowre, and J. C. Biswas, "Design and simulation of programmable delay using a Fiber Bragg Grating (FBG) array for high speed optical networks and an error model for a CFBG based



- Optical device." , International Conference CODEC 2006**, 18-20 Dec. 2006, University of Calcutta, Kolkata. **India.**
15. **SanjayKumar C Gowre**, P K Sahu, J C Biswas, S Mahapatra, Manjula S, and Nagashetty B, "**Utilization of Genetic Algorithm for the Efficient Analysis of Microstructured Optical Fiber**", , **International Conference CODEC 2006**, 18-20 Dec. 2006, University of Calcutta, Kolkata. **India.**
  16. **SanjayKumar C Gowre**, P K Sahu, J C Biswas, S Mahapatra, and Nagashetty B, "**Design and Simulation of Fiber with Zero Dispersion Wavelength below 1300 nm using Microstructured Optical Fiber**" , **International Conference Photonics 2006**, 13-16 Dec. 2006, Hyderabad University, Hyderabad. **India.**
  17. P K Sahu, **SanjayKumar C Gowre**, J C Biswas, and S Mahapatra, "**Analysis of Fiber Bragg Grating Application in Telecommunication Networks**". **International Conference Photonics 2006**, 13-16 Dec. 2006, Hyderabad University, Hyderabad. **India.**
  18. P K Sahu, **SanjayKumar C Gowre**, J C Biswas, S Mahapatra, and H.M.Padhy, "**Temperature insensitive fiber Bragg grating sensor for smart structure**", PCEA – IFTOMM **International Conference (PICA 2006)** on "Recent Trends in Automation & its Adaptation to Industries", organized by Priyadarshini College of Engineering & Architecture, Nagpur, India and International Federation for the Promotion of Mechanisms & Machine Sciences July 11 – 14, 2006. Nagpur, **India.**
  19. P K Sahu, **SanjayKumar C Gowre**, S Mahapatra, and, J C Biswas "**Numerical modeling and simulation of Fiber-Bragg Grating based devices for all-optical communication network**", **IEEE Third International Conference** on Wireless and Optical Communication Networks (WOCN-2006), April 11-13, Bangalore, **India.** (Google Scholar)
  20. **SanjayKumar C Gowre**, and J C Biswas, "**Guiding the light with the Holey Fiber**", **International conference** on EPMDs-06, Jan. 4-6, 2006, pp. H13-15, 2006, University of Calcutta, Kolkata, **India.**
  21. **SanjayKumar C Gowre**, and J C Biswas, "Genetic Algorithm: A Nature Inspired Routing and Channel Assignment Algorithm for Optical Circuit-Switched Polymorphic Networks", **International Conference on Cognition and Recognition (ICCR-05)**, Dec. 22-23, 2005, pp. 377-381, 2005. PES Mandya, **India.**
  22. A M Bhavikatti, **SanjayKumar C Gowre**, Nagashetty B, and Navnath Kale, "Broadband Communication: A new paradigm for an application to wireless networks", NUCONE 2006, Nirma University, Ahmedabad, **India.**
  23. P K Sahu, **SanjayKumar C Gowre**, J C Biswas, and S Mahapatra "Technical challenges of Mobile Computing", GIET, Gunupur, Orissa, **India.**
  24. P K Sahu, J C Biswas, S Mahapatra, and **SanjayKumar C Gowre**, "Characterization of next generation fiber sensors", NCC-06, **IIT Delhi. India.**
  25. P K Sahu, **SanjayKumar C Gowre**, S Mahapatra and J C Biswas, "Characterization of Fiber Bragg grating response in a all-optical network", INSIGHT-2005 (Won the first prize), Oct.-22, 2005, pp37-39 Conf. Proc. INSIGHT-2005(Organizer:- NITC,IEEE STUDENTS BRANCH). **India.**
  26. **SanjayKumar C Gowre**, P K Sahu, and J C Biswas, "Design and Analysis of V-parameter in a Holey fiber", INSIGHT-2005, Oct.-22, 2005, pp42-44 Conf. Proc. INSIGHT-2005 (Organizer: - NITC, IEEE STUDENTS BRANCH). **India.**

27. **SanjayKumar C Gowre**, P K Sahu, and J.C Biswas, “MEMS for optical switching networks”, **ETA-2005**, Oct.1-2, 2005, (Organizer: - Comp. Sc. dept. of Saurashtra University, Rajkot & Amoghsiddhi Education Society, Sangli). **India**.
28. **SanjayKumar C Gowre**, and J C Biswas, “Ant Colony Optimization for Optical Circuit-Switched Diversified Network”, **NCDK-2005**, Sep 16-17, 2005, Conf. Proc. NCDK-2005 (Organizer: - Sri Sai Ram Engg College, Tambaram, Chennai), **India**.

