

CURRICULUM VITAE

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Specialization: Hydrogeology, Remote Sensing and GIS, Mining, Environment
Compliances, Disaster Management

PROFESSIONAL QUALIFICATION

- ❖ **CSIR-UGC (NET)** – Earth, Atmosphere, Ocean and Planetary Sciences
- ❖ **Ph.D** (Geology), **Panjab University**, Chandigarh.
- ❖ **Post-graduate Diploma in Disaster Management**, **IGNOU**, Delhi.
- ❖ **Post-Graduate Diploma in Remote Sensing & GIS with specialization in Geosciences**, **Indian Institute of Remote Sensing, Indian Space Research Organization**, Dehradun, Uttarakhand.
- ❖ **M.Sc. (Hons.) (Geology)**, **Panjab University**, Chandigarh, India.
- ❖ **B.Sc.(Hons.) (Geology)**, **Panjab University**, Chandigarh.

CERTIFICATIONS/LICENCES

- ✓ **QCI-NABET**, approved **FAE** in **Geology (GEO)**, **Hydrogeology (HG)** and **Land Use (LU)**.
- ✓ **Certificate of Recognition as Qualified Person for preparation of mining plans** by **Department of Water Resources, Govt. of Punjab, Chandigarh (Mines and Geology)**, India.
- ✓ **Certificate of Recognition as Qualified Person for preparation of mining plans** by **Directorate of Mines and Geology, Govt. of Haryana, India**.

EXPERIENCE

More than 20 years of experience in research, academics, industry and corporate sector.

PAPER PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES

- ❖ Presented paper in International Conference on “ Land, Soil & Territory in the South’s of the World with Schools of the World (20th -21st February, 2025. ABMSP’s Anantrao Pawar College of Engineering & Research, Pune.
- ❖ Presented paper in Three-day 2nd International Conference on River Corridor Research and Management (RCRM) w.e.f. 30th May to 1st June 2022 organized by

Organized by Indian Institute of Technology Guwahati in association with Indian Institute of Technology, Jammu.

- ❖ Presented paper in Two Day National **Conference** on “**Recent trends** in Geospatial Technology in land resources mapping: issues & challenges organized by Central university of Jharkhand on 19th & 20 on March **2021**.
- ❖ Presented paper in Three-day 1st International Conference on River Corridor Research and Management (RCRM) w.e.f. 25th to 27th February 2021 organized by Indian Institute of Technology, Jammu in association with Indian Institute of Technology, Guwahati.
- ❖ Presented paper in National Conference on Earthquake: Investigation & Instrumentation 23rd - 24th Sept. 2019 organized by CSIR-Central Scientific Instruments Organization, Chandigarh.
- ❖ Presented poster on Socio-Economic Impact of Landslides: A Case Study along NH-22, District Solan, Himachal Pradesh and bagged 5th prize in National Conference on Earthquake: Investigation & Instrumentation 23rd - 24th Sept. 2019 organized by CSIR-Central Scientific Instruments Organization, Chandigarh.
- ❖ Presented poster on Geological and Geotechnical Investigation of Sirobagarh Landslide Zone NH-58, Uttarakhand, India in National Conference on Earthquake: Investigation & Instrumentation 23rd - 24th Sept. 2019 organized by CSIR-Central Scientific Instruments Organization, Chandigarh.
- ❖ Attended **91st Session of Indian Science Congress Association** as delegate in the **Earth System Sciences** Section, from. 3rd – 7th Jan, 2004 held at Punjab University, Chandigarh. Bagged second prize in essay writing competition in Earth System Sciences.
- ❖ Presented paper in First Indian National Groundwater Conference (INGWC-2016) during October 5-7, 2016.

RESEARCH PUBLICATIONS (RESEARCH ARTICLES AND BOOK CHAPTERS)

Research Articles:

- ❖ Sharma, M., Upadhyay, R. K., Tripathi, G., Kishore, N., Shakya, A., Meraj, G., Kanga, S., Singh, S. K., Kumar, P., Johnson, B. A., & Thakur, S. N. (2023). Assessing Landslide Susceptibility along India’s National Highway 58: A Comprehensive Approach Integrating Remote Sensing, GIS, and Logistic Regression Analysis. *Conservation*, 3(3), 444-459.
- ❖ Sharma, M., Sharma, S., Tripathi, G., Singh, S. K., Kanga, S., & **Upadhyay, R. K.** Geotechnical Stability Assessment of Road-cut Slopes: A Case Study of Srinagar, Garhwal Himalaya, India. *Biological Forum – An International Journal*, pp.
- ❖ **Upadhyay, R.K.**; Tripathi, G.; Đurin, B.; Šamanovi’c, S.; Cetl, V.; Kishore, N.; Sharma, M.; Singh, S.K.; Kanga, S.; Wasim, M.; et al. (2023). **Groundwater Potential Zone Mapping in the Ghaggar River Basin, North-West India, Using Integrated Remote Sensing and GIS Techniques.** *Water*. 15, 961..
- ❖ **Upadhyay, R.K.**, Tripathi, G., Kishore, N., Sharma, M. (2021). **GI-Science Based Morphometric Analysis for Geo-Hydrological Studies of Ghaggar River Basin, North-West India.** *Turkish Online Journal of Qualitative Inquiry*. Vol. 12 No. 9, 2487–2499.

