



Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Gaurav Kumar	Last Name	Upadhyay	Photograph
Designation	Assistant Professor					
Department	Physics					
Address (Campus) (Residence)	Constituent Government College, Bhadpura, Nawabganj, Bareilly					
Phone No (Campus) (Residence)						
Mobile	+91-7409196845, +91- 7983139279					
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Email	gauravphd123@gmail.com gauravkumarupadhyay@mjpru.ac.in					
Research Gate Id	https://www.researchgate.net/profile/Gaurav-K-Upadhyay					
Orcid Id	https://orcid.org/0000-0002-5672-2956					
Linkedin Id	https://www.linkedin.com/in/dr-gaurav-kumar-upadhyay-b6077920b					
Web-Page						
Educational Qualifications (Graduation Onwards)						
Course/Degree	Institution	Year	Details/Thesis Topic/Subjects			
B.Sc.	Gurukula Kangri Vishwavidyalaya, Haridwar-249404 Uttarakhand	2014	Physics, Computer Science, Mathematics, DDS			
M.Sc.	Gurukula Kangri Vishwavidyalaya, Haridwar-249404 Uttarakhand	2016	Physics			
Ph.D.	Gurukula Kangri (Deemed to Be University), Haridwar-249404 Uttarakhand	2021	Synthesis and Characterisation of ZnO/CdO-TiO ₂ Nanocomposites for Photocatalytic and Photovoltaic Applications			
Career Profile						
Organization / Institution	Designation	Duration	Role			
Constituent Government College, Bhadpura, Nawabganj, Bareilly, (A part of MJPRU), Bareilly	Assistant Professor	From 08-12-2022 to be continued...	Taught UG and PG classes & Researcher			
Doon University (A State University), Dehradun	Assistant Professor	From 05-09-2022 to 07-12-2022	Taught UG and PG classes & Researcher (Active role in NAAC data preparation)			
Gurukula Kangri (Deemed to Be University), Haridwar-249404	Assistant Professor	From 30-05-2022 to 15-06-2022	Taught UG and PG classes & Researcher			

Uttarakhand			
Research Interests / Specialization			
Condensed Matter Physics / Synthesis and Characterization of Metal Oxide Semiconductor for Photocatalytic Application and Solar Cell Application/ Sensing Application			
Teaching Experience (Subjects/Courses Taught)			
Taught PHYSICS in UG and PG classes			
S. No.	Class	Subject	Place
1.	B.Sc.	Physics	Constituent Government PG Degree College Bhadpura, Nawabganj, Bareilly
2.	M.Sc.	Mathematical Physics, Quantum Mechanics, Classical Dynamics, Advance Quantum II, Electrodynamics, Solid State Physics, Electronic and Digital Electronics, Thermal and Statistical Physics, Communication Electronic, Atomic Physics, Nuclear Physics	Constituent Government PG Degree College, Bhadpura, Nawabganj, Bareilly
3.	B.Sc. III Sem.	Thermal and Statistical Physics	Gurukula Kangri Vishwavidyalaya Haridwar
4.	M.Sc. Lab III Sem and IV Sem.	Communication I and II	Gurukula Kangri Vishwavidyalaya Haridwar
5.	B.Sc. II Sem	Electricity and Magnetism	Gurukula Kangri Vishwavidyalaya Haridwar
6.	B.Sc. IV Sem	Wave and Optics	Gurukula Kangri Vishwavidyalaya Haridwar
7.	M.Sc. Lab I Sem and II Sem	General Physics Lab	Gurukula Kangri Vishwavidyalaya Haridwar
8.	B.Sc. I year	Electricity and Magnetism	Pherupur Degree College Pherupur
9.	B.Sc. I year	Electricity and	Pherupur Degree College

