Faculty Profile

Title	DR	FIRST NAME	**SANDEEP KUMAR**	LAST NAME	**GAUTAM**	Photograph
DESIGNATION		**Assistant Professor**				
Address		Satyawati College (Eve.) University of Delhi, Ashok Vihar Phase-III, Delhi-52, India				
Phone No Office		**01127751317**				
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Web-Page						

Educational Qualifications

Degree	Institution	Year
Ph. D.	**Jawaharlal Nehru University, New Delhi**	**2015**
M.PHIL	**Jawaharlal Nehru University, New Delhi**	**2010**
M.Sc.	**Jawaharlal Nehru University, New Delhi**	**2007**
B.Sc.	**University of Lucknow, Lucknow**	**2004**

Career Profile

- Current Position: ***Assistant Professor*** at the Department of Environmental Studies, Satyawati College (Eve.), University of Delhi, Delhi, India.
- Teaching: ~ 1 year (November 2022-September 2023) as an ***Assistant Professor*** (Guest) at the Kirori Mal College, University of Delhi, Delhi, India.
- ~ 1 year (February 2021- April 2022) as an ***Assistant Professor*** (Guest) at the Centre of Environmental Studies, Institute of Inter-Disciplinary Studies, University of Allahabad, Prayagraj, Uttar Pradesh, India.
- ~ 1 year (December 2020 - July 2021) as an ***Assistant Professor*** (Guest) at Sri Aurobindo College Teaching Centre of NCWEB, University of Delhi, Delhi, India.
- Research: 2 years (September 2017 - September 2019) ***National Post-Doctoral Fellow*** (NPDF, SERB, DST), Department of Geology, University of Lucknow, Lucknow, U.P. India.
- Teaching: ~ 2 years (August 2015- September 2017) as an ***Assistant Professor*** (Guest) at the Dept. of Environmental Science, School of Vocational Studies and Applied Sciences, Gautam Buddha University, Greater Noida, U.P. India.

Administrative Assignments

- Served as ***Additional Deputy Superintendent***, Examination Committee, during December 2025 to January 2026.
- Served as ***Convener*** of the SC/ST/OBC/EWS/PwBD Admission Enabling Committee, responsible for facilitating and supporting the admission process for Admissions 2025–26.
- Serving as ***Convener*** of Aranyani Environmental Society, Department of Environmental Studies, for the Academic Year 2025–26.
- Serving as ***Coordinator*** for Skill Enhancement Courses (SEC) at Satyawati College Evening, University of Delhi, from 21 February 2025 onwards.
- Served as ***Nodal Officer*** for the 30 Days Environmental Challenge, organized at Satyawati College Evening, University of Delhi, from 08 August 2024 to 06 September 2024.
- Served as ***Member***, UG Admissions 2024 – Grievance Redressal Committee at Satyawati College Evening, University of Delhi for the Admissions Session 2024–25.
- Served as ***Member***, College Research Committee at Satyawati College Evening, University of Delhi during the Academic Session 2024–26.
- Served as ***Member***, Attendance Record Committee at Satyawati College Evening, University of Delhi during the Academic Session 2024–26.

Areas of Interest / Specialization

- Hydrogeology and Low-Temperature Geochemistry

Subjects Taught

- Ability Enhancement Course: Environmental Science: Theory in to Practice I & II at under graduate level.

