

Curriculum Vitae

Dr. Vikram Kumar

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Date of Birth:- 26/06/1986



CURRENT POSITION

Scientist (Hydrology), Bihar Mausam Seva Kendra, Planning & Development Department, Patna – India. (Since, Apr-2021)

RESEARCH INTERESTS

Experimental Hydrology, Water Resources Management, Watershed Modeling, Agriculture Planning, River Engg., RS & GIS

PAST EDUCATIONS

- Ph.D. (**Hydrology**) from **Indian Institute of Technology Roorkee, Roorkee – Uttarakhand** (2013-2018).
Topic: “Hydrological Response of an Experimental Watershed of Lesser Himalaya”
- M. Tech. (Hons.) (**Hydraulics and Water Resources Engg.**) from **Indian Institute of Technology – BHU, Varanasi** (2009-2011).
Topic: “Equilibrium Detention Storage and Time of Travel for Various Cross-sectional Configurations of Open Channels”.
- B.E. (**Civil Engineering**) from **Govt. Engineering College Kota, Rajasthan** (2004-2008) (Now RTU, Kota).
- Participated in Summer School on *Sustainable Water Management in Rural Landscapes*, **Kiel University, Germany, 2015**.

WORK EXPERIENCES

Technical

- Head of Department and Asst. Prof.**, Civil Engg. Dept., Gaya College of Engineering, Gaya, Bihar, Jan-2018 – March-2021.
- Head of Department and Asst. Prof.**, Civil Engg. Dept., Poornima Group of Institution, Jaipur. July-2011-Dec-2012.
- Planning Engineer**, Hyundai Engineering & Construction Company (South Korean Company), September-2008-July-2009.

Administrative

- Industry and Alumni Relation, Faculty In-Charge**, Gaya College of Engineering, Gaya, Bihar, Jan-2020 – continue.
- Research and Development, Faculty In-Charge**, Gaya College of Engineering, Gaya, Bihar, May-2019 – continue.
- Training and Placement Officer**, Gaya College of Engineering, Gaya, Bihar, April-2018 – continue.
- Assistant Warden** (Residential, **Rajiv Bhawan**, Boys hostel, 600 students), IIT Roorkee, September-2013 - June 2015.
- General Secretary**, Civil Engineering Society, IIT B.H.U., Varanasi, Uttar Pradesh, 2010-11.
- Mess Manager**, Morvi Hostel, Indian Institute of Technology B.H.U., Varanasi, Uttar Pradesh, 2010-11.
- Event Manager**, *Abhivyakkti*, National Technical cum Cultural fest of Engg College Kota, Rajasthan, 2007.

Scientific/Technical Events

- Convener**, International Conference, IDEA-2021, Bodh Gaya, India. 8-10 Feb 2021
- Coordinator**, 15 days, Short term course for students on **GIS**, in support of EdgeFx and TEQIP-III, 17-28, September 2020
- Convener**, 1-week FDP on **Managerial, Leadership skills, and Professional Ethics**, TEQIP-III, 10-16, September 2020.
- Coordinator**, 5 days FDP on **Sustainability Engineering**, sponsored by ATAL-AICTE, Govt of India, 17-21, August 2020.
- Organizing Secretary**, National Conference - Infrastructure Development & Environmental Assessment (**IDEA**), 22-24-Oct – 2019.
- Convener**, *Workshop on Soft Computing (So-Co, 2019)*, March 5-9, 2019, Gaya College of Engineering.
- Convener**, Short Term Course on **Remote Sensing and GIS**, September 17-21, 2019, Gaya College of Engineering.
- Convener**, *National Workshop on Advancement and Trends in Water Resources, (NWATWR-2018)* March 13-17, 2018.
- Coordinator**, *IIRS Distance Learning Program*, Gaya College of Engineering, Gaya, Bihar, April – 2018 to continue.
- Organizing Committee Member**, *2nd International Conference, Prague, Czech Republic*. August 12-13, 2019.
- Technical Committee Member**, *International Conference (SMMA 2018)*, Chongqing, **China**. September 15-18, 2018.
- Editorial Board Member**: Springer (SN Applied Science), AS Agriculture and Reviewer in Springer, Elsevier and many more

RESEARCH PROJECTS (3)

- Understanding the relationship between rainfall-runoff behavior and runoff generation mechanisms, Sponsored by **AICTE-MHRD**, **12.34** Lakhs. 2019 (Role - **PI**), (July 2019 – March-2021)
- Modeling and Mapping Soil Infiltration Rates of Gaya District, Sponsored by **AKU-TEQIP**, **3** Lakhs. 2019 (**CO-PI**)
- Sediment modeling using HEC-RAS with foreign collaboration with an Instrument loan of worth **20** Lakhs (**PI**).