		Magnetism	Pherupur
10.	B.Sc. I year	Waves and Oscillations	Pherupur Degree College Pherupur
11.	B.Sc. I year Lab	General Physics Lab	Pherupur Degree College Pherupur
12.	B.Sc. II Sem Lab	Electricity and Magnetism Lab	Gurukula Kangri (Deemed to be University) Haridwar
13.	B.Sc. IV Sem Lab	Optics lab	Gurukula Kangri (Deemed to be University) Haridwar
14.	B.Sc. VI Sem Lab	Electronics Lab	Gurukula Kangri (Deemed to be University) Haridwar
15.	M.Sc. IV Sem	Quantum II	Gurukula Kangri (Deemed to be University) Haridwar
16.	M.Sc. II Sem	Vedic Physics	Gurukula Kangri (Deemed to be University) Haridwar
17.	Integrated M.Sc. I Sem Lab	Mechanics	Doon University, Dehradun (A State University)
18.	Integrated M.Sc. I Sem Lab	Basic Instrumentations	Doon University, Dehradun (A State University)
19.	Integrated M.Sc. V Sem	Classical Dynamics	Doon University, Dehradun (A State University)
20.	M.Sc. I Sem	Quantum Mechanics	Doon University, Dehradun (A State University)
21.	M.Sc. I Sem	Quantum Mechanics II	Doon University, Dehradun (A State University)

Honors & Awards

During B.Sc. and M.Sc. received **Inspire Scholarship by Department of Science and Technology (DST) Govt. of India.**

M.Sc. Physics (**First Rank Holder/Gold Medalist- Batch-2016**) from Gurukula Kangri University, Haridwar.

Inspire Junior Research Fellow from Oct. 2016 to Nov. 2018.

Inspire Senior Research Fellow from Dec. 2018 to 07-04-2021.

Publications /Academic Activities (Numbers Only)

Books & Monographs (Single Author)	Research Papers Published in International Journals	Papers Presented in Seminars/ Conferences	Seminars/ Conferences Organized	Research Projects (Completed)	
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Books (Co-authored)	Research Papers Published in Other Journals	Seminar/ Conferences Attended	Workshops Organized	Research Projects (Ongoing)	
00	00	00	00	00	
Books (Edited)	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	Sessions Chaired in Seminars/ Conferences	Membership of Academic/ Professional Bodies	01	Foreign Countries Visited for Academic Assignments
Chapters in Edited Books		Resource Lectures Delivered			

Details of Publications /Academic Activities (2010 Onwards)

(a) Books / Monographs

Year of Publication	Title	Publisher	ISBN	Co-Author (s) (if any)

(b) Papers Published in Indexed/ Peer Reviewed Journals

Year of Publication	Title	Journal	ISSN/ Indexing	Co-Author (s) (if any)
(2022)	Sb incorporated SnO ₂ nanostructured thin films for CO ₂ gas sensing and humidity sensing applications	Journal of Alloy and Compounds	00255408	Mohini Panday, Gaurav K. Upadhyay , L.P. Purohit
(2022)	Gd-doped ZnO:TiO ₂ Heterogenous Nanocomposites for Advance Oxidation Process,	Materials Research Bulletin	00255408	Sagar Panwar, G.K. Upadhyay , L.P. Purohit
(2021)	Sustainable behavior of cauliflower like morphology of Y-doped ZnO: CdO nanocomposite thin films for CO ₂ gas sensing application at low operating temperature	Journal of Alloys and Compounds	09258388	Kumud Choudhary, Richa Saini, G.K. Upadhyay , L.P. Purohit
(2021)	Effect of Li-doping on passivation of trap states and improvement in	Parmana	03044289	Mohini Pandey, G.K.

	charge transport in TiO ₂ Thin Films			Upadhyay, L.P. Purohit,
(2021)	Wrinkle type nanostructured Y-doped ZnO thin films for oxygen gas sensing at lower temperature,	Materials Research Bulletin	00255408	Kumud Choudhary, Richa Saini, G.K. Upadhyay, Vijay S. Rana, L.P. Purohit
(2021)	rGO-ZnO nanocomposites as efficient photocatalyst for degradation of 4-BP and DEP using high temperature refluxing method in in-situ condition	Journal of Hazardous Materials	03043894	S. Kumar, R.D. Kaushik, G.K. Upadhyay, L.P. Purohit
(2021)	Optimized CdO:TiO ₂ nanocomposites for heterojunction solar cell applications	Journal of Alloys and Compounds	09258388	G.K. Upadhyay, V. Kumar, L.P. Purohit,
(2020)	Heterogeneous Ternary Metal Oxide Nanocomposites for Improved Advanced Oxidation Process under Visible Light	Crystal and Research Technology	02321300	G.K. Upadhyay, T.K. Pathak, L.P. Purohit
(2020)	Photoactive CdO:TiO ₂ nanocomposites for dyes degradation under visible light,	Materials Chemistry and Physics,	02540584	G.K. Upadhyay, J.K. Rajput, T.K. Pathak, H.C. Swart, L.P. Purohit
(2020)	Tailoring and optimization of hybrid ZnO:TiO ₂ :CdO nanomaterials for advance oxidation process under visible light	Applied Surface Science	1694332	G. K. Upadhyay, J. K. Rajput, T. K. Pathak, P.K. Pal, L.P. Purohit
(2019)	Synthesis of ZnO:TiO ₂ nanocomposites for photocatalyst application in visible light,	Vacuum	0042207X	G.K. Upadhyay, J.K. Rajput, T.K. Pathak, V. Kumar, L.P. Purohit

