Kumaun University, Nainital
Curriculum Vitae

Name : Pradeep Goswami

Designation : Professor

Department : Department of Geology

Contact Information

- Email Address : drpgoswami@yahoo.com
- Mobile No : 9411196852

LinkedIn Profile (Optional) :

ORCD ID : https://orcid.org/0000-0002-5607-4813

Scopus ID :

Vidwan ID :

Educational Qualification

Degree	***University***	***Subjects***	***Year***
M.Sc.	Kumaun University, Nainital	Geology	1994
Ph.D	Kumaun University, Nainital	Geology	1999

Work Experience

Position	***Department***	***University/Organization***	***Year***
Professor	Department of Geology	Kumaun University, Nainital	2010-
Associate Professor	Department of Geology	Kumaun University, Nainital	2007-2010
Reader	Department of Geology	Kumaun University, Nainital	2004-2007
Scientist 'SC'	Geoscience Division	RSAC-UP, Lucknow	1996-2004
Research Fellow	Department of Geology	Kumaun University, Nainital	1994-1996

Administrative Responsibilities

Position	***Nature of responsibility***	***University/Organization***	***Year***
Head of the Department of Geology	Updating curriculum, teaching and administrative duties, implementing academic policies, coordinating with teachers and students, and resource mobilization etc.	Kumaun University, Nainital	2021-
Nodal officer, OBC	Take cognizance of the issues that can lead to caste based discrimination of OBC faculty and supporting staff of the university	Kumaun University, Nainital	2020-
Additional Director, IQAC	Framing and execution of policies for improvement in	Kumaun University, Nainital	2021-2023

	teaching, research, administration etc. Maintaining and updating Quality Matrices related records of the university		
Member Board of Studies (BoS) in Geoinformatics	Revise/update the syllabi contents	Uttarakhand Open University	2021-2023
Director, Development and Planning	Framing, fund mobilizing, executing and monitoring infrastructure development related policies	Kumaun University, Nainital	2017-2019
Co-Coordinator, UGC SAP	Coordinate the advance research activities funded under the programme	Kumaun University, Nainital	2012-2017
Assistant Dean Students' Welfare	Looking after the matters pertaining to welfare schemes for the students	Kumaun University, Nainital	2010-2012
Convener, B.Sc. I (Biology Group) Admission Committees	Coordinate the counselling and admission process	Kumaun University, Nainital	2009-2011
Member, Central Committee Main Exams	Ensure fair and timely evaluation of the answer books	Kumaun University, Nainital	2010
Member, Anti Ragging Committee	Ensuring a ragging free campus	Kumaun University, Nainital	2009-2010
Member, B.Sc.I admission committees	counselling and admission process	Kumaun University, Nainital	2005-2008

Research Interests

1. Sedimentology of modern and ancient clastic successions, mainly of the NW Himalaya, its foreland basin, and Indo-Myanmar Ranges
2. Active tectonics of the Himalaya, its foreland basin, and Indo-Myanmar Ranges
3. Remote Sensing based geodetic investigations of the active structures of NW Himalaya, its foreland basin, and Indo-Myanmar Ranges

Publications

(a) Research Papers (selected)

Authors name	***Title of the paper***	***Journal, vol, page no***	***Year***
Jyoti Tiwari, S.S Bhakuni, **Pradeep K. Goswami** and Anil Tiwari	Seismo-tectonic Model of the Kullu-Larji-Rampur Window, NW Himalaya: A Study Based on Structural Analysis, Seismicity, and Localized Stress	*Himalayan Geology* (in press)	2024
Kshetrimayum, A.S. and **Goswami, P.K**	Active tectonics of the Thoubal-Chandel Thrust, Manipur Hills, Indo-Myanmar range, northeast India: Insights into	*Geological Journal*, 58: 662–682	2023