LIST OF PUBLICATIONS (Books, Paper Publication and Conference Participation)

Book (6)

- Vikram K.** Deepak A. Prashant S., Biplab G., Anil K., “*WEENTECH Proceedings in Energy*”, U.K. 2021, ISSN: 2059-2353
- Vikram K.** and Dharendra K., “*Swelling Behavior of Expansive Soil*”, *LAMBERT Publishing*, Germany, 2016, ISBN 978-3-659-93480-3.
- Vikram K.** and Rama S., “*Building Technology*”, *Priya Tech Publication*, 2013, 978-81-9240-90-9-2.
- Vikram K.**, Sirvi N. L. and Kalirawna M. R., “*Theory of Structure – Vol I*”, *Priya Tech Publication*, 2013, 978-81-9240-29-5-6.
- Vikram K.**, “*Hydraulics and Hydraulic Machines*”, *Priya Tech Publication*, 2012, 978-81-9240-49-9-8.

- **Vikram K.**, Gupta R. C. and Vishnaliya B. K., “*Quantity Surveying and Valuation*”, Priya Tech Publication, 2012, 978-81-9240-29-9-4.

Book Chapter (2)

- **Vikram K.**, Shanu, “*Application of Machine Learning Techniques for Clustering of Rainfall Time Series Over Ganges River Basin*”, in: Chauhan M.S., Ojha C.S.P. (eds) *The Ganga River Basin: A Hydro-meteorological Approach*. Society of Earth Scientists Series. pp 211-218, 2021. DOI [10.1007/978-3-030-60869-9_14](https://doi.org/10.1007/978-3-030-60869-9_14). (Springer)
- **Vikram K.** and Sumit S., “*Analysis of Spring Discharge in the Lesser Himalayas: A Case Study of Mathamali Spring, Aglar Watershed, Uttarakhand*”. 2017. DOI [10.1007/978-981-10-5711-3_23](https://doi.org/10.1007/978-981-10-5711-3_23). (Springer)

Papers in International Journal (20)

