

Kumaun University, Nainital
Curriculum Vitae

Name : **Dr. (Smt) NEELU LODHIYAL**

Designation : **Professor**

Department : **Botany**

Contact Information

● Email Address : neelulodhiyal@gmail.com

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Scopus ID : 6602730981

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Educational Qualification

Degree	University	Subjects	Year
High School	U.P Board, Allahabad	Hindi, English, Science, Mathematics, Social science, Biology	1987
Intermediate	U.P Board, Allahabad	Hindi, English, Physics , Chemistry, Biology	1989
B. Sc.	Kumaun University, Nainital	Zoology, Botany, Forestry	1992
M.Sc.	Kumaun University, Nainital	Botany	1994
Ph. D.	Kumaun University, Nainital	Botany	2001

Work Experience

Position	Department	University/Organization	Year
Lecturer/Assistant Professor	Botany	Higher Education Uttarakhand S.V. Govt. P.G College, Lohaghat (Champawat)	29-07-2005 to 28-02-2011
Assistant Professor	Botany	D.S.B. Campus, Kumaun University, Nainital	01-03-2011 to 28-07-

			2017
Associate Professor	Botany	D.S.B. Campus, Kumaun University, Nainital	29-7-2017 to 28-07-2020
Professor	Botany	D.S.B. Campus, Kumaun University, Nainital	29-07-2020 till date

Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Assistant Superintendent	As assigned	Examination Committee, D,S,B.Campus, Kumaun University, Nainital	2013 to 2015
Assistant Director	As assigned	Environment Sciecne, D.S.B. Campus. K.U. Nainital	2018 to till date
Assistant Proctor	As assigned	D.S.B. Campus, K.U. Nainital	2019 to2022
Coordinator	As assigned	Unaat Bharat Abhiyan, Kumaun University, Nainital	2021to till date
Convenor	As assigned	KUIIC, Kumaun University, Nainital	2021 to 2023
Coordinator	As assigned	Anti-Drug Cell	2022 to2023
Honorary Librarian	As assigned	D.S.B. Campus, K.U. Nainital	2024 till date

Research Interests

(List your research interests and areas of expertise in 1-3 lines)

Forest Ecology; Agro-forestry; Working on structure of Van Panchayat forests.

Publications

a) Research Papers

Authors name	Title of the paper	Journal, vol, page no	Year
Mishra, N., Patra, S., Kumari, B.,	New Distributional records of three rare ferns	International Journal of Plant and	2023

Lodhiyal, N., Bahera S.	from Odisha, India	Environment, 9(2): 157-162	
Gupta, R., Lodhiyal, N., Tamta, S. and Mishra, N.	Optimizing variations in agronomic traits of <i>Cymbopogon flexuosus</i> and <i>Cymbopogon</i> <i>winterianus</i> in different treatments and altitude of Uttarakhand.	International Journal of Plant and Environment, 9(4):323-332	2023
Lodhiyal, L.S.,Lodhiyal, N., Gupta, R., Tamta, S.	Vegetative Propagation of Berberis asiatica Roxb. Ex DC., Ginkgo biloba L., Rauvolfia serpentina (L.) Benth Ex. Kurz, and Rhododendron arboretum Sm. through stem cuttings	Journal of Applied Research on Medicinal and Aromatic Plants, 36:100509	2023
Gwal, P., Lodhiyal, N. and Rawat, Y.S.	Assessment of Biomass Storage, Net Accumulation and Carbon Sequestration in Chir-Pine (<i>Pinus roxburghii</i> Sarg.) Dominated Community Forests of Kumaun Himalaya in relation to Climate Change.	Indian Forester, 147(7):607	2021
Kapkoti, B., Lodhiyal, N., Lodhiyal, L.S. Adhikari, B. and Rawat, P.S.	Tree species structure, composition and regeneration in Van Panchayats of Kumaun Himalaya, India.	Indian Forester, 146(9):854-860.	2020
Adhikari, B., Lodhiyal, N. and Lodhiyal, L.S.	Assessment of crop yield, productivity and carbon sequestration in agroforestry systems in Central Himalaya, India.	Agroforestry systems, 94(1): 281-296.	2020
Mishra, N., Panda, T., Lodhiyal, N. and Behera, S.K.	Studies on the gametophytic development, mating behaviour and reproductive biology of <i>Macrothelypteris</i> <i>torresiana</i> (Gaudich.)	Micron, micron.2019.102700.	2019

