

Kumaun University, Nainital

Curriculum Vitae

Name : Laxman Singh Lodhiyal
Designation : Professor
Department : Department of Forestry and Environmental Science
Contact Information
• Email Address : lsodhiyalforestry@gmail.com
• Mobile No : 9410373658
LinkedIn Profile (Optional) : laxman-lodhiyal
ORCID ID : 0000-0002-9574-0620
Scopus ID : 6603929051
Vidwan ID : NIL

Educational Qualification

Degree	University	Subjects	Year
B.Sc.	KU, Nainital	Zoology, Botany, Chemistry	1983
M.Sc.	KU, Nainital	Botany (Forest ecology)	1985
Ph.D.	KU, Nainital	Botany (Forest ecology)	1992

Work Experience (add row if required)

Position	Department	University/Organization	Year (From-To)
Lecturer & Campus Head	Department of Forestry	SSJ campus KU, Almora	1999-2001
Lecturer/Assistant professor	Department of Forestry	DSB Campus, KU. Nainital	2001-2003
Senior Lecturer/ Senior Assistant professor	Department of Forestry	DSB Campus, KU. Nainital	2003-2008
Reader	Department of Forestry	DSB Campus, KU. Nainital	2008-2011
Associate professor	Department of Forestry	DSB Campus, KU. Nainital	2011-2014
Professor	Department of Forestry	DSB Campus, KU. Nainital	2014 Till date
Coordinator of NSS	As assigned	NSS, DSB Campus, KU. Nainital	2008-2011
Admission Committee	Faculty of Science	B.Sc. I, II, III, DSB Campus, KU. Nainital	Since 2002 till date
Campus Head	Department of forestry	DSB Campus, Nainital	2015-2017
Convener & Head	Department of Forestry	Kumaun University, Nainital	2017-2021

Administrative Responsibilities (add row if required)

Position	Nature of responsibility	University/Organization	Year
Assistant Proctor	As assigned	Proctorial Board, DSB Campus, Kumaun University, Nainital	2005-2014
Assistant DSW	As assigned	DSB Campus, Nainital	2012-2015
Assistant Superintendent	As assigned	Examination, DSB Campus, Nainital	2012-2014
Assistant DSW	As assigned	DSB Campus, Nainital	2016-2021
Director	DIC	Kumaun University, Nainital	2019
DSW	As assigned	DSB Campus, Kumaun University, Nainital	2022-2023
Nodal officer	Anti-drug cell,	Kumaun University, Nainital	2022-2023
Public information officer (PIC)	As assigned	DSB Campus, Kumaun University, Nainital	2022-2023

Research Interests

(List your research interests and areas of expertise in 1-3 lines)
 I specialize in exploring the dynamics of forest Ecology, ecosystem and energy plantation. The integration of agroforestry practices for sustainable development, Joint Forest Management (JFM) and watershed management techniques to enhance the environmental sustainability and resilience of climate change issues.

Publications (start from recent publications)

a) Research Papers (add row if required)

