

## CURRICULUM VITAE

**Name:** Dr. Sanjaya Kumar Satpathy

**Position:** Lecturer in Physics

**Address:** P.G. Department of Physics, Bhadrak Autonomous College,  
Bhadrak

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### **Educational Background:**

Sl. No	Degree	University/Institution	Discipline	Year of completion
1	Bachelor's degree	FAKIR MOHAN UNIVERSITY, BALASORE, ODISHA	Physics (Hons)	2007
2	Master's degree	FAKIR MOHAN UNIVERSITY, BALASORE, ODISHA	Applied Physics & Ballistics	2009
3	M.Phil.	NORTH ORISSA UNIVERSITY, BARIPADA, ODISHA	Physics	2012
4	Ph.D.	MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY, BARIPADA, ODISHA	Physics	2022

**Ph.D. thesis title:** Evolution of Optical and Magnetic Properties of ZnO Nanostructures by Rare Earth Ion Doping

### **Professional Background:**

Sl. No	Position held	Name of the Institute	Joining	held Up to
1	LECTURER	BHADRAK AUTONOMOUS COLLEGE	27/02/15	CONT...

### **Publications:**

1. **S.K. Satpathy**, U.K. Panigrahi, S.K. Panda, R. Biswal, W. Luyten, P. Mallick, Structural, optical, antimicrobial and ferromagnetic properties of Zn<sub>1-x</sub>LaxO nanorods synthesized by chemical route, Journal of Alloys and Compounds 865 (2021) 158937. <https://doi.org/10.1016/j.jallcom.2021.158937>.
2. **S.K. Satpathy**, U.K. Panigrahi, S.K. Panda, V. Thiruvengadam, R. Biswal, W. Luyten, P. Mallick, Influence of Gd doping on morphological, toxicity and magnetic properties of ZnO nanorods, Materials Today Communications 28 (2021) 102725. <https://doi.org/10.1016/j.mtcomm.2021.102725>.
3. **S.K. Satpathy**, U.K. Panigrahi, R. Biswal, P. Mallick, Investigation on the microstructural, optical and magnetic properties of Ce doped ZnO nanorods, Materialia 25 (2022) 101536. <https://doi.org/10.1016/j.mtla.2022.101536>.

4. **S.K. Satpathy**, U.K. Panigrahi, R. Biswal, P. Mallick, Tuning the Optical Properties of ZnO Nanorods Through Gd Doping, Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci. 93 (2023) 197–204. <https://doi.org/10.1007/s40010-022-00798-5>.
5. U.K. Panigrahi, D. Das, **S.K. Satpathy**, S. Panigrahi, P.K. Satapathy, S. Hussain, S.N. Sarangi, P. Mallick, Effect of Mg and rare earth ions co-doping on the structural and optical properties of ZnO nanorods, J Mater Sci: Mater Electron 35 (2024) 1876. <https://doi.org/10.1007/s10854-024-13636-8>.

### Conferences attended:

#### Sl. No

- 1 Series of Lectures on "From Tiny Atoms to Solid to Cosmos: The Quantum Aspects", through video conferencing mode, organized by Department of Physics, College of Engineering and Technology (CET), Bhubaneswar, from 1<sup>st</sup> – 5<sup>th</sup> Dec. 2020.
- 2 International webinar on "Functional Energy Materials" held during 18<sup>th</sup> – 19<sup>th</sup> Nov. 2020 at Clemson Nanomaterials Institute (CNI), Clemson University, USA.
- 3 National webinar on "Recent Developments in Physics" held on 24<sup>th</sup> Oct. 2020 at Department of Physics, Upendra Nath College, Soro, Balasore.
- 4 International virtual conference on "Frontiers in Manufacturing Technology" held during 13<sup>th</sup> – 14<sup>th</sup> Oct. 2020 at Kalinga Institute of Industrial Technology (KIIT), Deemed to be University, Bhubaneswar.
- 5 International virtual conference on "Advances in Functional Materials" held during 26<sup>th</sup> – 28<sup>th</sup> Aug. 2020 at Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar.
- 6 International webinar on "Nuclear Physics and Applications in Medicine" held during 30<sup>th</sup> July – 1<sup>st</sup> Aug. 2020 at Department of Applied Physics and Ballistics, F. M. University, Balasore.
- 7 Webinar on "Recent Advances in Nanoscience and Its applications" held during 27<sup>th</sup> – 28<sup>th</sup> July 2020 at Special Centre for Nanoscience, Jawaharlal Nehru University (JNU), New Delhi.
- 8 National seminar on "Role of Physics in Technological Advances" held during 8<sup>th</sup> – 9<sup>th</sup> Feb. 2020 at Dept. of Physics, Veer Surendra Sai university of Technology (VSSUT), Burla, Sambalpur
- 9 National workshop on "Science and Technology of Low Dimensional Systems" held during 1<sup>st</sup> – 3<sup>rd</sup> Nov. 2019 at Dept. of Physics, Siksha 'O' Anusandhan (SOA) University, Bhubaneswar.
- 10 International seminar on "Emerging Trends in Physics and Applications" held during 2<sup>nd</sup> – 4<sup>th</sup> Feb. 2019 at Dept. of Physics, Parala Maharaja Engineering College (PMEC) , Berhampur.
- 11 National seminar on "Science for Society" held during 17<sup>th</sup> – 18<sup>th</sup> Nov. 2018 at National Institute of Science Education and Research (NISER), Bhubaneswar.
- 12 TEQIP-III sponsored Five-day online Faculty Development Programme on "Frontiers in Physics Research" organized by Department of Physics, Government College of Engineering (GCE), Bargur, Tamil Nadu, from 10<sup>th</sup> – 14<sup>th</sup> Aug. 2020.