(c) Articles

(d) Seminar/Conference Presentations

International Conferences

1. Z- scheme based photoactive ZnO:TiO₂:CdO:g-C₃N₄ nanocomposites for advance oxidation process, **22-24 November 2023**, Department of Physics, University of Allahabad, Allahabad, (India)
2. Tailoring and Optimization of Hybrid ZnO:TiO₂:CdO Nanomaterials for Advance Oxidation Process in Visible Light, International Conference on Recent Advances in Fundamental and

Applied Sciences, **November 5-6, 2019**, Lovely Professional University, Punjab, India.

3. ZnO:TiO₂ Nanocomposite for Application in Photocatalyst Under Visible Light, International Symposium on Functional Materials, **April 13-15, 2018**, Chandigarh University, Chandigarh.

National Conferences

4. Z- Scheme based ZnO:TiO₂:CdO:g-C₃N₄ nanocomposites for advance oxidation process under visible light, National Conference on Recent Advances in Theoretical & Experimental Sciences (NCRATES-2023), **29-30 September, 2023**, Bhakt Dharshan PG College Jaiharikhal, Uttarakhand (**Awarded by Best Oral Presentation**).

5. Nanocomposites for Efficient and Low Cost Water Purification, Relevance of Veda, Science & Technology in COVID-19, **30-31 July 2020**, Gurukula Kangri Vishwavidyalaya, Haridwar, India.

6. Photoactive CdO:TiO₂ Nanocomposites for Dyes Degradation Under Visible Light, National Conference on Science & Technology: Rural Development, **February 15-16, 2020**, The Indian Science Congress Association: Haridwar Chapter Gurukula Kangri Vishwavidyalaya, Haridwar, India (**Awarded third Prize in poster presentation**).

7. Electrical, Optical and Photocatalytic Activity of ZnO/TiO₂ Thin Films Synthesized by Sol-Gel Method, XXXII annual IAPT convention 2017 and National Symposium on Recent Trends in Physics at different scales, **October 29-31, 2017**, Gurukula Kangri Vishwavidyalaya, Haridwar, India.

(e) Resource Lectures Delivered

(f) Seminars/Conferences/Workshops Organized

(g) Public Service / University Service / Consulting Activity

(h) Memberships of Academic/Professional Bodies

Life member of The Indian National Science Congress Association (ISCA).

Projects (With Title, Year, Grants, Funding Agency and Collaborations)

Administrative Positions/Assignments Held

- ❖ A **convener** of Internal Quality Assurance Cell (IQAC) Committee in CGC, Bhadpura, Nawabganj, MJPRU, Bareilly
- ❖ A **member** of Proctorial Board in CGC, Bhadpura, Nawabganj, MJPRU, Bareilly.

- ❖ A **member** of Cultural and Literary Activities Committee (CLAC) in CGC, Bhadpura, Nawabganj, MJPRU, Bareilly.
- ❖ A **member** of Internal Exam Affairs and Time Table Committee in CGC, Bhadpura, Nawabganj, MJPRU, Bareilly.
- ❖ A **member** of Career Counselling Committee in CGC, Bhadpura, Nawabganj, MJPRU, Bareilly.

Academic Foreign Visits

Any Other Details

- ✚ Successfully completed and obtained A⁺ grade in a two-week refresher course “**Managing Online Classes & Co-creating MOOCS**” conducted by Teaching learning Centre, Ramanujan College, University of Delhi in the collaboration with Bareilly College Bareilly, U.P. from 05 to 19 August 2023.
- ✚ Participated in **DST INSPIRE review meet**, Sept. 2019, organized by Department of Science and Technology, Govt. of India at Chandigarh University.
- ✚ M.Sc. Dissertation on “**Solar Power Economy in India**” at **G.K.V. Haridwar**, India.



Signature of Faculty Member