#### **Conferences/Workshops/Short term Courses/Summer School organized:**

1. **VTU Youth Fest “Janani-2018”**
2. One Week Training programme on Internet of Things (IoT) during 29/08/2016 to 03/09/2016 at BKIT Bhalki
3. VTU-VGST sponsored FDP on “**Future Recent Trends & Innovations in Information Communication & Technology**” during 8<sup>th</sup> to 11<sup>th</sup> May 2014 as Chief Coordinator.
4. National conference on “**Recent Innovations in Engineering & Technology**” (NCRIET-2014) during 03-04, May, 2014 as Advisor.
5. National conference on “**Recent Advances in Science & Technology**” (NCST-2014) during 22-23, March, 2014 as Advisor.
6. Five Day Winter School on “**Recent Innovations in HDL and Microprocessor**” during 21-25 January, 2014 as Advisor.
7. National conference on “**Recent Trends in Management & Technology**” during April 5-6, 2013 as Advisor.
8. National level workshop on “**Recent Research Trends in Communication and Network**” during March 15-16, 2013 as Advisor.
9. Faculty development programme on **Micro-electronics and circuits** on 16<sup>th</sup> Feb. 2013 as Co-ordinator.
10. National level science exhibition “**ICCHA-2013**” on 20<sup>th</sup> Jan. 2013 as Co-ordinator.
11. National conference on “**Emerging Information Technology and Engineering Solutions**” (EITES-2012) during 23-24, August, 2012 as Advisor.
12. International Conference on “**Communication, Computation, Management and Nanotechnology**” (ICN-2011) during September 23-25, 2011
13. International Conference on “**Communication, Computation, Control and Nanotechnology**” (ICN-2010) during October 29-30, 2010
14. ISTE sponsored Two Days National Workshop on “**Challenges in VLSI Design**” during 03-04, September 2010.
15. ISTE sponsored Two Days National Workshop on “**Recent Advances in Communication**” during 06-07, August 2010.
16. ISTE sponsored Two Days National Workshop on “**Enhancing Teaching Skills**” during 13-14, May 2010.
17. **EITEM-2010**, Student level Technical paper presentation on 17/03/2010
18. National level workshop on “**OOPS**” during 04-05 March 2010
19. Refresher Course on “**Advanced Microprocessor**” from 21-23 Dec. 2009, REC Bhalki.
20. Workshop on “**Fundamentals of HDL**” on 21 Feb. 2009, REC Bhalki.

