

## AASIF BASHIR DAR

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**Qualifications:** BTECH, MTECH, PHD

**Ph.D. Thesis Title:** Optical Millimeter-wave generation using Mach-Zehnder Modulators.

**Date of Ph.D. viva-voce:** 10 November 2022

**Current Working Status:** Assistant Professor in the Department of Electronics and Communication Engineering, Islamic University of Science and technology, Awantipora.

**Address for correspondence:** Kobi Mohalla, Mustafaabad -pahroo, Kashmir (192121), Jammu and Kashmir, India

**Permanent Address:** Kobi Mohalla, Mustafaabad-pahroo, Kashmir (192121), Jammu and Kashmir, India

**Field(s) of Specialization:** Optical Fiber Communication

**Areas of Research Interest:** Optics communication, Nonlinear-optics, Optical millimeter waves, Next generation optical networks

## ACADEMIC DETAILS

Year	Degree	School/ College/ University	Marks Obtained
2007	Secondary	Shiekh-ul- Aalam secondary school, Wagoora (JKBOSE)	79.2%
2009	Higher Secondary	Fayaz Educational Institute Nowgam, Sgr. (JKBOSE)	81.2%
2010-14	B.Tech (ECE)	Islamic University of Science and Technology, Awantipora	88.2%
2014-16	M.Tech (ECE)	Shri Mata Vaishno Devi University, Katra	85%
2018-22	P.HD*	Islamic University of Science and Technology, Awantipora	95%

\*Percentage of course work

## Other Qualifications

Exam	Year	Body	Score(max)
GATE (ECE)	2014	IITK	423(1000)
JKSET (Electronic Science)	2018	J&K SET Agency	242(350)
UGC (NET+JRF) (Electronic Science)	2019	UGC/NTA	204(300)

## **EXPERIENCE**

- Teaching assistant for two years at Shri Mata Vaishno Devi University during M.Tech Course.
- Assistant Professor (Contractual) at Department of Electronics & Communication Engineering, Islamic university of Science and Technology , Awantipora from **02-01-2017** to **31-01-2018**.
- Assistant Professor (Contractual) at Department of Electronics & Communication Engineering, Islamic university of Science and Technology , Awantipora from **05-04-2018** to **10-12-2018**.
- Lecturer (Contractual) at Department of Electronics & Communication Engineering, IOT Zakura, University of Kashmir from **18-04-2022** to **31-01-2023**.
- Assistant Professor (Contractual) at Department of Electronics & Communication Engineering, Islamic university of Science and Technology , Awantipora from **27-02-2023** to **31-12-2023**.
- Assistant Professor (Contractual) at Department of Electronics & Communication Engineering, Islamic university of Science and Technology , Awantipora from **12-02-2024** to **31-12-2024**
- Assistant Professor (Contractual) at Department of Electronics & Communication Engineering, Islamic university of Science and Technology , Awantipora from **12-02-2025** to **31-12-2025**
- Currently working as Assistant Professor (Contractual) at Department of Electronics & Instrumentation Technology, University of Kashmir, Hazratbal, Srinagar.

## **PROJECTS COMPLETED**

1. “A novel design for digital frequency synthesis” (BTECH)
2. “Dispersion compensation using fiber Bragg gratings” (MTECH)
3. “Optical Millimeter-wave generation using Mach-Zehnder Modulators” (PHD)

## **VOCATIONAL TRAININGS AND WORKSHOPS ATTENDED**

- Completed four-week training at Doordarsan Kendra, Srinagar.
- Attended Workshop on Optisystem.
- Attended One week workshop titled “Data science and Information security bootcamp” at IUST, J&K.
- Attended and organized 3-day national workshop on “5G: An evolution to revolution” at IUST, J&K.
- Participated in one week faculty development programme on Machine learning using Python, at IUST, J&K.
- Attended 3-day national workshop on technical paper writing, patent drafting and filing, at IUST, J&K.
- Participated in 3-day workshop on intellectual property rights (IPR)-Fostering innovation Ecosystem in J&K, at JKEDI, Pampore.
- Participated in one-day international workshop on cyber communication: Security and laws at IUST, J&K.