Authors	Title of the paper	Journal, vol, page no	Year
Lodhiyal, L.S., Gupta, R., Lodhiyal, N., Tamta, S., Siddiqui, F., & Chauhan, H.S.	Vegetation propagation of <i>Berberis asiatica</i> Roxb. Ex DC., <i>Ginkgo biloba</i> L., <i>Rauvolfia serpentina</i> (L.) Benth ex Kurz, and <i>Rhododendron arboreum</i> Sm. through stem cuttings	Journal of Applied Research on Medicinal and Aromatic Plants,	2023
Siddiqui, F., & Lodhiyal, L.S.	Tree Structure Analysis, Biomass and Carbon Stock of Sal Forests in Central Himalayan Region	Current World Environment, 18(1):107-115	2023
Adhikari, B., Lodhiyal, N., & 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
Kapkoti, B., Lodhiyal, N., Lodhiyal, L.S., Adhikari, B., & 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.	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. 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.	2019
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
Adhikari, B., Lodhiyal, N., Kapkoti, B., Lodhiyal, L.S. and Rawat, P.S.	Population structure and regeneration of Mallotus philippensis in sal forests of Kumaun Himalaya	The Indian Forester, 144(12): 1158-1161	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(1)	2017
Kapkoti, B., Adhikari, B. Lodhiyal, N. and Lodhiyal, L.S.	Structure and diversity of Sal forest in government and community management systems in Kumaun Region of Central Hiamlaya	Current World Environment, 11(1):126-132	2016
Lal, B., & Lodhiyal, L.S.	Vegetation structure, biomass and carbon content in Pinus roxburghii Sarg. Dominant forests of Kumaun Himalaya	Environment & We: An International Journal of Science & Technology 10: 117-12	2015
Pandey, J., & Lodhiyal, L.S.	Vegetation structure and regeneration of Van Panchayat forests in Kumaun Himalaya, Uttarakhand	International Journal of Environment, 4: 69-80	2015
Kapkoti, B., Lodhiyal, N. and Lodhiyal, L.S.	Ethno-medicinal plants and their uses by Van PANCHYAT people in Nainital of Kunaun Region Uttarakhand	Biolife 2(2):526-532	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
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., 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(02):97-105	2013
Lodhiyal, L.S. and Lodhiyal, N.	Ecotourism in Protected areas and natural ecosystems.	Oaks, 9:32-36.	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, 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
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
Joshi, NR., Lodhiyal, L.S. , & Singh, B.	Non timber forest products (NTFP'S) in low land of Kanchanpur district of Nepal: Indigenous Use and conservation	World Rural Observations 2(2):6-22	2010
Bohra, C.S., Jina, B.S., & Lodhiyal, L.S.	Estimation of total carbon stockpile and sequestration rates in degraded and non-degraded sites of oak and pine forests of Kumaun Central Himalaya	Indian Forester 137(1): 66-70	2011
Lodhiyal, L.S.	Biodiversity Conservation and Management of Forests: the Significance of Participation of Stakeholders and Communities	Quest-the journal of UGC-ASC Nainital 5(1) 49-81	2011
Lodhiyal, L.S.	Certain intercropping characteristics of Poplar plantations in Tarai agro forestry system in Kumaun of Uttarakhand	Science and technology in Uttarakhand	2009
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, L.S. , & Singh, P.	Biomass and carbon allocation in 8-year-old Poplar (<i>Populus deltoides</i> Marsh) plantation in Tarai agroforestry system of Central Himalaya, India	New York Science Journal, 2(6): 49-53	2009
Lodhiyal, L.S. , & 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, ASC-Nainital (India)	2009
Maya, N., Singh, N., & Lodhiyal, L.S.	Conservation and management study of high altitude Nainital Zoo (Uttarakhand) with special reference to ecotourism	Nature and Science 7(6):39-42	2009
Bisht, S., & Lodhiyal, L.S.	The Various aspects of soils and tree layer vegetation analysis in reserve forests in the Nainital district of Kumaun in Central Himalaya	Indian Journal of Forestry 28 (1):37-50	2005
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, 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, L.S.	Sustainable development of forests in Uttaranchal and Uttar Pradesh through Joint Forest Management (JFM) programme	Aspects of Geology and Environment of the Himalaya (eds: C.C. Pant & A.K. Sharma) Page: 359-382	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 Forestry 25(3): 291-303.	2002
Lodhiyal, L.S. Lodhiyal, N., and Singh, S.K.,	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, N., Lodhiyal, L.S. and Pangtey, Y.P.S.,	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, Y.P.S.	Structure and Function of Shisham forests in Central Himalaya, India: Dry Matter Dynamics	Annals of Botany, 89: 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 falcata</i> Nees) in Nainital Hills of Central Himalaya	Tropical Ecology, 39(1): 109-115	1998
Lodhiyal, N., & Lodhiyal, L.S.	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., & Lodhiyal N.	Aspects of productivity and nutrient cycling of poplar (<i>Populus deltoides</i> Marsh) plantation in moist plain area of central Himalaya	Oecologia Montana, 6:28-34	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
Lodhiyal, L.S., Singh, R.P., and Singh, S.P.	Structure and Function of an Age series of Poplar Plantations in Central Himalaya: I. Dry Matter Dynamics	Annals of Botany, 76:191-199	1995
Lodhiyal, L.S., Singh, R.P., and Singh, S.P.	Structure and Function of an Age series of Poplar Plantations in Central Himalaya: II. Nutrient Dynamics	Annals of Botany, 76:201-210	1995
Lodhiyal, L.S., Rana, B.S., and Singh, R.P.	Dry matter production in a Poplar (<i>Populus deltoides</i> Marsh) plantation of Central Himalayan Tarai	The Indian Forester, 121:383-389	1995

Rana, B.S., Lodhiyal, L.S. , and Singh, R.P.	Certain experiments on Nursery Techniques for propagation of Poplar plants from shoot cuttings	The Indian Forester, 121:634- 642	1995
Lodhiyal, L.S. , Singh, R.P., and Singh, S.P.	Productivity and nutrient cycling in Poplar stands in Central Himalaya, India	Canadian Journal of Forest Research, 24:1199-1209	1994
Lodhiyal, L.S. , Singh, R.P., and Singh, S.P.	Impact of tree spacing on biomass and productivity of Poplar plantations in subtropical monsoon environment	Indian Journal of Tropical Biodiversity, 2:337-346	1994
Lodhiyal, L.S. and Singh, R.P.	Biomass, productivity and litter fall in 9-year-old cottonwood plantation in Tarai Plains area of Central Himalayas	Advances in Forestry Research in India, 9:199-218	1993
Rana, B.S., Singh, R.P., and Lodhiyal, L.S.	Comparison of Biomass Estimates by using two regression equations	Journal of Tree Sciences, 12(1):13-22	1993
Lodhiyal, L.S. , Singh, R.P. and Rana, B.S.	Biomass and Productivity in age series of short rotation Populus deltoides plantations	Tropical Ecology, 33(2):214- 222	1992

