# Dr. Hameed Miyan

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**Experience:**

**(1) Associate Professor, Dept. of Computer Science & Engineering (Cyber Security), BKIT Bhalki :** 01.08.2024 to till date

**(2) Associate Professor, Dept. of Electronics & Communication Engineering, BKIT Bhalki :** 01.01.2024 to 31/07/2024

**(3) Assistant Professor, Dept. of Electronics & Communication Engineering, BKIT Bhalki :** 21.09.2009 to 30.12.2023

**(4) Lecturer, Dept. of Electronics & Communication Engineering, BKEC Basavakalyan :** 03.03.2003 to 09.08.2007

| Degree | Year | University/Board | CPI/% |
|---|---|---|---|
| **PhD** Electronics & Communication Engineering | 2020-2023 | NIT Patna | 8.75 (Course work) |
| **M.E** Power Electronics | 2007-2011 | UVCE Bangalore | 69.16% |
| **B.E.** Electronics & Communication Engineering | 1998-2002 | VTU Belgaum | 63.14% |

**Current Area of Research**

Photonics, Waveguides, Biosensors and MIMO-OFDM

**PhD Thesis**

**Topic:** Photonic crystal Based Biosensors for Disease Detections

**Supervisor:** Dr. Manpuran Mahto (Professor NIT Patna)

**Co-Supervisor:** Dr. Sanjaykumar Gowre (Professor JSPM Pune)

**Awards:**

1. **Award of Excellence in Research 2023-24**, Novel Research Academy, Pondicherry

2. **Academic Excellence Award 2024,** Scientific International Publication House, TN

**Patent:**

1. Baskaran Ramalingam, S. Perumal, Gurjinder Singh, **Hameed Miyan**, Debabrata Barik, H. F. Mohammed Aadam, "Biosensor Based Biotech Device to Detect Lung Cancer", Design No.: 411070-001, Serial No. 173552, Date: 20/03/2024.

**List of Publications**

**Journals:**

1. **Hameed Miyan,** Rajan Agarhari, Sanjay Kumar Gowre, Manpuran Mahto and Pradip Kumar Jain, "Photonic Crystal Based Ultrafast and Highly Sensitive Refractive Index Sensor", ***IEEE Sensor Journal***, vol. 23, no. 14, pp. 15563 - 15569, 2023. **DOI:** 10.1109/JSEN.2023.3283506
2. **Hameed Miyan,** Rajan Agarhari, Sanjay Kumar Gowre, Manpuran Mahto and Pradip Kumar Jain, "Computational Study of a Compact and High Sensitive Photonic Crystal for Cancer Cells Detection," ***IEEE Sensor Journal***, vol. 22, pp. 3298 – 3305, 15 2022.
3. **Hameed Miyan,** Rajan Agarhari, Sanjay Kumar Gowre, Pradip Kumar Jain and Manpuran Mahto, "Computational study of 2D photonic crystal based biosensor for SARS-COV-2 detection," ***Measurement Science and Technology***, vol. 34, p. 074004, 2023.
4. Manjunatha N, Sarika Raga, Sanjaykumar Gowre, **Hameed Miyan** and Preeta Sharan , "Two-Dimensional Photonic Crystal Biosensor Based on Gallium Arsenide Composite Semi-conductive Material for Diabetes Detection", ***Plasmonics***, Vol.17, 2023. **DOI:** https://doi.org/10.1007/s11468-023-01857-2.
5. Manjunatha N, Sarika Raga, Sanjaykumar Gowre, **Hameed Miyan** and Preeta Sharan , "A Gallium Arsenide composite semi-conductive material- based 2D photonic crystal biosensor for cancer cell detection", ***Quant Electron,*** Vol. 55, no.1090, 2023 . **DOI:** 10.1007/s11082-023-05281-y
6. Manjunatha N, Sarika Raga, Sanjaykumar Gowre, **Hameed Miyan** and Preeta Sharan , "A 2D GaAs-Based Photonic Crystal Biosensor for Malaria Detection",