## **Presentation/Participation**

- Participated in IEEE Conference in Gujarat, ICRAIE-2020
- Participated in IEEE Conference in Dehli, INDICON-2020

## PUBLICATIONS (Journal papers)

S. No.	Authors as per order	Paper Title	Journal/Publisher	Vol/Issue/Pages/Year
1	Malik Efhana Bashir, Aasif Bashir Dar, Faroze Ahmad	Filterless frequency sextupling and 18-tupling optical millimeter-wave generation using Mach-Zehnder modulators	Optoelectronics and advanced materials – rapid communications	17/11-12/503-512/2025
2	Aasif Bashir Dar, Faroze Ahmad	Optical Millimeter-Wave Generation Techniques: An Overview	Optik/ Elsevier	258/03/1-27/2022
3	Aasif Bashir Dar Faroze Ahmad Rakesh Kumar Jha	Filterless optical millimeter-wave generation using cascaded-parallel Mach-Zehnder modulators with tunable frequency multiplication factor	Optical and Quantum Electronics/Springer	53/01/1-15/2021
4	Aasif Bashir Dar Faroze Ahmad	Filterless 16-tupling photonic millimeter-wave generation with Mach-Zehnder modulators using remodulation	Applied Optics/ Optical Society of America (OSA)	59/20/6018-6023/2020
5	Aasif Bashir Dar Faroze Ahmad Rakesh Kumar Jha	Filterless 16-Tupled Optical Millimeter-Wave Generation Using Cascaded Parallel Mach-Zehnder Modulators with Extinction Ratio Tolerance	Progress in electromagnetic research letters/ The Electromagnetics Academy	91/-/129-135/2020
6	Aasif Bashir Dar Faroze Ahmad	A full-duplex 40 GHz radio-over-fiber transmission system based on frequency octupling	Optical and Quantum Electronics/Springer	51/10/1-11/2019
7	Aasif Bashir Dar Rakesh Kumar Jha	Design and comparative performance analysis of different chirping profiles of tanh apodized fiber Bragg grating and comparison with the dispersion compensation fiber for long-haul transmission system	Journal of Modern Optics/ Taylor and Francis	64/6/555-566/2017
8	Aasif Bashir Dar Rakesh Kumar Jha	Chromatic dispersion compensation techniques and characterization of fiber Bragg grating for dispersion compensation	Optical and Quantum Electronics/Springer	49/-/108/2017
9	Aasif Bashir Dar Furqan Zahoor, Rakesh Kumar Jha, Neeraj Tripathi Manish Sabraj	An Analysis of 16 Channel 64 User Hybrid WDM/TDM Topology in the Optiwave Simulation Environment	International Journal of Computer Sciences and Engineering	4/5/31-35/2016
10	Shahid Bashir Dar Aasif Bashir Dar	Watermarking in frequency domain a review	International Journal Of Engineering And Computer Science	3/11/ 9215-9218/2014

### Publications (Conference papers)

S.No.	Authors as per order	Paper Title	Conference/publisher	DOI	Indexing
1	Aasif Bashir Dar Faroze Ahmad	Realization of Mach-Zehnder Modulator with Ultrahigh Extinction Ratio at Maximum Transmission Bias Point	2020 5th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE)/IEEE	10.1109/ICRAIE51050.2020.9358332	Scopus
2	Aasif Bashir Dar Faroze Ahmad	Realization of Mach-Zehnder Modulator with Ultrahigh Extinction Ratio at Minimum Transmission Bias Point	2020 IEEE 17th India Council International Conference (INDICON)/IEEE	10.1109/INDICON49873.2020.9342395	Scopus
3	Mohammad Ayoub Sofi Khalid Muzzafar Mir Amir shafi Aasif Bashir Dar	Defected Ground Structure Based Rectangular Microstrip Patch Antenna With Triple Band Operation	2017 International Conference on Innovations in Control, Communication and Information Systems (ICICCI)/IEEE	10.1109/ICICIS.2017.8660929	Scopus
4	M. E. Bashir, A. B. Dar and F. Ahmad	Photonic Generation of Millimeter Waves using two Cascaded DPMZMs with Frequency Multiplication Factor (FMF) of 16 without filtering	2026 6th Biennial International Conference on Nascent Technologies in Engineering (ICNTE)	10.1109/ICNTE66387.2026.11437525	Scopus

### Awards/Honors

S. No.	Name of the body	Year of award	Nature of awards
01	Minority Affairs	2011-2014 (July)	Scholarship
02	AICTE	2014 (August)-2016(June)	Scholarship
03	TEQIP-III	2018( 11 <sup>th</sup> December)-2019(11 <sup>th</sup> July)	Fellowship
04	UGC	2019(11 <sup>th</sup> July)-2022	JRF/SRF