	deformation pattern of adjacent thrust sheets in a growing orogen		
Goswami, P.K. and Singh, K.	Autogenic and allogenic controls on the temporal palaeogeographic evolution of the Himalayan foreland basin: Insights from facies analysis of the lower Siwalik succession, Kumaun Himalaya, India.	*Island Arc* 31:e12461	2022
Tewari, J., **Goswami, P.K.**, and Bhakuni, S.S.	Pattern of active crustal deformation in a part of a Lesser Himalayan tectonic window, Himachal Pradesh, India.	*Quaternary International* 592, 111–120.	2021
Goswami, P.K. and Kshetrimayum, A.S.	Pattern of active tectonic deformation across the Churachandpur-Mao thrust zone of Manipur Hills, Indo-Myanmar range, NE India: Inferences from geomorphic features and indices.	*Quaternary International*, 523, 46 –53.	2020
Goswami, P.K.	Provenance of Middle Siwalik sandstones of the Himalayan foreland basin (south central Kumaun, India): Implications for tectonics and paleoclimate of the source area.	*Geological Journal*, 55, 73 –749	2020
Goswami, P.K. and Pant, S.	Active bidirectional tectonic-tilting in a part of the Almora Klippe, Kumaun Lesser Himalaya, India: insights from statistical analyses of geomorphic indices.	*Quaternary International*, 523, 46–3.	2019
Yhokha, A., **Goswami, P.K.,** Chang, C.P., Yen, J.Y., Ching, K.E., Manini Aruche, K.	Application of Persistent Scatterer Interferometry (PSI) in monitoring slope movements in Nainital, Uttarakhand Lesser Himalaya, India.	*Journal of Earth System Science,* 127, 6	2018
Goswami, P.K. and Kshetrimayum, A.S.	Depositional processes and sedimentation pattern in an intermontane basin: Insights from the Imphal Basin, Indo□Myanmar Range, NE India.	*Geological Journal*, 53, 3051–3063.	2018
Goswami, P.K. and Deopa, T.	setting of the provenance of Lower Siwalik sandstones of the Himalayan foreland basin, southeastern Kumaun Himalaya, India	*Island Arc*, e12242.	2018
Goswami, P.K.	Controls of basin margin tectonics on the morphology of alluvial fans in the western Ganga foreland basin's piedmont zone, India.	*Geological Journal,* 53, 1840-1853.	2018
Goswami, P.K. and Deopa, T.	Lithofacies characters and depositional processes of a Middle Miocene Lower Siwalik fluvial system of the Himalayan foreland basin, India.	*Journal of Asian Earth Science,* 162, 41-53	2017 (online)/2018 (print)
Kotlia, B.S., **Goswami, P.K.**, Joshi,	Sedimentary environment and geomorphic development of the Uppermost Siwalik molasse in Kumaun	*Geological Journal*, 53, 159–177.	2017 (online)/2018

