

LIZA K.C.

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PROFESSIONAL PROFILE

Forestry professional with a Master's degree in Mountain Environment and Development Studies and a Bachelor's degree in Forestry, with specialized coursework and applied research in soil conservation and engineering, watershed management, and soil-plant relationships. Combines hands-on teaching experience — as a full-time lecturer, program coordinator, and assistant professor responsible for Soil Conservation and Watershed Management / Forest Protection curricula — with field research on soil properties, allelopathy, and land degradation, and professional work in knowledge management and MRV for a World Bank-funded REDD+ program. Skilled in translating technical soil and watershed science into curriculum design, training delivery, and field-based capacity building for students and community stakeholders.

ACADEMIC BACKGROUND

M.Sc. in Mountain Environment and Developmental Studies (2019–2022)

School of Forestry and Natural Resource Management, Tribhuvan University, Nepal

Coursework with direct relevance to soil conservation and engineering teaching:

- Soil Conservation and Engineering
- Watershed Hydrology Modelling
- Climate Change
- Natural Resource Economics
- Remote Sensing and GIS
- Statistical Analysis & Research Methodology
- Project Management
- Mountain Physical Dimension (Geological Science and Hydrology)
- Human Dimension

B.Sc. in Forestry — First Division (2014–2017)

Tribhuvan University, Nepal

Coursework with direct relevance to soil conservation and engineering teaching:

- Soil Conservation and Engineering
- Soil Science
- Geology
- Watershed Management
- Forest Protection
- Tree Physiology & Forest Ecology
- Silviculture
- Community Forestry & Protected Area Management
- Remote Sensing and GIS Application in NRM
- Forest Economics, Law and Policy
- Research Methodology and Statistics

TEACHING & CURRICULUM EXPERIENCE — SOIL CONSERVATION FOCUS

Assistant Professor, Full-time faculty,— Soil and Water Conservation Engineering

Kathmandu Forestry College, under School of Forestry and Natural Resource Management (SoFNRM), Tribhuvan University | Jul 2026 – Present

- Core teaching subject: Soil and Water Conservation Engineering, delivered to undergraduate forestry students within the SoFNRM curriculum.
- Design and deliver lectures, laboratory, and field-based instruction on soil and water conservation principles, structural and vegetative conservation measures, and watershed engineering practices.

- Guide student research, field exercises, and applied projects linking soil-plant relationships and watershed processes to conservation engineering solutions.
- Contribute to curriculum review and academic planning within the School of Forestry and Natural Resource Management.

Forestry Program Coordinator & Full-Time Lecturer — Soil Conservation and Watershed Management

Lord Buddha College, under Council for Technical Education and Vocational Training (CTEVT), Nepal | Aug 2018 – Dec 2020

- Delivered the Soil Conservation and Watershed Management subject at diploma level, integrating soil conservation and land-degradation concepts drawn from personal research into classroom and field instruction.
- Provided technical guidance to diploma-level faculty and administration on the design, updating, and implementation of academic and field-training activities under the CTEVT curriculum.
- Co-designed training and field programs with partner forestry diploma institutions, using baseline field data to refine teaching approaches across different ecological contexts.
- Collaborated with community forests, national parks, buffer zones, and watershed-user communities to build skills-based, field-oriented (specifically focusing on Soil Conservation and Engineering techniques) learning content for students.
- Contributed to strategic curriculum discussions with CTEVT's forestry technical team, focused on skills assessment and youth employability in technical forestry fields.
- Led monitoring and evaluation of training delivery across forestry diploma institutions and supported program review processes (with Soil Conservation and Watershed Management Training at Bagnas Taal and Rupa Taal area of Pokhara).
- Managed budget preparation, procurement, and equipment/facilities inventory for the forestry academic program.

APPLIED RESEARCH IN SOIL CONSERVATION & SOIL-PLANT RELATIONSHIPS

- Head Researcher — "Relationship between soil properties and growth of *Mikania micrantha* under different forest management systems, Chitwan district, Nepal" (funded by NORHED, Tribhuvan University), 2020.
- Referred Publication — K.C. & Mandal (2017), "Allelopathic Effect of Extract of *Mikania micrantha* on Seed Germination, Seedling Growth and Soil Carbon and pH Estimation of *Melia azedarach*," Journal of Physical Science and Environment Studies, 3(5), 52–57.
- Research Proposal — "Role of Different Densities of Ectomycorrhizal Networks in Forest Regeneration" (field-based experimental design).
- Presentation — "Fluvial processes of geomorphology in the Hindu-Kush Himalayas (HKH)", Mountain Physical Dimension paper review, Tribhuvan University, Aug 2019.
- Field-based forest estimation, total enumeration surveys, vegetation-loss estimation, and Shannon Index biodiversity assessment — Dobhan Khola Hydropower Project IEE study.

