PROFILE OF THE FACULTY MEMBER

1. Name: Dr. Deepak Kumar Yadav

2. Designation: Assistant Professor

3. Department: Physics

4. Gender: Male

5. DOB & Age : 14.08.1995

6. Contact number: 9812616240, 9079192900

7. Email : raodeepak945@gmail.com

8. Residential address: Ramdayal Sharma Colony Bhatapara

9. Area of specialization: Condensed Matter Physics

10. Educational qualification (degree onwards):

Degree	Passing year	Institution/University	
B.Sc.	2015	University of Rajasthan	
M.Sc.	2017	Central University of Haryana	
NET	2017	CSIR- UGC	
GATE	2018	IIT-G	
NET	2018	CSIR- UGC	
PhD	2025	Department of Physics, University of Rajasthan	

11. Teaching experience:

Designation	Institution	Period of work	Experience in years
Asst. Prof.	Govt. G.N.A.P.G.College,	07-06-2023 to continue	01 Years
	Bhatapara		



12. Research Paper Publication-

Visit this website for research publication with various platforms https://researchid.co/raodeepak945

- "Catalytic effect on hydrogen de/absorption properties of MgH₂ x wt% MM (x = 0, 10, 20, 30) nanomaterials" Deepak Kumar Yadav, Kanhaiya Chawla, I.P. Jain, Chhagan Lal. Environmental Science and Pollution Research, 2021;28; pp:3866-3871.
- 2. "Catalytic effect of TiO₂ on hydrogen storage properties of MgH₂" **Deepak Kumar Yadav**, Kanhaiya Chawla, Nathu Lal, BL Choudhary, Chhagan Lal. Material Today: Proceedings, **2021**;46; **pp**:2326-2329.
- 3. "Improved hydrogen de/absorption Kinetics of Magnesium (Mg) via addition of Catalyst Y₂O₃" Madhu Yadav, **Deepak Kumar Yadav**, S.N. Dolia, Chhagan Lal. Oriental Journal of Chemistry.
- 4. "Hydrogenation properties and kinetic study of MgH₂ x wt% AC nanocomposites prepared by ball milling" Kanhaiya Chawla, **Deepak Kumar Yadav**, A Bajpai, S Kumar, Chhagan Lal. Environmental Science and Pollution Research, **2021;28;** pp:3872-3879.
- 5. "Hydrogenation properties of MgH₂ x wt% AC (x= 0, 5, 10, 15) nanocomposites" K Chawla, **Deepak Kumar Yadav**, P Sharda, N Lal, S Sharma, Chhagan Lal. International Journal of Hydrogen Energy, **2020**;**45** (**44**);**pp**: **23971-23976**.
- 6. "Effect of PdCl₂ catalyst on the hydrogenation properties and sorption kinetics of Mg" K Chawla, **Deepak Kumar Yadav**, A Bajpai, I.P. Jain, Chhagan Lal. Sustainable Energy Technologies and Assessments, **2022**; **51**;**101981**.
 - 7. "Structural, optical and electrical characterizations of Mg/Ti/Ni multilayer thin films deposited by DC magnetron sputtering for hydrogen storage" MK Jangid, SS Sharma, J Ray, **Deepak Kumar Yadav**, Chhagan Lal. International Journal of Hydrogen Energy, **2023;48** (96); pp: 37921-37929.
- 8. "Degradation of dyes using biologically synthesized iron oxide nanoparticles by Manilkara zapota leaves extract" S Sharma, **Deepak Kumar Yadav**, K Chawla, N Lal, PA Alvi, Chhagan Lal. Rasayan J Chem, **2022**; **15** (3); pp: 2165-2170.
- 9. "Structural, morphological and optical properties of P3HT/MAPbI₂Cl/ZnO: GO thin films for perovskite solar cells" P Sharda, K Chawla, **Deepak Kumar Yadav**, Chhagan Lal. AIP Conference Proceedings, **2020**; **2265** (1).

- 10. "Electronic structure and surface morphology of P3HT/MAPbI₂Cl/GO-ZnO np's thin films for PSCs" P Sharda, K Chawla, **Deepak Kumar Yadav**, V Singh, I.P. Jain, Chhagan Lal. Material Today: Proceedings, **2021;42**; **pp:1682-1684**.
- 11. "Synthesis of Zinc Oxide Nanostructure via Electro-deposition Technique for Gas Sensing Switching Applications" N Lal, K Chawla, S Sharma, **Deepak Kumar Yadav**, Chhagan Lal. Oriental Journal of Chemistry, **2023**; **39** (1); **136**.

14. LIST OF WORKSHOP, SEMINAR AND CONFERENCES

- Presented a paper in International conference on "Materials for Energy Application" organized by S.S. Jain Subodh P.G. College, Jaipur from 06 to 08 December 2018.
- **Presented** a paper in **National Conference** on "Recent Advances in Material Science and Technology" Organized by Department of Physics, University of Rajasthan, Jaipur from 04 to 05 February 2019.
- Presented a paper in National Conference on "Advances in Materials Science and Technology" Organized by Department of Physics, University of Rajasthan, Jaipur from 29 February to 01 March 2020.
- 4 **Presented** a paper in **the 64th DAE Solid State Physics Symposium** Organized by Bhabha Atomic Research Centre, Mumbai held at IIT Jodhpur from 18 to 22 December 2019.
- Presented a paper in International conference on "Recent Trend in Environment and Sustainable Development" Organised by Vivekananda Global University, Jaipur from 17 to 19 October 2019.
- Participated in the 26th International Conference (online) of International Academy of Physical Sciences (CONIAPS-26) on "Advances in Applied Physics & Earth Sciences" Organized by the Department of Physics, School of Basic Sciences, Manipal University Jaipur from 18 to 20 December 2020.
- Participated in a National Workshop on Computational Electronics and Nanotechnology organized by the Department of Electronics and Communication Engineering, School of Electrical, Electronics & Communication, Manipal University Jaipur from 08 to 09 March 2019.
- 8 **Participated** in a **Winter School on Material Characterization Techniques** Organized by the Department of Physics, Manipal University Jaipur from 26 to 27 December 2020.

15. Member of various bodies -

01.	Indian Association of Physics Teacher (IAPT)	Life Member

16. Key roles/ responsibilities

S.No	Name of key role	Name of institution at which the role was held	Duration of the role	Academic year in which it was held
1	Program Officer, NSS (Boys)	Govt G.N.A.P.G. college Bhatapara	01 Years	2023 to at present

20. Member in College Committee

S.No.	Committee	Responsibility
1	Student Union Committee	Member
2	Anti-Ragging Committee	Member
3	N.S.S.	Program Officer
4	College Development & Infrastructure Committee	Member
5	SVEEP Programme	Nodal Officer
6	NEP 2020 Committee	Member
7	Guest Lecturer Selection Committee	Member

21. Orientation/Refresher courses attended -

S.N.	Name of program	ASC	Period	
			From	То
1	Faculty Development Programme	IQAC- IGGPG College Bhilai	07-10-2023	14-10-2023
2	NEP Orientation & Sensitization Programme	MMTTC- University of Rajasthan	15-04-2024	27-04-2024
3	Faculty Induction Programme (Guru Dakshata)	MMTTC- IGNTU Amarkantak	02-12-2024	31-12-2024