L.M., Singh, A.K., Sharma, A.K.	Himalayan foreland basin, North India.		(print)
Goswami, P.K.	Depositional processes in the distal part of a large alluvial fan's feeder channel in Himalayan foothills, India.	*Geological Journal,* 52, 733–744.	2016 (online)/2017 (print)
Yhokha, A., Chang, C.P., **Goswami, P.K**., Yen, J.Y., Lee, S.I.	Surface deformation in the Himalaya and adjoining piedmont zone of the Ganga Plain, Uttarakhand, India: Determined by different radar Interferometric techniques.	*Journal of Asian Earth Science*, 106, 119–129.	2015
Goswami, P.K. and Deopa, T.	Channel morphology, hydrology and geomorphic positioning of a Middle Miocene river system of the Siwalik foreland basin, India.	*Geological Magazine*, 152, 12–27.	2015
Goswami, P.K. and Mishra, J.K.	Tectonic and climatic controls on the Quaternary landscape evolution of the Piedmont Zone of the Ganga Plain, India.	*Zeitschrift für Geomorphologie* 58, 367-384.	2014
Goswami, P.K. and Mishra, J.K.	Morphotectonic evolution of the Piedmont Zone of the west Ganga Plain, India.	*Zeitschrift für Geomorphologie* 58, 117-131.	2014
Goswami, P.K. and Mishra, J.K.	Climatic and tectonic controls on the sedimentary processes of an alluvial fan of the western Ganga Plain, India.	*Geological Magazine*, 150, 240-253.	2013
Goswami, P.K. and Deopa, T.	Quaternary block-tilting in southern Himalayan ranges of eastern Uttarakhand, India.	*Zeitschrift für Geomorphologie*, 57, 45-60.	2012
Goswami P.K.	Geomorphic evidences of active faulting in the northwestern Ganga Plain, India: Implications for the impact of basement structures.	*Geosciences Journal*, 16, 289-299.	2012
Shah, P.N., Uniyal, A., **Goswami, P.K**., Kunwar, V., Jadaun, S.P.S. and Ramchandra	Remote sensing and GIS based approach for generation of LHZ and LHM maps in parts of Nainital and Almora districts of Kumaun Himalaya.	*Indian Landslides,* 5, 23-34	2012
Goswami, P.K. and Yokha, A.	of the Piedmont Zone of the Ganga Plain, India: a study based on remote sensing, GIS and field investigation	*International Journal of Remote Sensing,* 31, 5349-5364	2010
Uniyal A. Shah, P.N., Agarwal, R., Kumar, V., Jadaun, S.P.S., Shukla, S. and **Goswami, P. K.**	Landslide hazard zonation and management studies in Mussoorie, Thatyur and Dhanaulti areas using high resolution point geocoded PAN data and GIS techniques.	*Indian Landslides*, 3, 7-18.	2010

Goswami, P.K., Pant, C.C. and Pandey, S.	Tectonic controls on the geomorphic evolution of alluvial fans in the Piedmont Zone of the Ganga Plain, Uttarakhand, India.	*Journal of Earth System Science,* 118, 245-259.	2009
Goswami, P.K. and Pant, C.C.	Tectonic evolution of Duns in Kumaun Sub-Himalaya, India: A remote sensing and GIS based study.	*International Journal of Remote Sensing*, 29, 4721-4734.	2008
Goswami, P.K. and Pant, C.C.	Geomorphology and Tectonics of Kota–Pawalgarh Duns, Central Kumaun Sub-Himalaya.	*Current Science,* 92, 685-690.	2007
Pant C.C. and **Goswami, P.K.**	Tide-storm dominated shelf sequence of the Neoproterozoic Blaini Formation and its implications on the evolution of Krol-belt, Kumaun Lesser Himalaya.	*Journal of Nepal Geological Society*, 28, 19-39	2003
Pant C.C. and **Goswami, P.K.**	Lithofacies analysis of the Lariakantha Quartzite and its implication on the genesis of the Blaini Formation, Kumaun Lesser Himalaya.	*Journal of the Palaeontological Society of India*, 43:23-34.	1998
Pant C.C. and **Goswami, P.K.**	Detrital modes and provenance interpretation of the Lariakantha Member (Blaini Formation), Nainital Hills, Kumaun Lesser Himalaya.	*Bulletin of the Indian Geologists' Association*, 29(1-2): 37-46.	1996

(b) Book chapters

Authors name	***Title of the book***	***Publisher***	***ISBN***	***Year***
Pant, C.C. and **Goswami, P.K.**	*Aspects of Geology and Environment of the Himalaya*	*Gyanodaya Prakashan, Nainital, India*:	8185097577	2002

