



BIODATA

Dr. Shaik Ruksana Begum

B.Tech, M.Tech, Ph.D.

 ruksana.ece.414@gmail.com

 +91-8919625935

Career Objective

To contribute to academic excellence, research, innovation, and institutional development in the field of Electronics and Communication Engineering by utilizing my 5 years of teaching, research, and administrative experience.

Educational Qualifications

- **Ph.D. in Sensors and Biomedical Technology** – VIT University, 2026
- **M.Tech. in Digital Electronics and Communication Systems** – JNTUA Anantapuram
- **B.Tech. in Electronics & Communication Engineering** - JNTUA Anantapuram

Professional Experience

- **Assistant Professor, G.Pullaiah College of Engineering and Technology, Kurnool GPCET (2015–2017)**

Total Teaching Experience: 2 Years

Administrative Responsibilities

- Contributed to accreditation processes (NAAC and RAAC) at VIT University (2021–2024).
- Peer reviewer for IEEE International Conference on Next Generation Electronics (NEleX-2023).
- Mentored undergraduate students in research projects on renewable energy and sensor technologies.

Research & Publications

- **SCI/Scopus Indexed Publications (Q1): 4**
- **UGC/Peer-Reviewed Publications: 12+**
- **Book Chapters: 02**
- **Patent: 01**
- Guided UG and PG Projects
- Organized National Conferences, Workshops, and Guest Lectures

Areas of Interest

- Triboelectric and piezoelectric nanogenerators for energy harvesting and self-charging systems
- Integrated energy harvesting–storage devices (TENG–supercapacitor/battery concepts)
- Bio-inspired micro/nanostructured surfaces via soft lithography
- Polymer-based nanocomposites and functional nanofillers for energy devices
- Self-powered sensors for environmental and motion-based energy harvesting

Technical Skills

Xilinx, MATLAB, Python, C Programming, IoT Applications, COMSOL Multiphysics, Origin Pro.

Achievements

1. Dr. A.P.J. Abdul Kalam Award for research publication on triboelectric nanogenerator power management (VIT, 2023)
2. Raman Research Award for publication on biomimetic fog-harvesting sensors (VIT, 2024)
3. 2nd Prize, Paper Presentation at Mahatma Gandhi University Conference, Kerala (2022)
4. Certificate of Appreciation as Reviewer, IEEE NEleX-2023 (DST-SERB sponsored, VIT)

Personal Details

- **Date of Birth:** 13 March 1992
- **Gender:** Female
- **Marital Status:** Married

Dr. Shaik Ruksana Begum
Assistant Professor, Department of ECE
Dr. K.V. Subba Reddy Institute of Technology