Prakhar Modi

ASSISTANT PROFESSOR

Department of Civil Engineering
School of Studies in Engineering and Technology
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RESEARCH INTEREST

Drought Studies, Water Quality Studies, Flood Routing, Rainfall-Runoff Modelling, GIS.

EDUCATIONAL QUALIFICATION

Doctor of Philosophy in **C**ivil **E**ngineering

Masters of Technology in **W**ater **R**esources **E**ngineering

Bachelor of Engineering in **C**ivil **E**ngineering

SOFTWARE EXPOSURE

Languages: MATLAB, FORTRAN

Software: GIS, SWAT, HEC-RAS, HEC-HMS, WEAP, LINDO, EPANET

TRAINING/WORKSHOP

- Completed 5 days hands-on training program on "GeoMedia, ERDAS IMAGINE & Photogrammetry" held at NIT Patna.

- Completed 5 days GIAN course on "Analysis and Design of Structures in Fire (ADSF-2017)" at NIT Jamshedpur

- Completed 5 days GIAN course on "Unified Biochemical Pollution and Hydrologic Modelling" at NIT Jamshedpur.

- Participated in 5 days National Workshop on "Recent Advances in Civil Engineering Research (RACER-2019)" at NIT Jamshedpur.

- Completed One week training program on "SWAT MODELING" organized by NIH Roorkee.

- Attended 6 days STP on "Sustainable Water Resources Management under Changing Climate" organized at IIT Indore.

- Completed Module 1-8 of NITTT organized by AICTE

- Completed one week ATAL fdp on "New Age Infrastructures" by AICTE

- Completed one week ATAL fdp on "Advance Improvement Techniques" by AICTE

- Completed Guru-Dakshta FIP organized by HRDC, GGV, Bilaspur.

- Completed two week Refresher Course in " Advanced Concepts in Developing MOOCS" organized by PMMMNMTT

CONFERENCES/PUBLICATIONS

[1]. Rao, C. M., **Modi, P.**, Jhajharia, D. (2022). Water Quality Analysis at Mancherial, Jagdalpur and Konta Using Non-parametric Methods. In: Rao, C. M., Patra, K.C., Jhajharia, D., Kumari, S. (eds) Advanced Modelling and Innovations in Water Resources Engineering. Lecture Notes in Civil Engineering, vol 176. Springer, Singapore. https://doi.org/10.1007/978-981-16-4629-4_42

[2]. Chintalacheruvu,M. R., & **Modi, P**. (2023). Application of best subset method for river water quality modeling: A study on Godavari River, India. *Environmental Quality Management*, 33(1), 393–409. https://doi.org/10.1002/tqem.22067

[3]. **Modi, P**., & Chintalacheruvu, M. R. (2024). Investigating river water quality assessment through non-parametric analysis: A case study of the Godavari River in India. *Environmental Quality Management*, 33(3), 239–264. https://doi.org/10.1002/tqem.22117

[4]. **Modi, P**., Majhi, K. K., & Gogineni, A. (2024). Examining the spatial and temporal vulnerability to drought in Odisha, India. *Water Practice & Technology*, *19*(5), 1644-1658. doi: https://doi.org/10.2166/wpt.2024.097

[5]. Chintalacheruvu, M.R., **Modi, P.** (2023). A Statistical Approach to the Prediction of Fluoride in River Water Using the Best Subset Method. In: Yadav, A.K., Shirin, S., Singh, V.P. (eds) Advanced Treatment Technologies for Fluoride Removal in Water. Water Science and Technology Library, vol 125 . Springer, Cham. https://doi.org/10.1007/978-3-031-38845-3_17

[6]. Kumar, P., Gogineni, A., Kumar, A., & **Modi, P.** (2024). A Comparative Analysis of Machine Learning Algorithms for Predicting Fundamental Periods in Reinforced Concrete Frame Buildings. *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, 1-20. https://doi.org/10.1007/s40996-024-01560-0

EXPERIENCE/ACHEIVEMENTS

- 12 months teaching experience as a Pro-term Lecturer in C.E.C Bilaspur.
- Selected as a Lecturer (Engineering and Technology) under Statute-19 of the university, C.S.V.T.U Bhilai, as per the recommendations of the Selection Committee.
- Working as an Assistant Professor in Department of Civil Engineering, Guru Ghasidas Vishwavidyalaya from February 2020 to Present.

(PRAKHAR MODI)