

CURRICULUM VITAE of Dilip Kumar



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 Department of Civil Engineering
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Educational Qualification: :

Sl/No	Examinations Passed	Year of Passing	University/ Institution
1	B.Tech. (Agricultural Engineering)	2008	Allahabad University
2	M.Tech (Water Resource Engineering & Management)	2010	IIT Guwahati
3	Ph. D (Civil Engineering)-	2020	IIT Guwahati

Experiences: :

Sl/No	Name of Position	Period	
		From	To
1	Assistant Professor, Department of Civil Engineering, G B Pant Engg College, Uttarakhand, INDIA	March 2011	Till date

Oversees Experiences:

Sl/No	Year	Name of the Organization	Position
1	July-Aug. 2019	Department of Civil and Resource Engineering, Curtin University, Malaysia	Visiting Research Scholar
2	Jan - Feb 2020	Department of Civil Engineering University Technology Brunei, Brunei	Visiting Research Scholar

Areas of Interest : Flood Modelling, Climate Change, Watershed Management, Disaster Management , Vulnerability Analysis.

Publication : Books:03, Book Chapters:04, Journals: 14; Conference Proceedings: 05

Student Supervision : M. Tech.: 2; B. Tech:24

Research and Consultancy Projects:

1. Principal Investigator, " Estimation of hydrological fluxes over upstream catchment of Himalayan river basin", Sponsored by ISRO-SAC (Sanctioned).
2. Co-Investigator, " Impact of Climate Change on the Integrated Flood Vulnerability Index of Hilly

- terrain ", Sponsored by AISTDF, Science & Engineering Research Board, DST, Govt. of India. (Ongoing).
3. Co-Investigator, " Estimation of groundwater fluctuation in different region of Bihar using GRACE data ", Sponsored by AICTE, Govt. of India. (Ongoing).

BOOK CHAPTERS

Kumar D., and Bhattacharjya R. K. (2020), "Forecasting Groundwater Fluctuation from GRACE Data Using GRNN", in *Soft Computing: Theories and Applications*, Springer, (*in press*).

Kumar D., Rajeev Gandhi, B.G. and Bhattacharjya R. K. (2020), "[Firefly Algorithm and Its Applications in Engineering Optimization](https://doi.org/10.1007/978-3-030-26458-1_6)", in *Nature-Inspired Methods for Metaheuristics Optimization*, Springer, (https://doi.org/10.1007/978-3-030-26458-1_6).

Kumar D., Rajeev Gandhi, B.G. and Bhattacharjya R. K. (2020), "[Introduction to Invasive Weed Optimization Method](https://doi.org/10.1007/978-3-030-26458-1_12)", in *Nature-Inspired Methods for Metaheuristics Optimization*, Springer, (https://doi.org/10.1007/978-3-030-26458-1_12).

REFERRED JOURNAL

Kumar, Dilip and Bhattacharjya, Rajib Kumar (2020), "Estimation of Integrated Flood Vulnerability Index for the hilly region of Uttarakhand, India", *Journal of Hazardous, Toxic, and Radioactive Waste, ASCE*, ([10.1061/\(ASCE\)HZ.2153-5515.0000540](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000540)).

Kumar, Dilip and Bhattacharjya, Rajib Kumar (2020), "[Study of Integrated Social Vulnerability Index SoVInt of Hilly Region of Uttarakhand, India](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000540)", *Journal of Environmental and Climate Technologies*, 24 (1), 105-122, (DOI:10.2478/rtuect-2020-0007)

Kumar, Dilip and Bhattacharjya, Rajib Kumar (2020), "[Evaluating two GIS-based distributed hydrological models in the Bhagirathi-Alkhnanda river catchment](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000540)", *Journal of Water and Land Development*, (In Press).

Navin P.K., Mathur Y.P., Kumar D. (2019) [Layout Optimization of Sewer Network Using Minimum Cumulative Flow in the Sewer Network](https://doi.org/10.1007/978-981-13-0215-2_23). In: Kalamdhad A., Singh J., Dhamodharan K. (eds) *Advances in Waste Management*. Springer, Singapore. (https://doi.org/10.1007/978-981-13-0215-2_23)

Dilip Kumar and Rajib Kumar Bhattacharjya (2011), "[Distributed rainfall runoff modeling](https://doi.org/10.1007/978-981-13-0215-2_23)", *International Journal of Earth Sciences and Engineering*, 4(6), 270-275.

Dilip Kumar and Bhism Singh Khati (2012), "[Black box model for flood forecasting](https://doi.org/10.1007/978-981-13-0215-2_23)", *Journal of Civil Engineering (IEB)*, 40 (1) (2012) 47-59.

Dilip Kumar, Neha lakhwan, Anita Rawat (2019), "[Study and Prediction of Landslide in Uttarkashi, Uttarakhand, India Using GIS and ANN](https://doi.org/10.1007/978-981-13-0215-2_23)", *American Journal of Neural Networks and Applications*. Vol. 3, No. 6, 2017, pp. 63-74. doi: 10.11648/j.ajnn.20170306.12

Kumar, Dilip., Himanshu S., Geographical Information Based Evaluation System for Drought, Dec(2017) *American Journal of Biological and Environ. Statistics* Volume 3, Issue 4, December 2017, Pages: 49-53.

Kumar, Dilip, Yadav, HL, Khati, B.S., Sept (2012) "Estimation of Infiltration Parameter for Tehri Garhwal Catchment" *International Journal of Engineering Research & Technology*, Volume 01 ISSUE 7. ISSN: 2278 - 0181

Kumar, Dilip., Khati,B.S., Saran.S. Oct (2012) "Effect of Embedment and Geogrid Reinforcement on Dynamic Elastic Properties of Silty Sand" "IJERT, Volume 01, ISSUE 08.

Kumar, Dilip., Himanshu S., Kumar.S. Oct (2012) "Effects of Lateral Spacing and Irrigation Scheduling on Drip Irrigated Cabbage in a semi-Arid Region of India""RJES" Volume 01(4), 1-4.

Workshops/ Conferences/ Symposium/ Seminar Attended

1. Four days training course on "Web Based Hydrological Tools" organized by National Institute of Hydrology (Ministry of Water Resources, Government of India) at Roorkee from March 12-15, 2013.
2. Two days off campus training programme on "Academic Management for Achieving Excellence in Engineering Education" organized by G. B. Pant Engineering College, Pauri-Garhwal from May 05-06, 2014.
3. 15 days STC on "Auto CAD" at Indor Danish Tool ROOM, Patna (MSME) from 01/04/13 to 15/04/13.
4. Four days STC on "Wed Based Hydrological Tools" at National Institute of Hydrology, Roorkee from 12/03/13 to 15/03/13.
5. One Week STC on "Green Technologies for Combating Climate Change and Sustainable Development" at G.B.P. University of Agriculture & Technology, Pantnagar from 21/08/12 to 25/08/12.
6. One-month Summer Training on "Agricultural Water Management" at ICAR Parisar, P.O.B.V. College, Patna from 01/06/2007 to 30/06/2007.
7. One Week STC on "CFD" @ NIT ALLAHABAD from July 02 to 06, 2013.
8. One Week STC on "Research Methodology" @ NIT Jaipur from 21st to 25th Oct, 2013.
9. One Week STC on "Energy efficiency and e waste management" @ GBPEC, Pauri from 26th to 30th August, 2013.