b) Patents (start from recent publications) **(add row if required): NIL**

c) Books (start from recent publications) **(add row if required): NIL**

d) Book chapters (start from recent publications) **(add row if required)**

Author(s)	Title of Book/Chapter	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 205-227.	978-3-319- 32649-8	2016
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
Chhetri, R. and Lodhiyal, L.S.	Collection of Cordyceps sinensis (Berk.) Sacc. (Yarsagumba) and its implication to rural livelihood biodiversity conservation	Medicinal plant in Nepal, An anthology of Contemporary Research	9937206871	2008
Lodhiyal, L.S.	Certain intercropping characteristics of Poplar plantations in Tarai agroforestry system	Science and technology in Uttarakhand (Eds. Mehendra Dobal and BS Kotilya)	N/A	2009

e) Conference Publications/Proceedings (start from recent publications) **(add row if required)**

Authors name	Title of the paper	Conference name	Year
Lodhiyal, L.S., Lodhiyal, N. and Pathak, G.C.	Plant diversity and vegetation composition of shivalik forest along an altitudinal gradient in Kumaun of Uttarakhand, India	IGU	2012
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

Projects (add row if required)

Title of the project	Funding agency	Amount (Rs)	Year
"Plant diversity and productivity aspects of Shiwalik forests of Kumaun with special reference to the ecological significance and management in Central Himalaya"	CSIR Sanction No. 38(1032)/02 EMR-II dated 09-08-2002).	Rs 8 lacs	2002-2005
"Impact of climate on the vegetation and flora of Nainital and Bageshwar districts in Kumaun hills (Uttaranchal)"	(Sanction letter No: DST/IS-STAC/U-PROBE/NC-5/02 dated 01-04-2004)	21 Lacs	2004-2009
"Conservation, propagation and rehabilitation of rare, endemic and threatened plant species in the Himalayan Botanical Garden in Nainital of Uttarakhand"	BSI, MOEF&CC	40,96000	2019-22

Teaching details (add row if required)

Name of the course/paper	Department	University	Year
B.Sc.			
Forest ecology	Department of Forestry	SSJ Campus, KU. Nainital	1999-2001
Forest management	Department of Forestry	SSJ Campus, KU. Nainital	1999-2001

Wild life management	Department of Forestry	SSJ Campus, KU. Nainital	1999-2001
Forest mensuration	Department of Forestry	SSJ Campus, KU. Nainital	1999-2001
B.Sc.			
Social forestry and Agroforestry	Department of Forestry	DSB Campus, KU. Nainital	2001 till date
Forest ecology	Department of Forestry	DSB Campus, KU. Nainital	2001
Forest management	Department of Forestry	DSB Campus, KU. Nainital	2001
Forest protection	Department of Forestry	DSB Campus, KU. Nainital	2001 till date
Forest Legislation and policy	Department of Forestry	DSB Campus, KU. Nainital	2001
M.Sc.			
Agroforestry and social forestry	Department of Forestry	DSB Campus, KU. Nainital	2001 till date
Watershed management	Department of Forestry	DSB Campus, KU. Nainital	2001 till date
Plantation forestry	Department of Forestry	DSB Campus, KU. Nainital	2001 till date
PG. Diploma in mountain ecosystem and climate change			
Mountain ecosystem	Department of Forestry	DSB Campus, KU. Nainital	2014

Professional Memberships (add row if required)

Organizations	Year /Status of the membership
ISCA	Life membership,2011
Quest	Life membership,2011
Oaks	Life membership,2011
Indian Association of soil & water conservation	Life membership, 2014

Honours and Awards (add row if required)

Award	Awarding Organization	Year
State Scientist award in Forestry and Environmental Science	UCOST	2007
National Silviculture Award	ICFRE	2014

Conference Presentations (add row if required)

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 of Uttarakhand	"Research Methods in Forestry and Climate Change	Department of Forestry, K.U. Nainital	2010
Plant diversity and vegetation composition of Shiwalik forests along an altitudinal gradient in Kumaun of Uttarakhand (India)	IGU Conference	Department of Geography, Kumaun University, Nainital	2011
Intellectual property rights & patent awareness	Kumaun University, TIFAC and UCOST	Department of Biotechnology	2011
Variation in soil characteristics. in Tarai of Uttarakhand.	Geology and Geo-resources of Himalaya and Craton regions of India"	Department of Geology. K.U Nainital	2012
13 th Silviculture Conference	ICERE, Dehradun	F.R.1. Dehradun	2014
Carbon sequestration in poplar central Himalaya	Tree outside forests and wood-based enterprise	F.R.1. Dehradun	2014
Tree outside forest climate change	Climate change education	Uttarakhand center of climate change, Kumaun university, SSJ Campus Almora	2015
Community forest a way to sustainable forest management	Sustainable development in Indian Himalayan region	Department of commerce Kumaun University, Nainital	2016

**Signature of the faculty member**