

## GMU - Faculty & Staff Profile Templet



### Contact

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Phone: 6362376211

### Websites

<https://scholar.google.com/citations?user=qmQu5rQAAAAJ&hl=en>

## Dr. Vismitha S Patil

Assistant Professor, Dept. of Physics

### Faculty

Faculty of Basic and Applied Sciences

### School / Program

School of Mathematical and Physical Sciences

### Faculty Introduction

Dr. Vismitha S. Patil is a physicist specializing in nanomaterials and polymer nanocomposites. Her doctoral research at Davangere University focused on the synthesis and characterization of biodegradable polymer composites incorporating semiconductor quantum dots and metal nanoparticles for optoelectronic and sensing applications. She has developed flexible Ag/HPMC and ZnSe/HPMC nanocomposite films for humidity sensing and charge transport studies. Research contributions span materials synthesis, photophysical characterization, and environmental sensing. She has published in international journals and contributed multiple book chapters to Elsevier and Taylor & Francis. Her scientific interests lie in developing sustainable nanomaterials for environmental and electronic applications.

### Qualifications

#### Ph.D. (Specialisation)

Material Science, Davangere University, Davanagere, Karnataka, 2023

#### M. Sc. (Specialisation)

Condensed Matter Physics – Davanagere, Karnataka, 2016

#### BSc. (PCM)

Kuvempu University, Shankaraghatta, 2014

### Experience

#### Teaching

- 2 Years in Davangere University, Davanagere, Karnataka
- 2 Years at GM University, Davanagere, Karnataka

#### Industry



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#### Research

- Polymer Nanocomposites for humidity sensing, Synthesis of semiconductor alloy quantum dots for sensing.

#### Training Program Attended

- FDP on "Quantum Computing" organized Bapuji Institute of Engineering and Technology, Davangere, Karnataka in 2024

#### Research Interest

- Semiconductor Quantum Dots
- Humidity Sensing
- Biodegradable Polymer nanocomposites
- Photocatalysis

#### Awards & Achievements

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#### Publication / Patents

- Ph.D. Dissertation:
- National Conference Papers:
- International Conference Papers:
- National Journal Papers:
- International Journal Papers:

#### Professional Membership

-

#### Awards & Recognitions

-

#### Administrative Responsibilities

- Timetable Co-Ordinator, Induction Program Co-Ordinator, LEAP Co-Ordinator

#### Workshops / FDPs / Seminars Attended

- International Conference on "Nano Structured Materials and Nanocomposites" Organized by Mahatma Gandhi University, Kottayam, Kerala, India - Date: 22th – 14th September 2025 offline mode

#### Workshops / FDPs / Seminars Organized

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#### Projects Guided

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**Funded Projects / Grants Received**

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**Any Other Contributions**