

# K.S. Saket P.G. College - Faculty Profile

Name: Dr Om Prakash Yadav

Designation: Professor & Head

Qualification: MSc, PhD

Faculty: Faculty of Science

Department: Physics

Email: dropyadav@gmail.com

Phone: 9450045817

About:

Dr. Om Prakash Yadav is an experienced academician and researcher in the field of Physics, currently serving as Professor and Head of the Department of Physics at K.S. Saket Post Graduate College, Ayodhya. He earned his Ph.D. in Physics from G.B. Pant University of Agriculture & Technology, Pantnagar, with specialization in semiconductor physics. With over 28 years of teaching experience at undergraduate and postgraduate levels, Dr. Yadav has developed a strong academic foundation and teaching excellence. Prior to joining the present institution in 2005, he served at several reputed engineering institutions in Ghaziabad. His research interests focus on semiconductor materials, particularly oxygen-related donor formation in Czochralski-grown silicon. He has extensive experience in advanced experimental techniques such as FTIR, Hall Effect, and Four Probe methods, contributing to the understanding of material properties relevant to electronic applications. Dr. Yadav has published numerous research papers in reputed national and international journals. In addition to his teaching and research contributions, he actively participates in academic administration, having served as Examination Controller, Admission Coordinator, and AISHE in-charge. He is also engaged in scientific outreach activities, including serving as a judge in the Children's Science Congress and contributing as an editor to the college magazine.

Research:

Studied the characteristics of CZ-Silicon semiconductor crystal at different temperature and ambient. Designed the furnace and used the Hall Effect, Four Probe Method and FTIR techniques to study the properties of thermal donors formed in the silicon crystal during the fabrication of electronic chips.

Publications:

Anoop Kumar Pandey, O.P. Yadav & et.al, Molecular docking, experimental FT-IR spectra, UV-Vis spectra, vibration analysis, electronic properties, Fukui function analysis of a potential bioactive agent - Proflavine. Journal of the Indian Chemical Society., 2022, 99, 10.0.396  
Rajeev Mishra, O.P. Yadav & et.al, Electro-Optical UV Spectra Analysis of Imipramine by using first Principle. Asian Resonance., 2022, Vol-II, Issue-1  
Vinod Kumar Singh and Om Prakash Yadav, Fourier Transform Infrared and Electron Paramagnetic Resonance Spectral Studies of V<sub>2</sub>O<sub>5</sub> Ion Doped Zinc-Lead-Lithium-Phosphate ((ZNPBLI) Glasses, Turkish Online Journal of Qualitative Inquiry (TQJQI), 2020, Vol.11, Issue 4, 1623-1638.  
Om Prakash Yadav & Vinod Kumar Singh, Preparation and Electrical Characterisation of Tamarind Seed Polysaccharide (TSP) Biopolymer Electrolyte, Turkish Online Journal of Qualitative Inquiry (TQJQI), 2020, Vol.11, Issue 4, 1639-1650.  
Prashant Kumar Singh, O.P. Yadav & et.al, First principal study of 2-Cyano-N-(cyclo-hexylidene) acetohydrazide by Density Functional Theory. Sri JNPG College REVELATION: A Journal of Popular Science, 2019, Vol. IV, No.-I, 1-7  
Vinod Kumar Singh, Om Prakash et.al, Solar longitudinal distribution of solar flares in association with forrush decreases. Jour. PAS (Physical Sci.) 2008, 14, 123-129.  
Vinod Kumar Singh, Om Prakash et.al, Possible observation of energy level quantization in an intrinsic Josephson junction. Jour. PAS (Physical Sci.) 2008, 14, 118-122.  
Om Prakash and S. Singh, Study of oxygen related donors in CZ-silicon annealed at 430-630 °C. SPIE Proc. International Workshop