	Ching (Thelypteridaceae).		
Gwal, P., Lodhiyal, N. and Rawat, Y.S.	Biomass and carbon storage potential of oak-pine forests in Kumaun Himalaya, India.	Indian Journal of Forestry, 42(3): 251-254.	2019
Adhikari, B., Lodhiyal, N. and Lodhiyal, L.S.	Carbon sequestration efficiency of agri-horticulture system in Shiwalik plain of Central Himalaya, India.	Indian Journal of Agroforestry, 21(1): 75-80.	2019
Adhikari, B., Lodhiyal, N., Kapkoti, B., Lodhiyal, L.S. and Rawat, P.S.	Population structure and regeneration of <i>Mallotus philippensis</i> in sal forests of Kumaun Himalaya.	The Indian Forester, 144(12): 1158-1161.	2018
Adhikari, B., Kapkoti, B., Lodhiyal, N. and Lodhiyal, L.S.	Diversity of Herbs in some sal forests in Shiwalik region of Central Himalaya, India.	Journal of Non-Timber Forest Products, 25(1): 41-45.	2018
Bhakuni, N and Lodhiyal, N.	Ecological Regeneration Trends of multiple tree size and structure in central Himalaya, India.	Environment and Ecology, 36(2A): 657663.	2018
Lodhiyal, L.S., Lodhiyal, N., Lal, B. and Pandey, J.	Leaf decomposition and nutrient release of poplar plantations in moist plain area of Central Himalaya, Uttarakhand	Indian Journal of Ecology, 44(2):330-336.	2017
Lodhiyal, N., Lodhiyal, L.S., and Adhikari, B.	Forest Floor Biomass, Litter Input and Nutrient Pattern in Shisham Forest Plantations in Bhabar Region of Kumaun Himalaya.	Journal of Environment and Bio-Sciences, 31(1): 17-22.	2017

Adhikari, B., Kapkoti, B., Lodhiyal, N. and Lodhiyal, L.S.	Structure and Regeneration of Sal (Shorea robusta Gaertn f.) Forests in Shiwalik Region of Kumaun Himalaya, India.	Indian Journal of Forestry, 40(1):1-8.	2017
Gwal, P., Lodhiyal, N., Rawat, Y.S. and Adhikari, B.	Structure and Diversity of Sal Forests in Government and Community Management Systems in Kumaun Region of Central Himalaya.	Current World Environment 11(3): 784-790.	2016
Kapkoti, B., Adhikari, B. Lodhiyal, N. and Lodhiyal, L.S.	Structure and Diversity of Sal Forests in Government and Community Management Systems in Kumaun Region of Central Himalaya.	Current World Environment, 11(1):126-132.	2016
Lodhiyal, N., Gupta, S., Lodhiyal, L.S., Kapkoti, B. and Bhakuni, N.	Assessment of ecological parameters of crofton weed along the road-side forests of Kumaun Himalaya.	Indian Journal of Weed Science, 48(4): 410-416.	2016
Lodhiyal, N. Dhek, S., Lodhiyal, L.S., Bhakuni, N. and Kapkoti, B.	Species diversity and regeneration of Tilonj- Oak (Quercus floribunda Lind.) dominated forests of Nainital in Kumaun Himalaya.	International Journal of Biodiversity and Conservation, 7(1): 21-27.	2014
Lodhiyal, L.S. and Lodhiyal, N.	Impact of varying densities of poplar (Populus deltoides) plantation on soil physic- chemical properties in the Tarai region of Uttarakhand.	Indian Journal of Soil Conservation, 42(03): 298-304.	2014
Kapkoti, B., Lodhiyal, N. and Lodhiyal, L.S.	Ethno-medicinal plants and their uses by Van Panchayat people in Nainital of Kumaun Region Uttarakhand	Bio life, 2(2): 526- 532.	2014