(c) Conference Publications/Proceedings

Authors name	***Title of the paper***	***Conference name***	***Year***
Goswami, P.K.	Using DTMs to delineate active faults of the proximal part of the Ganga plain, Uttarakhand, India.	39th *Asian Conference on Remote Sensing*, *Kuala Lumpur*	2018
Kshetrimayum, A.S. and **Goswami, P.K.**	Geomorphic characterization of the Imphal intermontane valley, NE India: an application of Remote Sensing and GIS technique	39th *Asian Conference on Remote Sensing*, *Kuala Lumpur*	2018
Goswami, P.K.	Geomorphology and tectonics of the piedmont zone of west Ganga Plain, India: insights from integrated remote sensing, GIS and field based investigations.	34th *Asian Conference on Remote Sensing*, *Bali.*	2013
Goswami, P.K	The Disaster Response System for Uttaranchal: An Overview	*Seminar on Natural Disasters: Threat Perception, Myth and Reality, Deptt. Geol., D.B.S. (P.G.) College, Dehradun*	2002

Shah, P.N., Uniyal, A. & **Goswami, P.K.**	Monitoring the Yamuna river configuration between Vrindavan and Mathura for selection of feasible sites for plantation using multidate satellite data.	*ISRS National Symposium, IIT, Kanpur*	2000

Projects

Title of the project	***Funding agency***	***Amount (Rs)***	***Year***
Pattern of active tectonic deformation of the Shillong Plateau, NE India	Kumaun University	2,00,000	2024
Insight into the enclave and granite petrogenesis from textural, chemical, and isotopic investigation of K feldspar megacrysts in the Cambrian plutons of Meghalaya Plateau, NE India	SERB DST, New Delhi	59,00,000	2024
Monitoring surface deformation in Western Himalaya, Uttarakhand State of India using PSInSAR and SBAS techniques	European Space Agency	Satellite data support	2013 -2016
Monitoring the recent surface deformation in North India (Kumaun Himalaya & Ganga basin), using DInSAR and PSInSAR techniques.	DST, Govt. of India, and National Science Council, Govt of Taiwan.	25,00,000 (*on actual expenditure basis*)	2012 -2015
Monitoring the recent surface deformation in North India (Kumaun Himalaya & Ganga basin), using DInSAR and PSInSAR techniques.	European Space Agency	Satellite data support	2012 -2015
Sedimentatological and tectonic evolution, through time and space, of the Piedmont zone of Indo-Gangetic basin between Kosi and Nandhaur rivers, Uttaranchal.	Department of Science & Technology, Govt. of India.	13,56,000	2006-2009
Landslide hazard zonation in Malpa, Okhimath, Nainital and Mussoorie areas of Uttaranchal using remote sensing and GIS techniques	Uttaranchal Vikas Vibhag, Govt. of U.P.	50,00,000	1999-2004
Monitoring geoenvironmental parameters leading to landslides in Sikkim area	DTRL, Ministry of Defence, Govt. Of India.	9,58,000	2003- 2004
Temporal Monitoring of dynamics of Yamuna river stretch in the vicinity of the gas pipeline near village Sauri, Agra district, U.P.,	Gas Authority of India Ltd (GAIL)	1,48,000	2000- 2001

using remote sensing and GIS techniques			
Temporal Monitoring of dynamics of Yamuna river stretch between Vrindavan and Mathura for location of feasible site for plantation using remote sensing technique.	Department of Forest, Govt. of U.P.	33,000	04/1998 - 07/ 1998
Mapping of land use/land cover pattern on 1:25,000 scale in the vicinity of proposed road and rail alignment sites in parts of Dibrugarh, Dhemaji & Sibsagar districts of Assam using IRS 1C PAN data.	Rail India Technical and Economic Services (RITES), Ministry of Railways, Govt. Of India	350,000	1997- 1998

Teaching details

Name of the course/paper	Department	University	Year
M.Sc. Remote Sensing and GIS	Geology	Kumaun University	2004-
M.Sc. Tectonic Geomorphology	Geology	Kumaun University	2012-
M.Sc./B.Sc. Geological Field Training	Geology	Kumaun University	2004-
B.Sc. Photogeology	Geology	Kumaun University	2004-
B.Sc. Engineering Geology	Geology	Kumaun University	2004-2021
B.Sc. Physical Geology	Geology	Kumaun University	2006-2015
Ph.D. Research methodology	Faculty of Science	Kumaun University	2010-

