

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, forest carbon stock estimation and academics.

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

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
- **ICAR-NET, UGC-NET** in Environment Science

Professional Experience

- **Assistant Professor (Environment Science)**
Vallabh Govt. College, Mandi (April 2023 – Present) -Teaching undergraduate students, mentoring research projects, and organizing academic events.

Member, Board of Studies (Environment Science), Sardar Patel University, Mandi, Himachal Pradesh (2026–Present).

Academic Counsellor (Environmental Science), Indira Gandhi National Open University Study Centre **1102**, Vallabh Government College, Mandi, Himachal Pradesh (2023–Present).

- **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 – NITTTR**, 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.

Publications

Conference Papers

- **Thakur, M.** (2025). *Flood-Driven Habitat Alteration in Himalayan Rivers: Effects on Aquatic and Terrestrial Life in Himachal Pradesh*. Presented at the **International Conference on "Disaster Management: Interdisciplinary Approaches to Resilience, Recovery and Risk Reduction"**, Government Degree College, Dehar, Mandi (Himachal Pradesh), **8 November 2025**.
- **Thakur, M.** (2025). *Phytoremediation: A Sustainable Green Technology for Wastewater Treatment and Environmental Restoration*. Presented at the **Two-Day Multidisciplinary International Conference on "Climate Change and Global Water Scarcity: Threats, Challenges and Sustainable Solutions"**, Dr. Sarvepalli Radhakrishnan Government Degree College, Dharampur, Mandi (Himachal Pradesh), **26–27 September 2025**.
- **Thakur, M.** (2024). *Renewable Energy Technologies*. Presented at the **5th Paramhansa Yogananda International Conference**, Vallabh Government College, Mandi, **24–25 February 2024**.
- **Thakur, M., Thakur, A., & Thakur, J.** (2024). *Habitat Degradation and Human-Wildlife Conflict*. Presented at the **International Conference on Biodiversity**, Vallabh Government College, Mandi, **14–15 February 2024**.

- **Thakur, J., Banyal, H. S., & Thakur, M.** (2024). *Avian Diversity in Mandi District*. Presented at the **International Conference on Biodiversity**, Vallabh Government College, Mandi, **14–15 February 2024**.
- **Pant, R., Chakraborty, R., Mahar, G., Thakur, M., Parameswaran, S., & Joshi, B.** (2021). *Landscape Management for Himalayan Biodiversity*. Presented at the **1st IRALE Symposium**, **3–5 October 2021**.
- **Thakur, M.** (2019). *Biomass in Quercus Forests*. Presented at **NIBES-2019**, Eternal University, Baru Sahib (Himachal Pradesh), **2019**.

Book Chapters

- 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.
- Thakur, M. (2023). *Unit 2: Natural Resource Management* (pp. 73–141). In H. Chand, T. Kapoor, M. Thakur, & L. Singh, *Textbook on Introduction to Environment Science*. Dixit Publishing House. ISBN: 978-81-966299-0-8.
- Thakur, M. (2019). Biomass and soil organic carbon in pine forests. In *Building Climate Change Resilience*, EMPRI.

Journal Papers/Articles

- **Thakur, Manoj.** (2025). *Implementation of Environmental Legislation in Himachal Pradesh, India: An Overview*. **Voyager**, Vol. XVI, pp. 1–13. ISSN (Print): **0976-7436**; ISSN (Online): **2455-054X**. DOI: **10.31995/voyager.2025.v16.001**.
- **Thakur, Manoj, Thakur, Anil, and Thakur, Jyoti** (2024). *Habitat Degradation and Increasing Human-Wildlife Conflicts in Himachal Pradesh: A Review*. **Voyager**, Vol. XV (Special Issue, September 2024), pp. 51–67. ISSN (Print): 0976-7436; ISSN (Online): 2455-054X. DOI: 10.31995/voyager.2024.v15.SI.006.
- **Thakur, Jyoti, Banyal, Harinder Singh, and Thakur, Manoj** (2024). *Exploring Avian Diversity in Mandi District, Himachal Pradesh, India: A Review*. **Voyager**, Vol. XV (Special Issue, September 2024), pp. 68–78. ISSN (Print): 0976-7436; ISSN (Online): 2455-054X.
- **Thakur, M., & Verma, R. K.** (2019). Biomass and soil organic carbon stocks under *Cedrus deodara* forests in Mandi District of Himachal Pradesh. *Nature Environment and Pollution Technology*, 18(3), 879–887.

Textbook

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

Certifications

- World Bank: Environmental and Social Framework

- UNDP: Legal Framework, Ethics & Integrity, Gender Journey
- UN: Human Rights, Anti-Corruption, Harassment Prevention

Achievements & Activities

- IGNOU Academic Counsellor (EVS Discipline)
- Facilitated notification of 1st (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) (2nd 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

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

- **Five-Day Faculty Development Programme on "Mastering Research Methodology"**, Department of Management Studies, Syed Ammal Engineering College, Tamil Nadu, **18–22 May 2026**.
- **Six-Day Online Short Term Programme on "Sustainable Development Goals"**, UGC–Malaviya Mission Teacher Training Centre (UGC-MMTTC), Central University of Kerala, **23–28 February 2026**.
- **Short Term Programme / Faculty Development Programme on "Teaching with Technology in Higher Education"**, UGC–Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh, **11–17 October 2025**.
- **Faculty Development Programme on "From Chalkboards to Chatbots: A Faculty Voyage into AI"**, Indian Institute of Technology (IIT) Ropar, **1–5 April 2025**.
- **Faculty Induction Programme (Gurudakshita)**, Centre for Professional Development in Higher Education (CPDHE), UGC–Malaviya Mission Teacher Training Centre (MMTTC), University of Delhi, **26 December 2024 – 22 January 2025**.

- **NEP Orientation & Sensitization Programme**, UGC–Malaviya Mission Teacher Training Centre (MMTTC), Himachal Pradesh University, Shimla, **23 January – 2 February 2024**.
- **Research Methodology: Tools & Techniques**, S.C.V.B. Government College, Palampur, **20–28 December 2023**.
- **Faculty Development Programme on "Plasma, Its Applications & Nuclear Fusion"**, Institute for Plasma Research (IPR), Gandhinagar, in collaboration with Vallabh Government College, Mandi, **16–20 October 2023**.

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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