Research Guidance

Yet not

Publications Profile

- Singh, B.P., Khichi, P., Sai, P., ***Gautam, S.K***., Chahal, S., & Gupta, J. (2025). Spatial and Temporal Variations Ganga River Water Quality: Insights from GIS Analysis (2017–2021). Water Air & Soil Pollution 236, 1017. https://doi.org/10.1007/s11270-025-08677-6 ***(impact factor: 3.0***).
- Singh, B.P., Mehra, K., Chowdhary, K., Khanna, C., ***Gautam, S***., Chahal, S., Masih, J., and Gupta, J. (2025). Effect of meteorological parameters and air pollutants association with health risk assessment during the pandemic in Delhi, India. Discover Public Health 22:402. https://doi.org/10.1186/s12982-025-00788-z
- Chahal, S., Paulraj, R., Singh, B.P., ***Gautam, S.K.*** (2025). Evaluation of boron toxicity in soil and influencing factors: A case study of sodic soils of Panipat, India. Environ Monit Assess 197, 8. https://doi.org/10.1007/s10661-024-13480-7 (***impact factor: 3.0***).
- Chahal, S., Gautam, S.K., Paulraj, R. (2023). Hydrogeochemical characterization and assessment of water suitability for irrigation in salt-affected area of Israna block, Haryana, India. Water Conservation Science and Engineering. https://doi.org/10.1007/s41101-023-00194-z. (***impact factor: 2.0***).
- Ravi N.K, Jha P.K, Varma K., Tripathi P., ***Gautam S.K.***, Ram K., Kumar M., Tripathi V. (2023). Application of water quality index (WQI) and statistical techniques to assess water quality for drinking, irrigation, and industrial purposes of the Ghaghara River, India. Total Environment Research Themes. doi.org/10.1016/j.totert.2023.100049
- Ravi, N.K., ***Gautam, S.K.***, Tiwari, J., Jha, P.K. (2022). Assessment of seasonal and spatial variation of the organic carbon and nutrients in the Ghaghara River sediment. Asian Journal of Water, Environment and Pollution. 19(3): 59-67. doi 10.3233/ajw220040. (***impact factor: 0.7***).
- Kumar, M., ***Gautam, S.K***., Jha, P.K., Atri, R.K., Kumar, S., Tiwari, J. (2022). Water Quality Assessment Using Multivariate Statistical Techniques: A Case Study of Devika Stream of Udhampur District in Lower Shivalik Region. Asian Journal of Water, Environment and Pollution. 19(3):79-87. doi.10.3233/ajw220043. (***impact factor: 0.7***).
- Karmakar, B., Singh, M.K., Choudhary, B.K., Singh, S.K., Egbueri, J.C., ***Gautam, S.K***., Rawat, K.S. (2021) Investigation of the hydrogeochemistry, groundwater quality and associated health risks in industrialized regions of Tripura, northeast India. Environmental Forensics. https://doi.org/10.1080/15275922.2021.2006363 (***impact factor: 1.880***).
- Islam, Z., Ranganathan, M., Bagyaraj, M., Singh, S.K., ***Gautam, S.K.*** (2022). Multi-decadal groundwater variability analysis using geostatistical method for groundwater sustainability. Environment, Development and Sustainability. 24:3146–3164. https://doi.org/10.1007/s10668-021-01563-1 (***impact factor: 4.2***).
- ***Gautam, S.K***., Singh, S.K., and Rawat, K.S. (2021) Intrinsic vulnerability evaluation of groundwater nitrate pollution along a course of the Subarnarekha River in Jharkhand, India. Water Conservation Science and Engineering. 6:55–66. https://doi.org/10.1007/s41101-021-00102-3. (***impact factor: 2.0***).

- Nemčić-Jurec, J., Singh, S.K., Jazbec, A., ***Gautam S.K.***, Kovač, I. (2019). Hydrochemical investigations of groundwater quality for drinking and irrigational purposes: two case studies of Koprivnica-Križevci County (Croatia) and district Allahabad (India). Sustainable Water Resources Management. 5 (2):467–490. DOI 10.1007/s40899-017-0200-x. (***impact factor: 2.1***).

- Rawat, K.S., Singh, S.K., ***Gautam, S.K.*** (2018) Assessment of groundwater quality for irrigation use: a peninsular case study Applied Water Science. 8:233. https://doi.org/10.1007/s13201-018-0866-8. (***impact factor: 5.7***).

- Gautam, S.K., Evangelos T., Singh S.K., Tripathi J.K., Singh, A.K. (2018). Environmental monitoring of water resources with the use of PoS index: a case study from Subarnarekha River basin, India. Environmental Earth Sciences.77-70. DOI.org/10.1007/s12665-018-7245-5 (***impact factor: 2.8***).

- ***Gautam, S.K.***, Evangelos T., Singh S.K., Tripathi J.K., Singh, A.K. (2018). Environmental monitoring of water resources with the use of PoS index: a case study from Subarnarekha River basin, India. Environmental Earth Sciences.77-70. DOI.org/10.1007/s12665-018-7245-5 (***impact factor: 2.8***).

- Singh, S.K., Singh, P., ***Gautam S.K.*** (2016). Appraisal of Urban Lake Water Quality through Numerical Index, Multivariate Statistics and Earth Observation Datasets. International Journal of Environmental Science and Technology. 13(2):445-456. DOI10.1007/s13762-015-0850-x (***impact factor: 3.4***).

- Maharana C., ***Gautam S.K.***, Singh, A.K., Tripathi, J.K. (2015). Major ion chemistry of the Son River, India: weathering processes, dissolved fluxes and water quality assessment. Journal of Earth System Science. 124(6):1293–1309. (***impact factor: 1.9***).