Lodhiyal, L.S., Lodhiyal, N. and Bhakuni, N.	Standing tree biomass and carbon content in natural forests of Kumaun in central Himalaya.	Journal of Plant Development Sciences, 5(04): 167-174.	2014
Lodhiyal, L.S. and Lodhiyal, N.	Ecotourism in Protected areas and natural ecosystems.	Oaks, 9:32-36.	2013
Lodhiyal, L.S., Lodhiyal, N. and Kapkoti, B.	Structure and Diversity of Tree species in natural forests of Kumaun Himalaya in Uttarakhand.	Journal of Plant Development Sciences, 5:97-105.	2013
Bargali, K., Lodhiyal, N., Parihaar, R. and Kapkoti, B.	Indigenous Traditional knowledge on some medicinal plants from Kotabag Block (Ramnagar) Nainital.	International Journal of Biology, Pharmacy and Allied Sciences, 2(1): 20-25.	2013
Lodhiyal, L.S., Lodhiyal, N., Bargali, K. and Bargali, S.S.	Forest conservation and management practices in Uttarakhand.	ENVIS Bulletin Himalayan Ecology, 20:30-32.	2012
Lodhiyal, N.	Forest floor, litter fall and nutrient dynamics in young aged Shisham forests in moist plain area of Kumaun of Uttarakhand.	Indian Journal of Forestry, 35(3): 321-330.	2012
Lodhiyal, L.S. and Lodhiyal, N.	Tree layer composition and carbon content of oak and pine in Lohaghat forests of Kumaun Himalaya.	Journal of Plant development Science, 4(1): 55-62.	2012

Lodhiyal, L.S. and Lodhiyal, N.	Rhododendron arboreum (Burans), a keystone species of Uttarakhand Himalaya.	Oaks, (8):121-130.	2012
Lodhiyal, L.S., Lodhiyal, N., Bargali, K. and Bargali, S.S.	Significance of forest ecosystem services in conservation and sustainable development.	Oaks, 7:41-45	2011
Lodhiyal, N.	People's participation in watersheds for sustainable development of natural resources and climate change perspectives.	Quest: The journal of UGCASC Nainital.	2010
Bohra, C.S., Lodhiyal, L.S. and Lodhiyal, N.	Forest Stand Structure of Shiwalik region of Nainital district along an Altitudinal Gradient in Indian Central Himalaya.	New York Science Journal, 3(2): 82-90.	2010
Lodhiyal, N.	Ecological significance of Shisham forests with reference to the productivity and carbon sequestration potential.	Oaks, 6:46-48.	2010
Lodhiyal, L.S. and Lodhiyal, N.	Joint forest management and forest plantation: An alternative pathway for sustainable natural resource conservation and development in Uttarakhand.	Quest: The journal of UGC-ASC Nainital, 3(1):42-60.	2009
Lodhiyal, N. and Lodhiyal, L.S.	Aspects of nutrient cycling and nutrient use pattern of Bhabar Shisham forests in Central Himalaya, India.	Forest Ecology and Management, 176: 237-252.	2003
Lodhiyal, N. and Lodhiyal, L.S.	Biomass and net primary productivity of Bhabar Shisham forests in Central Himalaya, India.	Forest Ecology and Management, 176: 217-235.	2003