### **Workshops/Short term Courses/Summer School/Conference attended:**

1. Attended one week AICTE-VTU training program on “An overview of Teaching Techniques in Innovation and Design Thinking”, 27-31 Dec. 2021.
2. Attended One week FDP on “Microwave & Photonic Devices and Modeling”, organized by IIT Bhubaneswar during 21-25 June, 2021.
3. Attended one week FDP on “Exemplary practices in Teaching-Learning and Evaluation of courses in Computer Science & Information Technology” jointly organized by VTU, CPSG Kalaburagi & IIIT Allahabad from August 3-7, 2020.
4. Attended one week FDP on “Computational Methods for Big Data Analytics” organized by VTU Belagavi from 06-10 January, 2020.
5. Attended two days ISTE National Faculty convention @ VTU Belagavi during 19-20, March 2019
6. Attended one day workshop on NPTEL on 05/11/2016 organized by IIT Madras.
7. Attended Two days workshop on “Big Data Analytics & Hadoop” on 28/09/2016 organized by KBNCE Gulbarga
8. Attended Two days National Conference on ICT (NCICT-2016) during 5-6 May, 2016 at BKEC B’Kalyan as Guest of Honor.
9. Attended One day workshop on “Rain Water Harvesting Interactive Techniques and Strategies” organizes jointly by KSCST and VTU Belagavi on 2<sup>nd</sup> July, 2015 at VTU RO, Kalaburagi.
10. IESA Vision Summit during Feb. 02-03, 2015 at Leela Palace, Bangalore.
11. Summer school on “**ADVANCES IN PHOTONICS NETWORKS & COMMUNICATION ENGINEERING**” 14-16, June, 2013, IIT Bhubaneswar.
12. National Workshop on “**MSP-430 ULTRA LOW POWER MICROCONTROLLER**”, 04/02/2012 at BKIT, Bhalki.
13. National Workshop on “**INFORMATION TECHNOLOGY & CLOUD COMPUTING**”, 24/12/2010 at KAS&C Bidar.
14. National Workshop on “**COMPUTATIONAL NEUROSCIENCE**”, 26-31 July, 2010 at GNDEC Bidar
15. National seminar on recent trends in “**IMAGE PROCESSING AND PATTERN RECOGNITION**” 15-16, February 2010 at KAS&C Bidar
16. National Workshop on “**RECENT TRENDS IN WIRELESS NETWORKS**”, Oct. 30<sup>th</sup> and 31<sup>st</sup> 2009 at GNDEC Bidar.
17. National Seminar on “**MOBILE SYSTEMS & DEVICES**” on 25<sup>th</sup> Aug. 2009 at GNDEC Bidar.
18. Workshop on “**MISSION10X LEARNING APPROACH**”, Feb. 13 & 14 2009, conducted by WIPRO at REC Bhalki.
19. Workshop on “**CAMBRIDGE CERTIFICATION PROGRAM**”, Feb. 12 & 13 2009, conducted by WIPRO at REC Bhalki.
20. Workshop on “**HIGH IMPACT TEACHING SKILLS**”, Feb. 10 & 11 2009, conducted by WIPRO at REC Bhalki.
21. Workshop on “**EMBEDDED SYSTEM DESIGN**”, Feb. 2 to 6 2009, IIT Kharagpur.
22. Workshop on “**FUNDAMENTALS OF HDL**” on 14 and 15 Feb. 2008, conducted by Vivekananda Institute of Technology Bangalore.
23. Workshop on “**ARTIFICIAL INTELLIGENCE AND SOFT ACTUATORS IN BIO-MEDICAL ENGINEERING**” on 8 Aug. 2007, conducted by faculty of Engineering, Peradeniya University, Kandy, Sri-Lanka.

24. Short-term course on “ **IMAGE AND VIDEO PROCESSING**” from 19 Feb. 2007 to 02 Mar. 2007, conducted by E & ECE Department, IIT Kharagpur.
25. Short-term course on “ **INTERPERSONAL COMMUNICATION**” from 13 Feb. 2006 to 18 Feb. 2006, sponsored by AICTE, New Delhi, conducted by HSS Department, IIT Kharagpur.
26. Short-term course on “ **EFFECTIVE TEACHING SKILLS**” from 31 Jan. 2005 to 5 Feb. 2005, under CEP, conducted by HSS Department, IIT Kharagpur.
27. Workshop on “**DIGITAL IMAGE PROCESS & RECENT ADVANCEMENTS**” from 17 July 2004 to 18 July 2004, conducted by GND Engineering College, Bidar.
28. Workshop on “ **ANTENNA MEASUREMENT TECHNIQUES & FACILITIES**” on 11 July 2003, conducted by Amrita Institute of Technology & Science, Bangalore.
29. AICTE-ISTE sponsored summer school on “**VLSI DESIGN**”, from 31 Mar. 2001 to 11 Apr. 2001, conducted by REC Bhalki.
30. Seminar on “**ENVIRONMENTAL EDUCATION & MANAGEMENT**”, from 29 Nov. 2000 to 30 Nov. 2000, conducted by KAS&C College, Bidar.
31. Workshop on “**EFFECTIVE TEACHING SKILLS**”, on 14 Oct. 2000, conducted by Rotary Club of Bidar Fort, Bidar.
32. AICTE-ISTE sponsored summer school on “**ADVANCED COMMUNICATION**”, from 15 Mar. 2000 to 26 Mar. 2000, conducted by REC Bhalki.

