

**Miss Neha**

Guest Lecturer

Department of Physics

Govt. Ghanshyam Singh Gupt Post-Graduate  
College, Balod (C. G.)

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Personal Details	
Father's Name	Mr. Chetan lal Sahu
DOB	23 <sup>rd</sup> November 1995
Date of Joining (In GGSG College, Balod)	12 August 2024
Address	Govt. Ghanshyam Singh Gupt Post-Graduate College, Balod (C. G.), Pincode - 491226

Educational Details			
Name of the Examination	Year of Completion	Institution	Board/University
Ph. D.	2024	Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur.	Guru Ghasidas Vishwavidyalaya Koni, Bilaspur.
NET	2020	National Testing Agency	-
CG-SET	2018	Conducted by CGVYAPAM, Raipur	-
M.Sc. (Physics)		Kalyan P.G. College Bhilai Nagar (C.G.)	Durg University, Durg
B. Sc. (PCM)		Kalyan P.G. College Bhilai Nagar (C.G.)	Pt. Ravishankar Shukla University, Raipur

Subject Taught
<p><b>1. UG Level:</b></p> <ul style="list-style-type: none"> <li>➤ Thermodynamics and Statistical Mechanics</li> <li>➤ Special theory of relativity and quantum mechanics</li> </ul> <p><b>2. PG Level:</b></p> <ul style="list-style-type: none"> <li>➤ Mathematical Physics</li> <li>➤ Classical Physics</li> <li>➤ Solid State Physics</li> </ul>

Interested Subject
<p>1. Mathematical physics</p> <p>2. Classical Physics</p>

### Published Paper and Presented Work

#### (1) List of Published Paper

S. No.	Title	Author	Journal's Name
1.	"Ultrafast photodegradation of methylene blue dye and supercapacitor applications of flower like hydrothermal synthesized V <sub>2</sub> O <sub>5</sub> nano - structures on rGO as nano – composite"	<b>Neha</b> , G.R. Turpu, Pradip Das, Young-Soo Seo, Iqra Rabani, S. Shravan Kumar Reddy	Journal of Physics and Chemistry of Solids 184 (2024) 111673 (I.F. 4.0)
2.	"Photocatalytic Drug Degradation and Supercapacitor applications of FeVO <sub>4</sub> and rGO-FeVO <sub>4</sub> Nanocomposite"	<b>Neha</b> , Young Soo Seo, Sobia Nisar, R. Vijaya Kumar, P. Rambabu, Chandra S Perugu, S. Banerjee, Pradip Das, Iqra Rabani, and G. R. Turpu	ChemNanoMat, (2024) e202400106. (I.F. 3.8)
3.	"Studies into the Synergy Between MoS <sub>2</sub> -rGO-gC <sub>3</sub> N <sub>4</sub> for Photocatalytic and Supercapacitor Applications"	<b>Neha</b> , Anshu Andola, Ravi R. Pandey, Rakesh K. Pandey, P. Rambabu, Pradip Das, Iqra Rabani, G. R. Turpu	Journal of Electronic Materials, 53 (2024) 5286 (I.F.: 2.2)
4.	"rGO and g-C <sub>3</sub> N <sub>4</sub> as synergistic additives in SnS <sub>2</sub> -MoS <sub>2</sub> hybrid nanocomposites for photocatalytic and	<b>Neha</b> , Shrikanti Kavita, Anshu Andola,	Journal of Emergent Materials, 2024 (I.F.: 4.8)

	electrochemical applications: a detailed study”	Ravi R. Pandey, Rakesh K. Pandey, G. Padmaja, P. Rambabu, Pradip Das, Iqra Rabani, G. R. Turpu	
5.	“Comparative Electrochemical, Photocatalytic, and Photoluminescence Studies in SrWO <sub>4</sub> and rGO-SrWO <sub>4</sub> Nanocomposites”,	Ch. Sridhar, <b>Neha Sahu</b> , Young-Soo Seo, I. Rabani, G. R. Turpu, Shalinta Tigga, G. Padmaja	Journal of Electronic Materials, 52 (2023) 3759 (I.F. 2.1)
6.	“Electrochemical, Photocatalytic and Photoluminescence properties of BaWO <sub>4</sub> and rGO-BaWO <sub>4</sub> nano-composites: A Comparative study”	Ch Sridhar, <b>Neha</b> , Young-Soo Seo, Iqra Rabani, G.R. Turpu, Shalinta Tigga, G. Padmaja	Current Applied Physics, 58 (2024) 79. (I.F. 2.4)
7.	“Novel Pd <sub>0.1</sub> Cu <sub>0.9</sub> Co <sub>2</sub> O <sub>4</sub> nano-flake: A promising multifunctional catalyst for the electrochemical water splitting and photo-degradation reactions at ambient temperature”	Ashok Raj Patel, Sweta Bhagat, <b>Neha</b> , Geetika Patel, Gurupada Maity, Goverdhan Reddy Turpu, Ashish Kumar Singh, Subhash Banerjee.	International Journal of Hydrogen Energy, 51 (2024) 561 (I.F. 7.2)

(2) Poster and Paper Presentation in National and International conferences

S. No.	Title	Author	Conference Name
1.	Novel rGO-MoS <sub>2</sub> Nanocomposites for Photocatalytic Dye Degradation Application.	Neha	<b>19<sup>th</sup> Chhattisgarh Young Scientists Congress (CYSC-2024)</b> , Jointly organized by National Institute of Technology Raipur and Chhattisgarh Council of Science & Technology.
2.	Photocatalytic methylene blue dye degradation studies of rGO-gC <sub>3</sub> N <sub>4</sub> -FeVO <sub>4</sub> Ternary Nanocomposites.	Neha	International Conference on <b>“Nanoscience and Nanotechnology”</b> Organized by SRM Institute of Science and Technology Kattankulathur, Tamil Nadu,

3.	Photocatalytic methylene blue dye degradation studies of rGO-gC <sub>3</sub> N <sub>4</sub> -V <sub>2</sub> O <sub>5</sub> ternary nanocomposites	Neha	International Symposium on <b>“Recent Trends in Optical Materials and Photonic Devices”</b> Organized by Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur,
4.	Seven Days DST-STUTI Workshop	Neha	<b>“Material Characterization Techniques”</b> organized by Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur,
5.	Synthesis and Characterization of rGO-V <sub>2</sub> O <sub>5</sub> composites for Environmental Applications.	Neha	National symposium on <b>“Functional Materials for Sustainable Development”</b> organized by the National Academy of Sciences, India (NASI), Nagpur Chapter in association with RTMNU, Nagpur, India
6.	Synthesis and Characterization of rGO-FeVO <sub>4</sub> composites for Environmental Applications.	Neha	International Conference on <b>“Current Trends in Advanced Materials and their Applications for Societal Development”</b> (ICTAMASD-2022) organized by the Department of Physics, Dr. Harisingh Gour Vishwavidyalaya Sagar, M. P., India.

Date: 26-10-24

Place: Balod