- **Vikram K.** and Granthi, S., “*Role of river stage in characterization of phreatic line*”, *World Journal of Engineering*, 18(3): 426-441, 2021 DOI:[10.1108/WJE-03-2020-0100](https://doi.org/10.1108/WJE-03-2020-0100) (Scopus)
- **Vikram K.**, Barkha C; Padam O.; Shaktibala and H.Md. Azamathulla, “*Experimental study on infiltration pattern: Opportunities for sustainable management in the Northern region of India*”, *Water Science and Technology (IWA)* 2021. (Accepted in Press) (SCI)
- Prashant B, Hazi Azamathulla, Lee L., **Vikram K** and Jerome H., “*Predictive modelling of the stage–discharge relationship using Gene-Expression Programming*”, *Water Supply (IWA)* 2021. DOI: [10.2166/ws.2021.111](https://doi.org/10.2166/ws.2021.111). (Accepted in Press). (SCI)
- Padam Jee Omar and **Vikram K.**, “*Assessment of damage for Dam Break Incident in Lao PDR using SAR data*”, *International Journal of Hydrology Science and Technology*. 2021. (Accepted in Press) (Scopus)
- **Vikram K.** and Santosh P., “*Application of High-Frequency Spring Discharge Data: A Case Study of Mathamali Spring Rejuvenation in garhwal Himalaya*”. *Water Supply*, 20 (8): 3380–3392, 2020. DOI: [10.2166/ws.2020.223](https://doi.org/10.2166/ws.2020.223) (SCI)
- **Vikram K.**, Kailash N., Manvendra S. C., Prabaht K. S. D., Shyam B. D., “*Identification of Groundwater Prospective Zones of Varuna Watershed using Weighted Overlay Method*”. *Journal of Environmental Protection*. 2020. (Scopus) (Accepted, in Press)
- **Vikram K.**, Sumit S. and Pankaj C., “*Prioritization of Aglar sub-watersheds for watershed management perspective in Lesser Himalaya using geospatial approach*”, *Modeling Earth Systems and Environment*. 2020. 7(2), 1269-1279. (Scopus)
- Ayatou K.K., Pachoukova I., Raj B., **Vikram K.** “*Influence of Flat-Shaped Aggregates in Granular Skeleton on Its Compactness*”. *Lecture Notes in Civil Engineering*, Vol 72, 41-49, 2020. (Scopus)
- **Vikram K.** and Sumit S., “*Assessment of Spring Potential for Sustainable Agriculture: A Case Study in Lesser Himalayas*”, *Applied Engineering in Agriculture, Transactions of the ASABE*. 36(1): 11-24. 2020 DOI: [10.13031/aea.13520](https://doi.org/10.13031/aea.13520). (SCI)
- **Vikram K.**, “*A study of travel time for different open channels*”, *Journal of The Institute of Engineers (Series A)*, 101(2): 399-407, Springer, 2020. DOI: [10.1007/s40030-020-00439-3](https://doi.org/10.1007/s40030-020-00439-3). (Scopus)
- Manish K., Prabhat S., Arun L., **Vikram K.** “*Adsorptive properties of cation added Hydrous Bismuth Oxide on nitrate sorption*”. *Journal of Water Chemistry and Technology*, 41(9): 283–291, 2019. DOI: [10.3103/S1063455X19050035](https://doi.org/10.3103/S1063455X19050035) (SCI)
- Aliva N., Sumit S., Vijay J., Anupma S., **Vikram K.**, “*Understanding Plot-Scale Hydrology of Lesser Himalayan Watershed - A Field Study and HYDRUS-2D Modeling Approach*”, *Hydrological Processes*, 32(9): 1254-1266, 2018. DOI: [10.1002/hyp.11499](https://doi.org/10.1002/hyp.11499). (SCI)
- **Vikram K.** and Sumit S., “*Evaluation of spring discharge dynamics using recession curve analysis: a case study in data-scarce region, Lesser Himalayas, India*”. *Sustainable Water Resources Management*, 4(3), 539-557. 2018. DOI: [10.1007/s40899-017-0138-z](https://doi.org/10.1007/s40899-017-0138-z). (SCI)
- Shanu, **Vikram K** and Sandeep, “*A Classed Approach towards Rainfall Forecasting: Machine Learning Network*”, *International Journal of Swarm Intelligence*, 3(4): 276–289, 2018. DOI: [10.1504/IJSI.2017.10008892](https://doi.org/10.1504/IJSI.2017.10008892).
- **Vikram K.**, Shanu, Jahangeer, “*Statistical Distribution of Rainfall in Uttarakhand, India*”. *Applied Water Science*. 7(8), 4765–4776, 2017. DOI: [10.1007/s13201-017-0586-5](https://doi.org/10.1007/s13201-017-0586-5). (SCI)
- Aamir I. S., Sumit S., Mehraj U. D. and **Vikram K.**, “*Land-Use/Land-Cover Change Detection and Analysis in Aglar Watershed, Uttarakhand*”. *Current Journal of Applied Science and Technology*, 24(1): 1-11, 2017. DOI: [10.9734/CJAST/2017/36019](https://doi.org/10.9734/CJAST/2017/36019).
- Manvendra S., **Vikram K.**, Atul R., Dikshit P.K. S. and Dwivedi S.B., “*Spatial distribution of the suspended sediment of river Ganga at Varanasi, U.P., India*”. *International Journal of Earth Sciences and Engineering*, 10(3):533-540, 2017. DOI:[10.21276/ijee.2017.10.0310](https://doi.org/10.21276/ijee.2017.10.0310).
- **Vikram K.**, Jahangeer, Padm N. T. and Shaktibala, “*Comparative study of soil physical characteristics of Jaipur district, Rajasthan*”. *African Journal of Environmental Science and Technology*, 11(1):45-55, 2017. DOI:[10.5897/AJEST2016.2200](https://doi.org/10.5897/AJEST2016.2200).
- **Vikram K.**, Sumit S, “*Estimation of Uncertainties in Stage-Discharge Curve for an Experimental Himalayan Watershed*”. *AGU Fall Meeting Abstracts*. 2016, adsabs.harvard.edu/abs/2016AGUFM.H43J1616K. (SCI- Conference)
- Manvendra C., **Vikram K.**, Dikshit P. K. S. and Dwivedi S. B., “*Comparison of Discharge Data Using ADCP and Current Meter*” *International Journal of Advances in Earth Science*, 3(2):81-86, 2014.

