

## Dr. Manoj Thakur

Assistant Professor (Environment Science)

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## Profile Summary

Environment professional, educator and researcher with 16+ years of experience in biodiversity conservation, waste management, natural resource management and forest carbon stock estimation.

## Core Skills

- Project Management & Stakeholder Coordination
- Carbon Sequestration & Stock Estimation
- Biodiversity Conservation
- Waste Management & Solid Waste Audits
- IEC Campaigns
- Research Writing & Publication
- Proficient in MS Office | Basic GIS & Remote Sensing
- Languages: English, Hindi, Himachali

## Academic Qualifications

- **Ph.D. in Ecology & Environment**, Forest Research Institute (Deemed) University, Dehradun
- **M.Sc. in Environment Science**, Panjab University, Chandigarh
- **B.Sc. (Hons) in Zoology**, Panjab University, Chandigarh
- **PG Diploma in Environmental Law & Policy**, WWF India & National Law University, Delhi

## Professional Experience

- **Assistant Professor (Environment Science)**  
**Vallabh Govt. College, Mandi (April 2023 – Present)** - Teaching undergraduate students, mentoring research projects, and organizing academic events.
- **State Project Officer – UNDP India** (GoI-UNDP-GEF SECURE Himalaya Project), Shimla (**May 2018 – April 2023**)- Project lead at State Level, Stakeholder coordination, convergence with departments, and stakeholder communication. - Drafted proposals, ToRs, and monitored 18 consultancy assignments. Overall Project Planning and Management.

- **Environmental/Solid Waste Management Specialist – UNDP India**, Mandi (**March 2015 – May 2018**) - Guided Urban Local Bodies on waste management, EC/FC clearances, IEC campaigns, and SBM portal. - Developed sanitation by-laws and monitored German underground bin installation in Sundernagar.
- **Scientific Professional – State Centre on Climate Change**, Shimla (**Sept 2011 – March 2015**) - Conducted carbon stock estimation and glacial expeditions with ISRO scientists. Facilitated organization of Himachal Science Congress and Scientific outreach activities like Conclave's, Conferences, Seminars, Workshops etc.
- **Research Associate – Central Potato Research Institute**, Shimla (**May 2011 – Sept 2011**) - Conducted climate scenario simulation modelling for potato crops using Marksim, Infocrop, MagicC Softwares.
- **Research Associate – NITTR**, Chandigarh **June 2010 – May 2011** - Built biogas and reed bed systems, floating wetlands, and facilitated organization of national seminars and short term training programmes for Teachers.

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## Publications

### Conference Papers

- Thakur, M. (2024). Renewable energy technologies. 5th Paramhansa Yogananda International Conference, VGC Mandi, February 24–25.
- Thakur, M., Thakur, A., & Thakur, J. (2024). Habitat degradation and human-wildlife conflict. Int. Conf. on Biodiversity, VGC Mandi, February 14–15.
- Thakur, J., Banyal, H. S., & Thakur, M. (2024). Avian diversity in Mandi District. Int. Conf. on Biodiversity, VGC Mandi, February 14–15.
- Pant, R., Chakraborty, R., Mahar, G., Thakur, M., Parameswaran, S., & Joshi, B. (2021). Landscape management for Himalayan biodiversity. 1st IRALE Symposium. October 3–5.

### Book Chapters

- Thakur, M. (2019). Biomass and soil organic carbon in pine forests. In *Building Climate Change Resilience*, EMPRI.
- Thakur, M., Panchani, M., Narang, S., & Jamwal, R. (2024). Energy from waste. *Futuristic Trends in Management*, IIP Series, Vol. 3.
- Panchani, M., Narang, S., Jamwal, R., & Thakur, M. (2024). Biomass for energy. *Futuristic Trends in Renewable Energy*, Vol. 3.
- Jamwal, R., Panchani, M., Narang, S., & Thakur, M. (2024). Desalination technologies. *Futuristic Trends in Renewable Energy*, Vol. 3.
- Narang, S., Panchani, M., Jamwal, R., & Thakur, M. (2024). Green technologies. *Futuristic Trends in Renewable Energy*, Vol. 3.