- ❖ **Upadhyay R.K., Sharma, N.S. & Sharma, M., (2021). Delineation and Mapping of Palaeochannels Using Remote Sensing, Geophysical and Sedimentological Techniques: A Comprehensive Approach.** Water Science.
- ❖ **Pandey S.K. & Upadhyay R.K., Gupta V., Worku K. & Lamba D. (2019).** Phytoremediation Potential of Macrophytes of Urban Waterbodies in Central India. *Journal of Health and Pollution*, 9 (24): 191206.
- ❖ **Pandey, S.K, Upadhyay, R.K., Worku, K. (2019). Secondary Decomposers in Waste Management and Land Productivity: Analysis of Ecosystem-Health Issues.** *Indian Journal of Fertilisers*, 15 (10): 1172-1179.
- ❖ **Pandey, S.K., Upadhyay, R.K., Pandey, K. (2018). Impact of Anthropogenic Activities on Land Use Pattern in Pathri Reserve Forest, Haridwar as Monitored by Remote Sensing Sensing and GIS Techniques.** *Indian Journal of Fertilisers*, Vol. 14 (8), Pp.66-71.
- ❖ **Upadhyay, R.K, Ketholia, Y., Pandey P. (2018). Alarming Rate of Groundwater Depletion in Punjab and Dire Need to Check Overdrafting in The Region.** *International Journal of Current Advanced Research*. Vol. 7, Issue 6(H); Pp.13595-13603.

Book Chapters:

- ❖ **Upadhyay R.K., Kishore N., Sharma M., Worku K., Dwivedi CS., Tripathi G.,(2024).** Rejuvenation of Ponds through Phytoremediation: A Sustainable Approach for Water Quality Enhancement in Rathod S. V., *Eco-Restoration of Polluted Environment- A Biological Perspective*, CRC Press. Pp. 198-226.
- ❖ **Upadhyay R.K., Kishore N., Sharma M., Sundriyal S (2024).** Environmental Sustainability and its Impact on Public Health In Tripathi G., Shakya A., Kanga S., Guite LTS, Singh SK. *Sustainability and Health Informatics: A Systems Approach to Address the Climate Action Induced Global Challenge*, Springer Nature Singapore, pp. 47-72.
- ❖ **Upadhyay R.K., Arora P., Sundriyal S. (2024).** Introduction to Health Informatics (HI): Enhancing Healthcare Through Information Technology In Tripathi G., Shakya A., Kanga S., Guite LTS, Singh SK. *Sustainability and Health Informatics- A Systems Approach to Address the Climate action Induced Global Challenge*. Springer Nature, pp 121-132.
- ❖ **Tripathi G., Upadhyay R.K., Dwivedi C.S., Shakya A. (2024). Smart Village Planning Towards Sustainability using Geospatial Techniques- A Case Study of Mazaffarnagar District, India** In Ghosh S., Kumari M., Mishra V.N. *Geospatial Technology to Support Communities and Policies- Pathways to Resiliency*. Springer Nature. Pp 241-261.
- ❖ **Tripathi, G., Shakya, A., Upadhyay, R.K., Singh, S.K., Kanga, S., Pandey, S.K. (2023). Landslide Susceptibility Mapping of Tehri Reservoir Region Using Geospatial Approach.** In: Sharma, S., Kuniyal, J.C., Chand, P., Singh, P. (eds) *Climate Change Adaptation, Risk Management and Sustainable Practices in the Himalaya*. Springer, Cham.
- ❖ **Upadhyay, R.K., Kishore, N., Sharma, M. (2022). A Geospatial Approach for Mapping and Delineation of Palaeochannels of Ghaggar Basin, North-West India, for Groundwater Development to Meet Sustainable Development Goals.** In: Chembolu, V., Dutta, S. (eds) *Recent Trends in River Corridor Management*. Lecture Notes in Civil Engineering, vol 229. **Springer**, Singapore.
- ❖ **Pandey S.K, Upadhyay R.K, Pathak C. & Dwivedi CS, (2021). Sustainable Land Resource Management Approach and Technological Interventions – Role of GI Science.** In *Geographic Information Science for Land Resource Management*. Scrivener Publishing Wiley. Pp. 19-32.

- ❖ **Upadhyay R.K**, Pandey S.K, Tripathi, G. (2020) Role of Geo-Informatics in Natural Resource Management During Disasters: A Case Study of Gujarat Floods, 2017. Book Chapter in Sustainable Development Practices Using Geoinformatics. Wiley Online Library, pp. 253-282.

PROFESSIONAL TRAININGS

- Attended more than 250 professional trainings including trainings, workshops, FDPs, etc.