Papers in National Journal (2)

- Jahangeer, Shaktibala, Pankaj G. and **Vikram K.**, “*Quantitative Risk Assessment of L.P.G. Bottling Plant*”, *Anusandhan-AISECT Journals of Science, Engineering & Applied Science*, 2017, 6(11):1118-1126.
- Shanu, **Vikram K.** and Atul K., “*An Efficient Algorithm for Modeling and Estimation of Ground Water Level Fluctuation*”, *Journal of Indian Water Resources Society*, 2015, 35(4):7-13.

Participation in International conference (10)

- Vikram Kumar, Prabhat K.S.D. and Shaktibala, “*Review of Evapotranspiration methodologies*”, *IWA Water and Development Congress & Exhibition 2019. Colombo, Sri Lanka*
- Sumit S. & **Vikram K.**, “*Application of High-Frequency Spring Discharge Data in the Himalayan Region (IHR)*”, *International Conference on Sustainable Water Management*, ISB, Mohali, **Chandigarh**, 10-11- December 2018.

- **Vikram K.**, Shaktibala, Prabhat K.S.D., “*Water Resources Status in Bihar (India): Current and Future Challenges and Research Direction*”, *Water Security and Climate Change Conference, (WSCC 2018)*. **Narobi, Kenya**, December 03-05, 2018.
- **Vikram K.**, Sumit S., “*Optimal crop planning under the constraint of area and water demand using multi-objective programming*”, *American Society of Agricultural and Biological Engineers (ASABE-18)*, **Hyderabad, India**, October 03-06, 2018.
- Shaktibala, Pankaj G, Jahangeer, **Vikram K.**, “*Analysis and Review on Drought in Udaipur District of Rajasthan*”, 25th International Conference on Researches in Science and Technology (ICRST), **Kuala Lumpur, Malaysia**, 17-18 Nov 2017,
- **Vikram K.** and Sumit S., “*Morphometric Analysis of lesser Himalaya: a case study of Aglar watershed*”, *HYDRO International - 2016, 21th International Conference on Hydraulics, Water Resources and River Engineering*, **Pune – India**, 08-10 December 2016.
- Atul K. R., **Vikram K.**, Manvendra S. C., “*Rainfall and Temperature Trends in Varanasi, Uttar Pradesh*”, *Eco Summit-2016, France*. 29 August – 1 September 2016.
- Shaktibala, Jahangeer and **Vikram K.**, “*Quantitative Risk Assessment of LPG Bottling Plant*”, *Global Enviro Care Summit*, organized by R.L.E.K. Foundation and W.F.B. Standing Committee on Environment Bangkok, Thailand, July 2016.
- **Vikram K.** and Sumit S., “*Analysis of Spring Discharge in the Lesser Himalaya: A Case Study of Mathamali Spring*”, *International Conference on Water, Environment, Energy and Society*, **Bhopal, India**, 15-18 March 2016.
- Ravi P. T., Pandey K.K., Atul K. R., **Vikram K.**, Nawnit K., “*Comparison of Time Variation of Local Scour near T-Shape Spur Dyke at 30 & 60 Degree*”, *HYDRO 2015 International*, IIT Roorkee, **Roorkee**, December 17-19, 2015.
- Sumit S. and **Vikram K.**, “*Developing an Instrumented Watershed in the West Himalayas, India: Need and Challenges for Hydrological Sciences*”, *ASABE Annual International Meeting, ASABE-15*, New Orleans, **Louisiana, U.S.** 26-29, July -2015.