**Course Expert/Guest Lectures/Expert Talk/Session chair/Editorial board member:-**

1. Course expert for VTU e-Shikshana Program for the subject Microcontroller (18EC46)
2. Delivered a talk on “Advances in Photonic communication and Networks” during one week FDP on “**Recent Trends, Advancements and Applications of Communication Technologies**” organized by CMRTC Hyderabad from 25-29 May, 2020.
3. Delivered a talk on “Photonics- New materials, New opportunities & Applications during one week FDP on “Recent Trends in Electronics & Communication Engineering” organized by JBIET Hyderabad from 26-30 April, 2020.
4. Delivered a talk on “Photonics for Big Data Analytics during one week TEQIP sponsored FDP on “Computational Methods for Big Data Analytics” organized by VTU Belagavi from 06-10 January, 2020.
5. Delivered talk on “Photonic crystal –New avenues and challenges” during two days workshop on \_\_\_\_ @ SIT Kalaburagi on 15/03/2018.
6. Delivered talk on LATEX at three days national workshop on Research Methodology and LATEX, organized by KBNEC Kalaburagi on 25/03/2018
7. Chaired the session during National Conference on Advances in Computing & Communication (NCACC-2016) on 23/10/2016 at GNDEC, Bidar.
8. Delivered a guest lecture on “IoT” at Govt. First Grade Degree College, Bidar on 23/10/2016

9. Chaired the session during International Conference on Current Research Advances in Electrical Sciences (ICCRAES-2016) on 03/10/2016 at PDACE Gulbarga.
10. Delivered a guest lecture on “Photonic Crystals ” at SIT Gulbarga on 10/09/2016
11. Delivered a expert talk on “Use of LATEX in document preparation” during Faculty Orientation Programme on Educate the Educators organized by Department of ASH, BKIT Bhalki on 05/07/2016.
12. Delivered key note address on “Recent Trends in ICT” during NCACM-2016 at DYPIMCA Akurdi, Pune on 29/01/2016.
13. Delivered talk on “OPTICAL NETWORKS” during VTU-VGST FDP on Trends in Computing Research from 15-18 June, 2015 at VTU Belagavi.
14. Delivered talk on “Tools & Techniques for LATEX” at VTU Belagavi on 27<sup>th</sup> April 2015.
15. Delivered talk on “Photonic Crystals” VTU-VGST sponsored FDP on “Future Recent Trends & Innovations in Information Communication & Technology” during 8<sup>th</sup> to 11<sup>th</sup> May 2014 at BKIT Bhalki
16. Delivered talk on “**Tools & Techniques**” during National Workshop on “Research Methodology” during 17-18 March, 2014 at BKIT Bhalki.
17. Delivered talk on “**Introduction to Microprocessor**” and “**Recent innovations in Microprocessor**” during Five Day Winter School on “Recent Innovations in HDL and Microprocessor” during 21-25 January, 2014.
18. Delivered expert talk on “**PHOTONIC CRYSTAL FIBER**” during National level workshop on Recent Advances in Communication at REC Bhalki on 06/08/2010.
19. Delivered expert talk on “**LATEX**”
20. Chaired the session during National Conference on RIICTeM-2015 at VTU Regional Centre, kalaburagi during May 21-22, 2015.
21. Chaired the session during National conference on “**Recent Advances in Science & Technology**” (NCST-2014) during 22-23, March, 2014
22. Chaired the session for National level workshop on DBMS, VB & C++ at REC Bhalki during 27-29 January 2010/
23. Chaired the session during **International Conference on “Communication, Computation, Management and Nanotechnology” (ICN-2011) during September 23-25, 2011.**
24. Chaired the session during National conference on “**Emerging Information Technology and Engineering Solutions**” (EITES-2012) during **24-24, August, 2012.**
25. Editorial board member of **World Journal Of Science & Technology**
26. Editorial board member of **International Journal of Sensor and Related Networks (IJSRN)**

**Administrative responsibilities:-**

1. Working as Head of CSE from 01/02/2021
2. Working as Dean (Academics) from December 2017
3. Working as Head R & D Cell
4. Working as coordinator in NBA/NAAC/IQAS/NIRF

5. Worked as H.O.D. of Telecommunication Engineering Department from March 2011 to Feb. 2014.
6. Worked as BoE @ VTU Belagavi
7. Worked as QPDS coordinator
8. Worked as Secretary of IETE Gulbarga sub-centre from 2016-2018
9. Worked as Hon. Treasurer of IETE Gulbarga Sub-Section from 2014-2016.

**Thesis Evaluation:-**

1. **Visibility Restoration of Underwater Optical Images using Dehazing Algorithm and Enhancement Techniques, SGGS Nanded**
2. **Document Text Recognition, SGGS Nanded**
3. Design & Analysis of Photonic Crystal based Devices, VTU Belagavi
4. **Realization of optical logical devices using PhC, VTU Belagavi**

**References:-**

1. **Prof. Sudipta Mahapatra**  
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2. **Prof. P K Sahu,**  
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