PROFESSIONAL WORK EXPERIENCE

Knowledge Management & Communication Officer

Forest for Prosperity Project (FPP), funded by World Bank, at REDD Implementation Center (REDD-IC), Nepal | May 2024 – Jul 2026

- Established knowledge management systems, tools, and processes for capturing, organizing, and sharing project knowledge.
- Documented project outcomes, lessons learned, and success stories, including on soil, land-use, and forest-management outcomes, for organizational knowledge repositories.
- Supported MRV validation and verification for ERPA, and coordinated data collection with PMU, PPMU, DFOs, SMEs and municipal stakeholders across federal, provincial, and local levels.
- Coordinated workshops and national dialogues on climate financing, LEAF Coalition, and FPIC processes.
- Led field visits and monitoring with DFOs and Community Forest User Groups for case-study documentation and data analysis.
- Supported budget planning with local Palikas in Madhesh and Lumbini Provinces, and managed the REDD-IC web portal.

Full-Time Forest Expert

Pact Consultant Pvt. Ltd. | Nov 2022 – Mar 2024

- IEE Study, Madi-Gangate Road Project: supervised data collection on wildlife, forest composition/status, and socio-economic conditions; supervised biological-environment data analysis and reporting.
- IEE Study, Solar Panel Establishment Project: supported biological and socio-economic data collection, analysis, and report preparation.

- IEE Study, Dobhan Khola Hydropower Project: supervised environmental-expert teams on wildlife and forest-composition surveys; led forest estimation, total enumeration survey, vegetation-loss estimation (per Forest Regulation 2079), and Shannon Index biodiversity estimation.
- Supported monitoring, evaluation, and data analysis for the Solu-khola Dudhkoshi Hydropower Project.
- Supported air-quality and noise-level data analysis for the ADB Pathlaya–Narayanghat Road Project.

Visual Interpreter Expert

National Level Forest and Land Cover Analysis Program, Department of Forest Research, Nepal | Jan – Jul 2018

- Interpreted Google Earth and moderate-resolution satellite imagery for national forest and land-cover analysis.

Research/Project Assistant

Sinduli Road Corridor–Commercial Agriculture Promotion Project (SRC-CAP), Japan International Cooperation Agency (JICA), Nepal | Aug 2016 – Feb 2017

- Supported GESI research, case-study documentation, and project-planning/monitoring processes.
- Provided interpretation, translation, and transcription support for Japanese consultants during field and policy-dialogue work.
- Assisted with budget and account reporting.

ADDITIONAL RESEARCH ASSISTANTSHIPS

- Role of leaf litter from forest species and cow dung in organic manure production under aerobic conditions — pilot studies across Dolakha, Ramechhap, Sinduli, and Kavre districts, Nepal.
- Roles of female community user-group members in agricultural production and marketing — gender case studies and key-informant surveys, Sinduli road corridor.
- Tunnel tomato production and marketing across eco-physiological zones under SRC-CAP.

TRAINING & WORKSHOPS

- REDD+ Grievance Redress Mechanism (GRM), National Training of Trainers — REDD Implementation Center, Kathmandu, Mar 2026.
- Certification in Drone Handling for Carbon Accounting and MRV Data Analysis — REDD-IC / World Bank Group, Mar 2025 and Sep 2024.
- Six-Week Training on Sustainable Development Goals (SDGs) — ADB Youth for Asia, Oct–Nov 2020.
- Digital Conference, Global Landscape Forum Biodiversity — ICIMOD, Oct 2020.
- One-Week Training on R-Studio and Statistical Data Analysis — Institute of Forestry, Tribhuvan University, 2019.
- Workshop on Proposal Writing — Forest for Transformation Nepal, 2015.
- Personal and Professional Development Course — British Council, Nepal, 2013.

VOLUNTEER EXPERIENCE

- Volunteer, Climate Change Rally, Kathmandu, Nepal.
- Volunteer, Road-side Plantation Project, Kathmandu Forestry College, World Environment Day.
- Recycle Bin Establishment Initiative, Suryabinayak Ward No. 4, funded by Forest Subdivision Office, Bhaktapur.

TECHNICAL & COMPUTER SKILLS

- Soil & Watershed Modelling: HEC-RAS, HEC-GeoRAS (Disaster Modelling)
- GIS & Remote Sensing
- Statistical Analysis: SPSS
- Microsoft Office Suite
- CANVA (Design Materials)
- Adobe Premiere Pro (Documentary Editing)

PROFESSIONAL MEMBERSHIPS

- Life Member, Nepal Forester's Association (2018–present)

- Member, Bird Conservation Nepal (2013–present)

PUBLICATIONS & PRESENTATIONS

- K.C. & Mandal (2017). Allelopathic Effect of Extract of Mikania micrantha on Seed Germination, Seedling Growth and Soil Carbon and pH Estimation of Melia azedarach. Journal of Physical Science and Environment Studies, 3(5), 52–57.
- KC (2020). Proposal: Relationship between soil properties and growth of Mikania micrantha under different forest management systems in Chitwan district of Nepal. NORHED, Tribhuvan University.
- Proposal: Role of Different Densities of Ectomycorrhizal Networks in Forest Regeneration — Field-Based Experiment.
- Presentation, Bachelor's Thesis Conference, Kathmandu Forestry College, Apr 2017.
- Presentation, NORHED Proposal Presentation, Tribhuvan University, Oct 2020.
- Paper Review Presentation, Mountain Physical Dimension, Tribhuvan University, Aug 2019.

REFERENCE

Mr. Nabaraj Pudasaini

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