Papers in National conference (6)

- **Vikram K.**, “*Annual average rainfall distribution in Bihar*”, Recent Advances in Civil Engineering, NIT Patna, Patna, June 6-7, 2019
- **Vikram K.**, Manvendra S. C., Atul K. R., Shaktibala “*Overview on Sediment Issues*” *National Conference on Water Resources & Hydropower-2016*, organized by UPES, **Dehradun**, 17-18 June, 2016.
- **Vikram K.**, Saurabh S., Nikita S. and Atul K. R., “*Change in Land Cover Pattern in Ramgarh Dam*”, *National Conference on Open Source GIS: Opportunities and Challenges*, I.I.T. B.H.U., **Varanasi**, October 9-10, 2015.
- Sumit S., **Vikram K.** and Raushan K., “*Static and Dynamic Response of Hydrologic Characteristics on Spring Discharge in the Tehri Garhwal region of Uttarakhand*” *FFCSWR-2014*, organized by ICAR, **Dehradun** March 22-24, 2014.
- **Vikram K.**, Pankaj C., Atul K. R., “*Effects of Climate Change on Water Resources*”, *National Seminar organized by department of Farm Engineering, IAS, BHU, Varanasi*, January 14-15, 2011. Pg. 235-251.
- **Vikram K.**, Bikram P. and Pankaj C., “*Global Warming and Its Effects on Water Resources-India*”, *National Seminar on Global warming and its effects on water resources*, Graphic Era University, **Dehradun**. Dec 03-04, 2010.

M. Tech. THESIS SUPERVISION (1)

- Application of advanced cementitious material for sustainable infrastructure by **Henry Nyekeni Vic Echikwa** - 2018

AWARDS & REORGANIZATIONS (13)

- **Focus Area Science Technology Summer Fellowship**, by Indian Academy of Sciences, Bengaluru, India, 2020.
- **Young Scientist Award**, by VDGOD Professional Association, Hyderabad, India, 2020.
- **Aquatec Equipment Awards 2019**, by Aquatec Group, U.K., 2019 for carrying out the research project on HEC-RAS.
- **Young Scientist** by Science and Engineering Research Board, DST, Govt. of India, October 2019.
- **Young Faculty in Engineering** by Venus International Foundation, June - 2019.
- **Academic Leadership Award** by International Business Academic Excellence Award team, 2019.
- **Young Researcher Award**, Conferred in London (UK) during International Conference (ICACTM 2019), April-2019.
- **Student Travel Grant**, by American Society of Agricultural and Biological Engineers (**ASABE**) – October – 2018.
- Deutscher Akademischer Austausch Dienst (**DAAD**) **Fellow**, Govt. of Germany for Summer School-2015, Germany, (2015).
- Ministry of Human Resource Development (**MHRD**), Govt. of India fellowship for Ph.D. (2013-2017) and M. Tech. (2009-2011).
- Department of Science and Technology (**DST**)- Jaipur, awarded **research project** on Seismic Isolation Devices, (2011-12).
- **Gold medal** (twice) in National sports meet at **Bengaluru** and **Jabalpur**, India, (2009 & 2010).
- **First rank** in the essay competition, Pratibha-2006, **TSVP**, University College of Engineering, Kota (2006).

PROFESSIONAL MEMBERSHIPS

- International Water Association, Member Since 03 December 2019, Member No. **1620207**
- International Association of Hydrological Sciences (IAHS), France, Member No. **13425**
- European Water Resources Association (EWRA) - **15081801**.
- Indian Association of Hydrologist (IAH), India, Life Member, LM-**1793**
- Indian Water Resources Society (IWRS), India, Life Member, LM-**13-7426**
- International Association of Engineers (IAE), Member No. **138737**
- International Water Resources Association (IWRA), Member ID: **6198**
- Nordic Association of Hydrology (NAH)
- World Association for Scientific Research and Technical Innovation (WASRTI), Life Member -**M16102**

ADDITIONAL INFORMATIONS (Short-Term Training Program/Workshop/Seminar Participation) (20)

