



NAVIN KUMAR JHA

Assistant Professor

(DOB: December 1st, 1974)

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Navin Kumar Jha has about seven years' experience in renewable energy education, training and research. He has been teaching renewable energy related subjects and supervising theses and projects of UG and Graduate engineering students.

EDUCATION

2022- till date **Ph.D.** (ongoing)

2012-2014 **M. Tech. in Water Resources Development** from Indian Institute of Technology (IIT), Roorkee, India

1995-1999 **BE in Mechanical Engineering** from Pulchowk Campus, Tribhuvan University, Nepal

EXPERIENCE

2018 Dec-till date **Assistant Professor**, Institute of Engineering, Pulchowk Campus

2014 July-2018 Jun **UN Volunteer** UN Mission in South Sudan

2000 Sep-2014 Jun **Mechanical Engineer** Government of Nepal

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

2007 Member, Nepal Engineering Council

2014 Lifetime Member, Indian Water Resources Society

2023 Executive Member, Society of Mechanical Engineers Nepal (SOMEN)

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

- 2025 Supervisor of M.Sc. student Dissertation title: Sustainability Assessment of Institutional Biogas Plant: A Case Study of Sundarilal Arsenal Biogas Plant
- 2025 Supervisor of M.Sc. student Dissertation title: Gender perception differences influencing behavioral intentions toward energy saving: A study of Nepalese workplace
- 2023 Supervisor of M.Sc. student Dissertation title: Environmental Impact Assessment of Biogas Plant: A Case Study of "Rastriya Gai Anusandhan Kendra Biogas Plant, Rampur Chitwan"
- 2023 Supervisor of M.Sc. student Dissertation title: A Study on Site Identification for Utility Scale Solar PV Energy Generation in Nepal
- 2022 Supervisor of M.Sc. student Dissertation title: Electrical Energy Auditing and Enhancement of Power System at Basbari Water Treatment Plant, Kathmandu
- 2023 Supervisor of bachelor students A Shrestha, A Maharjan, S Manandhar (Dissertation title: Dynamic Modelling and Performance Analysis of a Converted Electric Vehicle Driven by Induction Motor)

RECENTLY ATTENDED INTERNATIONNAL COURSES

- 2022 **Sustainability Assessment and Policy Evaluation** (6 ECTS credits), Department of Built Environment and Energy Technology Faculty of Technology, Linnaeus University, Sweden
- 2022 **Diffusion of innovations and sociotechnical transition** (6 ECTS credits), Department of Built Environment and Energy Technology Faculty of Technology, Linnaeus University, Sweden

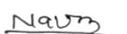
PUBLICATIONS

- 2025 Understanding household biogas failures in Nepal: A socio-technical failure mode analysis. Cleaner and Responsible Consumption (2025). <https://doi.org/10.1016/j.clrc.2025.100335>
- 2025 Jha, N.K., Lohani, S.P., Understanding the barriers in the sustained use of household biodigesters: Insight from Nepal using system thinking approach. *Energy Strategy Reviews* (2025). <https://doi.org/10.1016/j.esr.2025.101795>
- 2024 Jha, N.K., Lohani, S.P., Khatiwada, D., Pradhan, P., Shakya, S. Assessing greenhouse gas emissions and decarbonization potential of household biogas plant: Nepal's case study. *Energy for Sustainable Development* (2024). <https://doi.org/10.1016/j.esd.2024.101592>
- 2024 Jha, N.K., Mainali, B. & Lohani, S.P. Strategy for Circularity Enhancement in Bioeconomy Sector: A Case Study from Biogas Sector of Nepal. *Circ.Econ.Sust.* (2024). <https://doi.org/10.1007/s43615-024-00402-5>
- 2024 Lohani, S.P., Shaw, T.K., Shrestha, S., Dhungana B., Jha, N.K., Household biogas technology in the cold climate of low-income countries: a review of sustainable technologies for accelerating biogas generation (2024). 10.1088/2516-1083/ad407f
- 2023 Kaphle B., Jha, N.K., Environmental Impact Assessment of Biogas Plant: A Case Study of Rastriya Gai Anusandhan Kendra Biogas Plant, Rampur Chitwan
- 2023 N. K. Jha and S. P. Lohani, Sustainability Issues of Household Biodigesters in Nepal, *2023 6th International Conference on Renewable Energy for Developing Countries (REDEC)*, Zouk Mosbeh, Lebanon, 2023, pp. 18-23, doi:10.1109/REDEC58286.2023.10208182.
- 2020 N. K. Jha, "Graphical Approach in Optimization of Penstock Diameter," *International Research Journal of Innovations in Engineering and Technology (IRJIET)*, ISSN (online):2581-3048, Volume 4, Issue 8, pp 25-30, August-2020, <https://doi.org/10.47001/IRJIET/2020.408005>.

REFERENCES

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Navin Kumar Jha (19th October, 2025)