- ***Gautam, S.K.***, Maharana, C., Sharma, D., Singh, A.K., Tripathi, J.K., Singh, S.K. (2015). Evaluation of groundwater quality in the Chotanagpur Plateau region of the Subarnarekha River Basin, Jharkhand State, India Sustainability of Water Quality and Ecology. 6:57–74. DOI:10.1016/j.swaqe.2015.06.001

- Singh, S.K., Srivastava, P.K., Singh, D., Han, D., ***Gautam, S.K.***, Pandey A.C. (2015). Modeling groundwater quality over a humid subtropical region using numerical indices, earth observation datasets, and X-ray diffraction technique: a case study of Allahabad district, India. Environmental Geochemistry and Health. 37:157–180. DOI10.1007/s10653-014-9638-z ***(impact factor: 3.8***).

- Singh S.K., Srivastava P.K., Pandey A.C., ***Gautam S.K.*** (2013). Integrated Assessment of Groundwater Influenced by a Confluence River System: Concurrence with Remote Sensing and Geochemical Modelling. Water Resources Management. 27:4291–4313. DOI 10.1007/s11269-013-0408-y (***impact factor: 4.7***).

- ***Gautam, S.K.***, Sharma, D., Tripathi, J.K., Ahirwar, S., Singh, S.K. (2013). A study of the effectiveness of sewage treatment plants in Delhi region. Applied Water Science. 3: 57–65. DOI 10.1007/s13201-012-0059-9 (***impact factor: 5.7***).

- ***Gautam, S.K.***, Singh, A.K., Tripathi, J.K., Singh, S.K., Srivastava, P.K., Narsimlu, B., Singh, P. (2016). Appraisal of surface and groundwater of the Subarnarekha River Basin, Jharkhand, India: using Remote Sensing, Irrigation Indices, and Statistical Technique. In Geospatial Technology for Water Resource Development. CRC Press, Boca Raton, FL

- ***Gautam, S.K.***, Tripathi, J.K., Singh, S.K. (2020). Assessing the suitability of Ghaghra River water for irrigation purpose in India. In Agricultural Water Management - Theories and Practices. Elsevier Science Publishing Co Inc, Academic Press, USA.

Conference Organization/ Presentations (in the last three years)

- As ***Convener***, a seminar on *"Air Pollution Dynamics Over the Delhi Region"* was organized by ARANYANI – The Environmental Society, Satyawati College (Evening), University of Delhi, on 11 November 2025.
- A Seminar & Workshop on "My Planet, My Pride" was organized by Aranyani – The Environmental Society at Satyawati College (Evening), University of Delhi, on 17 February 2025 to promote environmental awareness and sustainability.

Research Projects (Major Grants/Research Collaboration)

- ***Co-Principal Investigator (Co-PI)*** for the research project titled **"*Assessment of Groundwater Quality and Groundwater Recharge Potential Zones under Changing Land Use and Land Cover Dynamics in a Sub-Humid Region of Rajasthan*"**, funded under the **Faculty Research Programme (FRP)** of the **Institution of Eminence (IoE), University of Delhi**, with a **minor research grant of ₹6.00 lakhs**.
- ***Principal Investigator (PI)*** for the research project titled **"*Geochemistry of Sediments and Soils from Different Land-Use Types in the Gomati River Basin, India*"**, funded by the **Science and Engineering Research Board (SERB)** *(Statutory Body established through an Act of Parliament: SERB Act, 2008)*, **Department of Science and Technology, Government of India**, during the period **26 September 2017 to 25 September 2019**, with a **total project cost of Rs. 19,71,333/-**. **Project File No.: PDF/2017/002820**.

Awards and Distinctions

- NET-JRF qualified in June 2007 conducted by the Council of Scientific & Industrial Research (CSIR), New Delhi.
- Short-listed for the most prestigious Indian science fellowship: SPM (Shyama Prasad Mukherjee) Fellowship screening test June 2007 conducted by CSIR, New Delhi.

Association With Professional Bodies

NIL

Other Activities

- Organized Earth Day 2007-08 (Annual Festival) in the School of Environmental Sciences, JNU.
- ***Trainer cum. Volunteer*** in INSPIRE (innovation in science program pursuit for inspired research) internship program sponsored by the Department of Science and Technology, Government of India held at the School of Environmental Sciences, JNU from 17th to 21st Feb 2014.