BASEERAT KHAN

Ph.D. Scholar (ECE) | Assistant Professor — Contractual

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CAREER OBJECTIVE

Motivated and research-driven engineering educator with multiple years of classroom teaching experience at the undergraduate level (spanning 2014–2020) and an active research profile in organic solar cells, plasmonics and VLSI. Seeking an Assistant Professor (Contractual) position to deliver high-quality instruction in Electronics & Communication Engineering while contributing to the department's research and academic growth.

EDUCATIONAL QUALIFICATIONS

Qualification	Board / University	Year	Score
Ph.D. — Electronics & Communication Engineering (Thesis Submitted)	National Institute of Technology (NIT), Srinagar	2020 – 2026	Thesis Submitted
M.Tech. — Electronics & Communication Engineering	Shri Mata Vaishno Devi University (SMVDU), Katra	2016	8.61 / 10 CGPA
B.Tech. — Electronics & Communication Engineering	Islamic University of Science & Technology (IUST), Awantipora	2013	8.98 / 10 CGPA
Higher Secondary (12th)	JK BOSE	2009	647 / 750 (86.3%)
High School (10th)	JK BOSE	2006	449 / 500 (89.8%)

TEACHING EXPERIENCE

Assistant Professor (Contractual) *07 Mar 2019 – 28 Feb 2020*
National Institute of Technology (NIT), Srinagar
Course(s) Taught: System Design

Assistant Professor (Contractual) *06 Mar 2018 – 31 Dec 2018*
National Institute of Technology (NIT), Srinagar
Course(s) Taught: System Design

Assistant Professor (Contractual) *25 Mar 2017 – 31 Dec 2017*
National Institute of Technology (NIT), Srinagar
Course(s) Taught: Electronics, VLSI

Assistant Professor (Contractual) *25 Mar 2014 – 31 Jul 2014*
Islamic University of Science & Technology (IUST), Awantipora
Course(s) Taught: Electronics-I

COURSES TAUGHT (SUMMARY)

- System Design
- VLSI Design
- Electronics / Electronics-I

RESEARCH PUBLICATIONS

- **Khan, B.** and Najeeb-ud-din, H. (2026). “Effect of Doping of Trimetallic Nanospheres on Optical and Field Distribution in P3HT:PCBM Organic Solar Cells.” *Vol. 60, Issue 10, pp. 1076–1085.*

- **Khan, B.** and Najeeb-ud-din, H. (2025). “Deconvoluting the Transport Mechanisms using Electrical Impedance Spectroscopy in Heterojunction Organic Solar Cells Doped with Trimetallic Nanoparticles.” *Vol. 7*, *Issue 4*, *Art. No. 0450*.
- **Khan, B.** “Coupling Plasmonics with Effective Medium Theory for Predictive Optical Modeling of Trimetallic Organic Solar Cells.” ***(Under Review)***
- **Khan, B.** “An Opto-Electronic Study of Plasmon-Enhanced Trimetallic Nanoparticles on Performance of Bulk Heterojunction Solar Cells.” ***(Under Review)***
- **Khan, B.**, Ahmed, S. and Kakkar, V. (2016). “A Comparative Analysis of Thermal Flow Sensing in Biomedical Applications.” *Vol. 3*, *Issue 3*.

AREAS OF RESEARCH INTEREST

Organic & Bulk Heterojunction Solar Cells • Plasmonics & Nanophotonics • VLSI Design • Semiconductor Device Modeling • Electrical Impedance Spectroscopy

PERSONAL DETAILS

Nationality: Indian

Languages Known: English, Urdu, Kashmiri

Permanent Address: Srinagar, Jammu & Kashmir, India

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

Baseerat Khan