Professional Memberships

Organization	Position	Year
Indian Society of Remote Sensing	Life member	
Palaeontological Society of India	Life Member	
Indian Society of Earthquake Science	Life Member	
Central Himalayan Environment Association	Life member	
American Geophysical Union	Member	2015-2018

Honours and Awards

Award	Awarding Organization	Year

Conference Presentations (selected)

Title of presentation	Conference name	Name of the institution	Year
Controls of disposition and activities of the Main Frontal thrust zone on geomorphic architecture and evolution of frontal mountain-segments of the Kumaun Himalaya, India: Insights from remote sensing and GIS technologies coupled with field-based investigations	*44th Asian conference on Remote Sensing, Taipei, Taiwan*	Asian Association on Remote Sensing	2023
Growth Pattern of Fold-Thrust Belts in a Part of the Indo-Myanmar Range (IMR): Insights from Integrated RS-GIS, Geomorphic, and Field Investigations	*44th Asian conference on Remote Sensing, Taipei, Taiwan*	Asian Association on Remote Sensing	2023
Using DTMS to Delineate Active Faults of the Proximal Part of the Ganga Plain, Uttarakhand, India	*39th Asian conference on Remote Sensing, Kuala Lumpur, Malaysia*	Asian Association on Remote Sensing	2018
Geomorphic Characterization of the Imphal Intermontane Valley, NE India: an Application of Remote Sensing and GIS Technique	*39th Asian conference on Remote Sensing, Kuala Lumpur, Malaysia*	Asian Association on Remote Sensing	2018
Remote Sensing and GIS Based Geomorphic Investigations Lend Insights Into Active Tilt-Block Tectonics of the Central Frontal Himalaya, India	*37th Asian conference on Remote Sensing, Colombo, Sri Lanka*	Asian Association on Remote Sensing	2016
Active Crustal Deformation in Imphal Intermontane Valley, Ne India: Insights from Integrated Remote Sensing, GIS and Investigations	*37th Asian conference on Remote Sensing, Colombo, Sri Lanka*	Asian Association on Remote Sensing	2016
Geomorphic evidences of lateral propagation and differential uplift of the two segments of frontal Siwalik range, central Himalaya, India	*American Geophysical Union, Fall Meeting 2015, San Francisco*	*American Geophysical Union*	2015
Geomorphology and tectonics of the piedmont zone of west Ganga Plain, India: insights from integrated remote sensing, GIS and field based investigations	*34th Asian Conference on Remote Sensing*, *Bali*	Asian Association on Remote Sensing	2013
Remote sensing and Digital Terrain Model (DTM) based investigations reveal recent crustal adjustments in southern Kumaun Himalaya, India	*34th Asian Conference on Remote Sensing*, *Bali*	Asian Association on Remote Sensing	2013

Permanent Scatterer Interferometry (PSI) reveals tectonically induced active surface deformations in the Himalaya and adjoining Ganga Plain, Uttarakhand, India.	*International conference on Synthetic Aperture Radar: A global solution to geological hazards*	The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy	2013
Geodynamic Evolution of the Himalaya	*2013 CSRSR Seminar*	Center for Space and remote Sensing Research, National Central University, Jhongli, Taiwan	2013
Satellite remote sensing, digital terrain modeling and fieldwork based morphotectonic investigations in the northwestern Ganga Plain, India	*33rd Asian Conference on Remote Sensing*, *Pattaya, Thailand*	Asian Association on Remote Sensing	2012
A revelation of the lateral propagation and tilting of a Siwalik tectonic block, Central Himalaya, India	*33rd Asian Conference on Remote Sensing*, *Pattaya, Thailand*	Asian Association on Remote Sensing	2012
Accomodation of the India-Eurasia collision related stresses in the proximal part of the Ganga Foreland Basin, India: Insights from remote sensing and DTM based investigations	*32nd Asian Conference on Remote Sensing*, *Taipei*	Asian Association on Remote Sensing	2011

(Pradeep Goswami)