Lodhiyal, L.S., Lodhiyal, N. and Singh, SK.	Litter dynamics and nutrient return of Poplar plantations in moist plain area of Uttaranchal Central Himalaya.	The Indian Forester, 128(11):1183-1194.	2002
Lodhiyal, L.S., Lodhiyal, N. Sanjay K. Singh and Koshiyari, R.S.	Forest floor biomass, litter fall and nutrient return through litters of high density Poplar plantations in Tarai of Central Himalaya.	Indian Journal of Forestry25(3): 291- 303.	2002
Lodhiyal, N., Lodhiyal, L.S. and Pangtey, YPS.	Structure and Function of Shisham forests in Central Himalaya, India: Nutrient Dynamics.	Annals of Botany 89:55-65.	2002
Lodhiyal, N., Lodhiyal, L.S. and Pangtey, YPS.	Structure and Function of Shisham forests in Central Himalaya, India: Dry Matter Dynamics.	Annals of Botany, 89(1): 41-54.	2002
Lodhiyal, L.S. and Lodhiyal, N.	Plant diversity, productivity and nutrient cycling of short lived species under poplar plantations in Tarai region of central Himalaya.	Indian Journal of Tropical Biodiversity, 9(1-4): 8-17.	2001
Lodhiyal, L.S., Singh, S.P. and Lodhiyal, N.	Phenology, population structure and dynamics of ringal bamboo (<i>Arundinaria falcate</i> Nees) in Nainital Hills of Central Himalaya.	Tropical Ecology, 39(1): 109-115.	1998
Lodhiyal, L.S. and Lodhiyal, N.	Aspects of productivity and nutrient cycling of poplar (<i>Populus deltoides</i> Marsh) plantation in moist plain area of Central Himalaya, <i>Oecologia</i> Montana, 6:28-34.	<i>Oecologia Montana</i> , 6:28-34.	1997

Lodhiyal, L.S. and Lodhiyal, N.	Variation in biomass and net primary productivity of short rotation high density central Himalayan poplar plantation.	Forest Ecology and Management, 98:167-179.	1997
Lodhiyal, L.S. and Lodhiyal, N.	Nutrient cycling and nutrient use efficiency in short rotation high density central Himalayan Tarai poplar plantations.	Annals of Botany, 79:517-527.	1997

b) Patents: **NIL**

c) Books: **NIL**

d) Book chapters

Authors name	Title of the book	Publisher	ISBN	Year
Lodhiyal, N., Lodhiyal, L.S., Pandey P.K., Adhikari, B. and Siddiqui F.	Natural Products and their utilisation pattern.	Nova Science Publishers, USA	978-1-53618-140-1	2020
Lodhiyal, N., Bhakuni, N., Kapkoti, B. and Lodhiyal, L.S.	Human Rights and Challenges of women in India	Anamika Distributers and Publishers Pvt. Ltd.	978-81-7975-961-1	2019
Adhikari, B., Lodhiyal, N. and Lodhiyal, L.S.	Ecological Ignorance in Development Raising Disastrous Possibilities	Anamika Distributers and Publishers Pvt. Ltd. pp 01-13	978-81-7975-894-6	2017
Lodhiyal, L.S., Lodhiyal, N. and Pathak, G.C.	Globalization and marginalization in mountain regions: Assets and Challenges in Marginal Regions	Springer International Publishing Switzerland. pp 205-	978-3-319-32649-8	2016

		227.		
Lodhiyal, N., Bhakuni, N., Kapkoti, B. and Lodhiyal, L.S.	Sustainable Development in Indian Himalayan Region: Prospects and Challenges	Jagdamba Publishing Company, New Delhi. pp 297-304.	978-93-8543-705-2	2016
Lodhiyal, L.S., Pandey, J. Lodhiyal, N. Lal, B and Bhakuni, N.	Climate change: Socio economic and environmental issues- Problems and challenges	Mohit Publications, New Delhi. pp 35-63.	978-81-7445-695-3	2015
Lodhiyal, L.S., Mohanty, T.L., Lodhiyal, N. Lal, B. and Kapkoti, B.	Climate change: Socio economic and environmental issues- Problems and challenges	Mohit Publications, New Delhi. pp 103-124.	978-81-7445-695-3	2015
Bhakuni, N. Lodhiyal, N. and Lodhiyal, L.S.	Climate change: Socio economic and environmental issues- Problems and challenges	Mohit Publications, New Delhi.161-175.	978-81-7445-695-3	2015
Kapkoti, B., Lodhiyal, N. and Lodhiyal, L.S.	Climate change: Socio economic and environmental issues- Problems and challenges	Mohit Publications, New Delhi,176-185.	978-81-7445-695-3	2015
Lodhiyal, L.S., Lodhiyal, N. and Pandey, S	Conservation and development of Van Panchayat village forests through join forest management in Kumaun of Uttarakhand.	Environment, Development and Society (eds. B.L. Sah, D.U. Joshi and R. Sah).	978-81-920509-0-4	2011

e) Conference Publications/Proceedings

Authors name	Title of the paper	Conference name	Year
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Adhikari, B., Lodhiyal, N. and Lodhiyal, L.S.	Agroforestry System: Link between Development and Environment.	Socio-Economic Impact of Ecological Ignorance in Development: Raising Disastrous Possibilities	2017
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Projects