***IJETI*** , vol. 13, no. 4, pp. 328-336, 2023", **DOI:** https://doi.org/10.46604/ijeti.2023.11660

7. **Hameed Miyan**, C.M.Tavade, L.M.Deshpande, Prashanth R.S.," Design and Implementation of high frequency transformer for SMPS Based flyback DC-DC converter", ***IJET***, Vol 4 No 6, pp.494-499, Dec 2012-Jan 2013.
8. A.M. Bhavikatti, **Hameed Miyan**, Dhiraj Deshpande, L.M. deshpande," FPGA Implementation of MAC Header Block of Transmitter for Wi-Fi", ***IJEST***, Vol. 3 No. 4, pp.3327-3335, April 2011.
9. Sanjeev Gogga, Geeta Birkure, **Hameed Miyan**," Signal Detection for Spatially multiplexed MIMO System", ***IJRET***, Vol.04,no.05, pp.44-46, May 2015.
10. C.M. Tavade, N. Shweta, **Hameed Miyan**, "Performance analysis of PTS technique for PAPR reduction in MIMO-OFDM", ***IJSR***, Nov 2015.
11. **Hameed Miyan** , Deepika Patil, S.G.Hiremath," Capacity based performance analysis of optimal antenna selection for 8X8 MIMO", ***IOSR***, Vol.10,no.02, pp.08-11, 2015. DOI: 10.9790/2834-1023081.
12. A.S.Inamdar, Mavita Vatambe, **Hameed Miyan**," Performance Analysis Of Golden Code", ***IJRET***, Vol.04, no.05, 2015.
13. Deepika Patil, **Hameed Miyan**," Low Complexity Antenna Selection Technique for Mimo System", ***IJAR***, Vol.05, no.05, pp. 19-21, 2015. **DOI:** 10.36106/IJAR.
14. C.M.Tavade, **Hameed Miyan**," An investigation of modified Dielectric material for wireless communication applications", ***IJERA***, pp. 38-41, 2015.
15. Md. Tafheemuddin, T.S.Vishwanath, **Hameed Miyan**, "Performance Evolution of Downlink MIMO in LTE Technology", ***IJMETMR***, Vol.04, no.04, pp.229-232, 2017.

**Conferences:**

1. **Hameed Miyan,** Sanjaykumar Gowre and Manpuran Mahto, "Photonic Crystal based Biochemical sensor for detection of Cocaine Concentration in Saliva," in **66$^{th}$ Annual IETE Convention (AIC)** on the theme " The role of 5G in enabling digital transformation for rural upliftment,"15$^{th}$-17$^{th}$ Sep-2023, IETE Pune, India.

**Lecture delivered in workshop**

1. A talk on **"SIMULINK A PROJECT APROACH" ,** 3 days National workshop on " Advances in Network simulators" 3rd April to 5th April 2014, BKIT Bhalki.

**Short Term Courses/ Faculty Development Program/Symposium/conference attended:**

1. FDP on "**Effective Engineering Teaching In Practice**", through **NPTEL** (4 Weeks), 2020.
2. FDP on "**Introduction to wireless and cellular communication**", Through **NPTEL** (12 Weeks), 2019.
3. A short term course on "**Biomedical image processing & computed tomography**", **IISC** Bangalore (1 Week), 2015.
4. A short term course on "**Recent Innovation in HDL and Microprocessors**", **BKIT** Bhalki (05 Days) 2014.
5. Workshop on "**How to get published Author Workshop**", **IOP Publishing Academy** (1 Day) 2023.
6. FDP on **"Ensuring Research Integrity: A Digital Hygiene Approach with Block chain Technology"**, Sri Krishna Arts and Science College, Suganapuram. Feb 26-March 01, 2024 (05 Days).

**NPTEL Certification:**

1. Completed course on "**Effective Engineering Teaching In Practice**", with 89%.
2. Completed course on "**Introduction to wireless and cellular communication**", with 66%.

**Member of professional bodies:**

IETE: Membership No.:AM232791, IACSIT: Membership No.: 80348733

**Reviewer Member:**

1. Silicon Journal (Springer nature)
2. Discover Electronics Journal (Springer)
3. Plasmonics Journal

**Subject Taught:**

**For UG**: Electromagnetic Wave theory, Digital communication, Computer

communication Networks, Artificial Intelligence, Basic Electronics, Wireless communication, Engineering statistics and Linear Algebra and Network analysis.

**For PG:** Fundamentals of Wireless communications, Error Control Coding.

**Subject handled for other department (CSE/AI):**

**For UG**: Computer Graphics, Introduction to Artificial intelligence, Computer Networks, Data Communication & Networking, Digital and analog electronics.

**Supervision:**

1. **PhD:**
   Co-supervisor-01 (on going at MIT manipal)
2. **M.Tech:**
   Supervisor- 03 (Completed)
3. **B.Tech:**
   Supervisor- 11 (Completed)

**Administration Activities**

1. UG Coordinator of Admission Committee BKIT, Bhalki (present)
2. Member of NAAC Committee, BKIT, Bhalki (past)
3. Nodal Officer of NSP BKIT, Bhalki (present)
4. Director of Taj National educational society, Basavakalyan (past)
5. PG Coordinator Dept. of ECE, BKIT, Bhalki (past)

**Personal Profile**

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| Name: | Hameed Miyan |
| Date of Birth: | 03.05.1979 |
| Mother's Name: | Mahtabbi |
| Father's Name: | Late Waheed Miyan |
| Present Address: | Dept. of Electronics & Communication Engineering, BKIT Bhalki-585328, India |
| Permanent Address: | c/o- Rahman Medical near sangesia masjid fort road Basavakalyan, Dist: Bidar Karnataka-585327. |

**Place: Bhalki** **(Dr.Hameed Miyan)**