- Certificate Course on *Backyard Meteorology: The Science of Weather* from **Harvard University**. 2020.
- 5 days International Virtual Workshop on *Climate Change Impact on Water Resources Systems*, NIT Silchar, 28 Sept - 02 Oct 2020.
- 3 Week online certificate program on **Hydro meteorological and Extreme Events Disaster Risk Management**, 1-21 June, 2020.
- Short term training program on Environmental Sustainability, Organized by Bakhityarpur College of Engg. Patna, 25-29 May 2020.
- 7 days' live webinar on **QUALITY ARTICLE WRITING - TIPS AND TRICKS** organized by M.G.R. Educational and Research Institute, Chennai. 22-28 April 2020.
- TEQIP-III Sponsored One Week Online FDP on **Recent Advances in Civil Engineering** organized by Civil & Environmental Engineering Department, VJTI Mumbai 2-7 June 2020.
- Three Day International Webinar on **Computational Trends and Applications in Civil Engineering** organized by JSS Academy of Technical Education Noida, 8-10 June 2020.
- Professional Development Course on **Sustainable Management of Groundwater Resources**, 3-7 September 2019. Patna – Bihar
- **IUKWC Workshop** on Safe & Sustainable Technologies & Strategies for Integrated Freshwater Resource Management, 25 – 28 June 2019.
- Summer Training Program on **Advanced Pedagogy and Digital Tools**, organized by IIT Kanpur, Kanpur, 10 -14 June 2019.
- Faculty Development Program, on **Research Methodology**, Gaya College of Engineering, Gaya – January 2019.
- **Emerging Hydrometric Techniques for Discharge Estimation and Rating Curve Development**, GIAN Workshop, organized by Department of Hydrology, IIT Roorkee, Roorkee, 03 -08 April 2017.
- Workshop: **Challenges in Irrigation Management for Food Security**, Indian Water Resources Society, Roorkee, 26-27 November 2016.
- GIAN Training course: **BASIN/HSPF**, organized by Department of Hydrology IIT Roorkee, Roorkee, 06 -14 June 2016.
- Certificate Course on *Big Data: Mathematical Modelling* from **Queensland University of Technology, Australia. 2016**
- **Application of Isotopes in Hydrology and Water Resources**, Training, organized by NIH, Roorkee, 29 February – 04 March 2016.
- **Flood Risk Mitigation and Management**, Training course, jointly organized by National Institute of Disaster Management, New Delhi and National Institute of Hydrology, Roorkee, 07 -11 September 2015.
- Training course: **Integrated Catchment Modelling**, organized by National Institute of Hydrology, Roorkee, 09 -13 February 2015.
- National workshop: **Advanced Soft Computing Techniques in Hydrology and its Application**, organized by the National Institute of Hydrology, Roorkee, 27 November-02 December 2014.
- National Workshop: **Recent Developments in Design and Construction Techniques of Brick Masonry Buildings**, organized by Department of Civil Engineering, IIT BHU, Varanasi, 3-4 March 2012.

ACHIEVEMENTS

- **Topper** in M. Tech. Civil Engineering branch and passed with an **honors** degree, 2011.
- **Class Representative** as well as **Training and Placement Representative**, Civil Engineering, 2009-2010, **IIT BHU**, Varanasi.
- Certificate of **excellence** in reviewing by Asian Soil Research Journal and Applied Journal of Science and Technology.
- **Silver medalist** thrice in State level sports meets in Volly ball and Kho Kho.
- Worked as a social worker for **BHARAT SCOUT & GUIDE** Federation.

COURSES TAUGHT

PG: Engineering Hydrology

UG: Fluid Mechanics, hydrology, Hydraulics, and Open Channel Flow, Building Material and Construction, Engineering Geology.

INFRASTRUCTURE AND COURSE DEVELOPMENT

- Established the **Hydrology Research Laboratory**, Gaya College of Engineering, Gaya, Bihar (**TEQIP-III**, MHRD, Sponsored)-2019.
- Member syllabus review committee for Civil Engineering - Aryabhata Knowledge University Patna.

SOFTWARE SKILLS

Software Skills: Arc-GIS, HEC-HMS, BASIN, MATLAB, Python, R, SWAT, SWDESH.

REFERENCES (2)

1. **Dr. Sumit Sen**, Associate Professor, Department of Hydrology and Associated Faculty, Centre of Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee, Email: sumit.sen@hy.iitr.ac.in Contact: +91-9457449522
2. **Prof. (Dr.) Prabhat Kumar Singh Dikshit**, Professor, and Head, Department of Civil Engineering, Indian Institute of Technology, (Banaras Hindu University), Varanasi-221005, Email: pkdikshit.civ@itbhu.ac.in, Contact: +91- 8004929356



Dr. Vikram Kumar