### Research Papers

- Thakur, M. (2019). Biomass and carbon in *Cedrus deodara* forests. *Nature Environment & Pollution Technology*, 18(3), 879–887.
- Thakur, M. (2019). Biomass in *Quercus* forests. NIBES-2019, Eternal University.

### Textbook

- Thakur, M. (2023). *Introduction to Environmental Science*. Dixit Publication.

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## Certifications

- World Bank: Environmental and Social Framework
- UNDP: Legal Framework, Ethics & Integrity, Gender Journey
- UN: Human Rights, Anti-Corruption, Harassment Prevention

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## Achievements & Activities

- IGNOU Academic Counsellor (EVS Discipline)
- Facilitated notification of **1<sup>st</sup> (three) Biodiversity Heritage Sites (BHS)** of Himachal Pradesh under Project in collaboration with State Biodiversity Board.
- Facilitated Sundernagar ULB in winning **State Environment Leadership Award (2017–18) (2<sup>nd</sup> Prize)**
- Qualified **UGC-NET & ICAR-NET** in Environmental Sciences
- 7 days Field **glacial expedition** to Chotta Shigri glacier with ISRO for glacier monitoring
- Got opportunity to visit and participate in Global Wildlife Program (**GWP**) Annual Conference at **Zambia, Africa** and Global Snow Leopard Ecosystem Protection Programme (**GSLEP**), at **Bishkek, Kyrgyzstan**.
- YouTube channel “Environment Matters” for students on environmental issues.
- Poster and quiz competition awards at national seminars

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## SEMINARS/ CONFERENCES/ WORKSHOPS/TRAININGS ATTENDED:

### International Conferences

- *Spirituality and Science in Contemporary World* – VGC Mandi, 24–25 Feb 2024
- *Biodiversity & Environment for Sustainable Development* – VGC Mandi, 14–15 Feb 2024
- *Global Wildlife Program Annual Conference* – Zambia, Africa, 29 Oct–1 Nov 2018

### Faculty Development / Induction / Orientation Programmes

- *Research Methodology: Tools & Techniques* – SCVB Govt. College, Palampur, 20–28 Dec 2023
- *NEP Orientation & Sensitization* – Malaviya Mission, HPU, 23 Jan–2 Feb 2024

- *Plasma, Its Applications & Nuclear Fusion* – IPR & VGC Mandi, 16–20 Oct 2023
- *Faculty Induction Programme* – CPDHE, Delhi University, 26 Dec 2024–22 Jan 2025
- *From Chalkboards to Chatbots: A Faculty Voyage into AI* – IIT Ropar, 1–5 April 2025

### *National Seminars*

- *Sustainable Agriculture & Organic Farming* – NITTTR Chandigarh, 24–25 Mar 2011
- *Biodiversity, Green Economy & Sustainable Mountains* – IIHS, HPU Shimla, 22 Sep 2012
- *Sustainable Rural India by 2022* – NITTTR Chandigarh, 7–8 Mar 2013, Poster: *Pine Needle Biomass Briquette* – **3rd Prize Winner**
- *CHASCON-2009* – Poster on *Green Buildings*, Chandigarh

### *Workshops, Discussions & Trainings*

- *Basics of Remote Sensing & GIS (EDUSAT)* – IIRS Dehradun & S&T Shimla, Aug–Oct 2012
- *Biodiversity of Himachal Pradesh: The Way Forward* – 22–23 Mar 2013
- *UNEP-GEF-MoEF & ABS Project* – 9–10 Apr 2013
- *Snow, Glaciers & Himalayan Rivers* – Brainstorming Workshop, HP
- *Biological Diversity Act 2002 & BMCs* – Shimla, 24 Aug 2013
- *Climate Change Adaptation in the Himalayas* – HFRI Shimla, 3–4 Oct 2013
- *Biomedical Waste Management* – DEST HP, 9 Jan 2014
- *Capital Cost Accounting for Ecosystems* – DEST HP, 31 Jan 2014
- *Solid Waste Management* – PMIDC Chandigarh, 22 Sep 2015
- *Sustainable Waste Management* – UNESCO-IHE & MoUD, 17 Oct 2015

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