

GMU - Faculty & Staff Profile



Contact

Email:

drvijayakumard.fbas.smps.phy@gmu.ac.in

Phone: 8867601753

Websites

Google Scholar:

<https://scholar.google.com/citations?hl=en&user=TM2FqvoAAAAJ>

Research Gate:

<https://www.researchgate.net/profile/Vijayakumar-Jangannanavar>

Dr. Vijayakumar D J

Assistant Professor, Department of Physics

Faculty

Faculty of Basic and Applied Science

School / Program

School of Mathematical and Physical Sciences

Faculty Introduction

Dr. Vijayakumar D. J. is an experimental physicist specializing in the synthesis and characterization of nanoparticles for advanced sensor applications. He earned his Ph.D. from VSK University, Ballari, Karnataka, India, in 2024, under the supervision of Dr. Kotresh M. G. His research has been actively supported through funded projects by the Vision Group on Science and Technology (VGST) and VSK University, enabling strong interdisciplinary collaborations with the Departments of Botany, Biotechnology and the Preclinic Research Laboratory. Dr. Vijayakumar has published his findings in reputed journals such as ACS Langmuir, Journal of Molecular Structure, Sensors and Actuators: A. Physical, and Ceramics International. He also demonstrates innovative skills through the design and fabrication of cost-effective research instruments and actively mentors M.Sc. students in experimental and project-based learning. Technically proficient in advanced characterization tools and scientific software, Dr. Vijayakumar integrates research excellence with leadership and pedagogical innovation.

Qualifications

Ph.D. (Material Science)

Vijayanagara Sri Krishnadevaraya University, Ballari, 2024

M. Sc (Nuclear Physics)

Karnataka Science College, Dharwad, 2015

B.Ed. (Physics-Mathematics)

R.T.E. S B.Ed College, Ranebennur, 2013

B.Sc. (PCM)

Karnataka Science College, Dharwad, 2012

Experience

Teaching

- 07 Years
- Lecture at B.R.E.T Degree college, Motebennur (2015-2018)
- Post Graduate Teacher at Gadag & Almatti Navodaya School (2018-2020)
- Assistant Professor at GM University (2024-Present)

Research

- Nanomaterials & Biosensing
- Material science
- Spectroscopy Physics
- Theoretical Physics (DFT, Gaussian)

Training Program Attended

- Participated in one-week AICTE sponsored online short-term training programme (STTP) on emerging trends in Nanomaterials for electronics and optoelectronics devices (Series III- Fabrication and Characterization of optoelectronic & Photonic Devices) organized by Department of Electronics & Communications Engineering, Swarnandhra College of Engineering & Technology, Kakinada from May 24-29, 2021.
- Participated in eleven days workshop on Advance Materials for Biomedical Applications- 'AMBA'2021 "Biomaterials" (Theme-2) from December 01-11, 2021 sponsored by MHRD-RUSA2.0 organized by National centre for Nanoscience and Nanotechnology University of Madras.

Research Interest

- Electrochemical Sensing
- Gas & Humidity Sensing
- Photocatalysis
- In-Vitro Bio interaction studies
- Spectroscopic Interaction studies

Awards & Achievements



- Best Oral Presentation Award at the International Conference organized by M.G.V.C college, Muddebihal, Vijaypur, Karnataka, 2024

Publication / Patents

- Ph.D. Dissertation: Spectroscopic Studies on the Interaction of Nanoparticles with Organic Molecules
- International Journal Papers: 11

Professional Membership

Awards & Recognitions

- Resource Person at Various Educational Institutes
- Reviewer for scientific journals

Administrative Responsibilities

- Department Level: Research Coordinator
- University Level: PG Manager

Workshops / FDPs / Seminars Attended

- Workshop on 'Research Opportunities and Facility Access' jointly organized by UGC-IUAC and VSK University, Ballari on 15th July, 2025.

Workshops / FDPs / Seminars Organized

Projects Guided

- UG Projects- Nil
- PG Projects-04

Funded Projects / Grants Received

Any Other Contributions