Title of the project	Funding agency	Amount (Rs)	Year
Conservation, propagation and rehabilitation of rare, endemic and threatened plant species in the Himalayan Botanical Garden in Nainital of Uttarakhand.	BSI, MOEF&CC	40,96,000	2019-2022

Teaching details

Name of the course/paper	Department	University	Year
B.Sc	Botany	Kumaun University	
Algae and Bryophyta	Botany	Kumaun University	2011 to 2021
Cytogenetics and Plant Breeding	Botany		2011 to till date
Microbes, Algae, Fungi and Bryophytes	Botany	Kumaun University	2022 to till date
M.Sc.	Botany		
Diversity and Taxonomy of Angiosperms	Botany	Kumaun University	2011 to till date
Plant Physiology and Biochemistry	Botany	Kumaun University	2011 to till date

Professional Memberships

Organization	Position	Year
ISCA	Member	2012
Quest	Member	2011
Oaks	Member	2011

Honours and Awards: NIL**Conference Presentations :**

Title of presentation	Conference name	Name of the institution	Year
Forest tree composition and carbon sequestration of forests in Lohaghat of Champawat District in Kumaun, Uttarakhand.	Research Methods in Forestry and Climate Change	Kumaun University	2010
Conservation and Development of Van Panchayat village forest through joint forest Management in Kumaun of Uttarakhand	Environment Development and Society	Kumaun University	2010
Plant diversity and vegetation composition of Shiwalik forests along an altitudinal gradient in Kumaun of Uttarakhand (India)	IGU Conference	Kumaun University	2011
Changes in soil properties and species composition in different vegetation layer of Shisham forests in Tarai Kumaun of Uttarakhand	Geology and Geo-resources of Himalaya and Cratonic regions of India	Kumaun University	2012
Meteorological observation of temperature and rainfall with special reference to the climate change of Ramnagar division in Kumaun Himalaya.	Climate Change: Socio Economic and Environmental issues Problems and challenges	Meerut College, Meerut	2013
Carbon Sequestration in Poplar..... Central Himalaya	13 th Silviculture Conference	ICFRE, Dehradun	2014

Biomass productivity..... Uttarakhand	Holistic Development of Agroforestry: Potential and Policy Issues	Kumaun University	2015
Assessing role of women..... Kumaun Himalaya	Challenges of women in the Himalayan region	Kumaun University	2015
Productivity and carbon.....regions of Uttarakhand	Climate change Education- 2015	Kumaun University	2015
Agroforestry System: Link Between Development and Environment	Socio-Economic Impact of Ecological Ignorance in Development: Raising Disastrous Possibilities	Kumaun University	2017
Agroforestry system: a way to sustainable development.	International Seminar on “Environmental Governance and Sustainable Development in 21 st Century India: Challenges for the Mountain Regions in the Anthropocene” organized by Uttarakhand Political Science Association (UPSA) in conjunction with UGC-Human Resource Development Centre, Kumaun University, Nainital	Kumaun University	2017
Carbon sequestration potential in Agroforestry system	National Seminar on “Century of Asians: Role and Impact of Asian Countries (With special reference to BRICS and UN), by UPSA in conjunction with UGC- Human Resource Development Centre, Kumaun University, Nainital”	Kumaun University	2018

Carbon sequestration potential of agrihorti-silviculture system in Kumaun Himalaya, India	International Conference on “Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security (GAAFES,2019)” organized by AETDS US Nagar & Kumaun University, Nainital	Kumaun University	2019
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Prof. Neelu Lodhiyal

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