

CURRICULUM VITAE

Name: - Sarvesh Kumar Dubey

Designation: - Assistant Professor of Physics, R.H.S.P.G. College- Jaunpur, Uttar Pradesh

Father's Name: - Vikas Chand Dubey

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Research Links- [Researchgate-Profile](#)

[Google ORC-id](#)



ACADEMIC QUALIFICATIONS-

Degree	Institute/ Board	Year	Subject	Grad/Division
PhD (Pursuing)	Institute of Science, Banaras Hindu University	2020	Nanophotonic	---
Research Fellow	Dept. of Physics IIT-Bombay	2019	Nanophotonic	
M.Sc.	University of Allahabad	2017	Physics Specialized in Electronics	First
B.Sc.	University of Allahabad	2015	Physics, Maths, Geography	First
12th	UP Board	2012	Maths, Physics, Chemistry, English, Hindi	First
10th	UP Board	2009	Maths, Science, Social-Science, Hindi, English, Sanskrit	First

Project in MSc: -

Morphological Study of Mn⁺ Doped CdS Nanocrystal using TEM Photographs

Research topic: -

2D- Metamaterials and it's photonic applications

Fellowships: -

CSIR-JRF DEC 2018, GATE 2019 2021, JEST-2019

Skills: - Coding- MATLAB, C++, Python, Python-matplotlib

Software- Origin, Ansys-FDTD, COMSOL-Multiphysics

Area of Expertise: - Computational Physics, Electromagnetic Simulations of Nano-devices

Research Papers: -

- 1). A Study of Sensitivity Improved Probe Using Hyperbolic Metamaterial for Optical Fiber SPR (OFSPR)-based Refractive Index Sensor
- 2). Polarization Insensitive Metamaterial Based Electromagnetic Multiband Absorber in the long-wave infrared (LWIR) region
- 3). A Study of Highly Sensitive D-shaped Optical Fiber Surface Plasmon Resonance Based Refractive Index Sensor Using Grating Structures of Ag-TiO₂ and Ag-SnO₂
- 4). A comparative study of different types of sandwiched structures of SPR biosensor for sensitive detection of ssDNA
- 5). Enhanced Sensitivity of Surface Plasmon Resonance Biosensor for the Selective Detection of Immunoglobulin (IgG)

Conferences: -

- 1). Zinc Sulphite and WS₂ Based Surface Plasmon Resonance (SPR) Biosensor for the Detection of Biomarkers- AIP conference proceeding
- 2). A Study of Sensitivity Enhanced Optical Fiber Surface Plasmon Resonance (OFSPR) based Refractive Index Sensor: Application as a glucose sensor- AIP conference proceeding

Workshops: -

- 1). Advanced Spectroscopy-CSIR-NPL
- 2). Technical & Ethical Aspects-NASI-Lecture

Membership of Academic Bodies-

- 1). Graduate membership of Optical Society of America (OSA)
- 2). Graduate Membership of IEEE Photonic
- 3). Online Portal In-charge (College academic examinations)

Teaching: - Modern Physics, Semiconductor Physics, Analog & Digital Electronics and Microprocessor, Ray and Wave Optics, Electromagnetic Theory, Quantum Mechanics, Numerical Methods and fundamental programming in **U.G. & P.G.**