

# CURRICULAM VITAE

## MANIKANT VERMA

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ASSISTANT PROFESSOR  
DEPT. OF CIVIL ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY  
RAIPUR  
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**OBJECTIVE:** To be associated with a progressive organization that provides an opportunity to apply my knowledge and skills in order to keep abreast with latest trends and technologies.

**STUDY INFORMATION:** Ph.D. Pursuing (in Water Resources at NIT Raipur)

University/College - Indian institute of science-Bangalore  
Specialization - Water Resources and Environment Engineering(Civil Engg)  
Duration of course - 2 years (M.E. Program)

A list of subjects studied in M.E. Program:-

Fluid Mechanics	System Techniques in Water Resources & Environmental Engg
Surface Water Hydrology	Computational methods in Water Resources Engineering
Ground Water and Contaminant Hydrology	Numerical methods –Mathematics
Water quality Modeling	Design of water supply and Sewerage Systems
Stochastic Hydrology	Experimental methods in Environmental Engineering
Geo Environmental Engineering	Urban Hydrology
Ground Water Engineering	Regionalization in Hydrology and Water Resources Engineering
Remote Sensing and GIS for Water Resources and Environmental Engineering	

**EDUCATION RECORD:-**

EXAMINATION	INSTITUTION/ BOARD	PASSING YEAR	% MARKS/CGPA
Ph.D. (CIVIL ENGG.)	NIT Raipur	Pursuing	On Hydrological Modeling
M.E.(WREE)	INDIAN INSTITUTE OF SCIENCE-BANGALORE	2012	6.9 OUT of 8 (Distinction)
B.TECH. (CIVIL ENGG.)	G.B. PANT UNIVERSITY OF AGRI. & TECH.- PANTNAGAR	2010	7.886 OUT of 10 (78.86%),(Distinction) Rank-6 <sup>th</sup> in class of 40 Students.
XII	BIHAR BOARD( B.I.E.C)	2005	56.33%
X	BIHAR BOARD( B.S.E.B)	2003	75.86% (School Topper)

**EXPERIENCE:**

- I worked as an Assistant Professor at SHARDA University from 16.07.2012 to 25.04.2013. I taught Fluid Mechanics, Advance Surveying and GIS subjects.
- I am working as an Assistant Professor at NIT Raipur from 06.05.2013. I am teaching Fluid Mechanics, Advance Fluid Mechanics, Watershed Conservation and Management and System techniques in water resources subjects.

**TECHNICAL SKILLS: -**

- Programming Languages : C, C++, FORTRAN, MATLAB, R
- Software : EPANET, SWMM, HEC-HMS, AWARE-P, ArcGIS, SWAT.
- Operating System : MS DOS, WINDOWS

**M.E. PROJECT:** - Field related to Urban Water Distribution System. I am working on Asset Management, Reliability measures. I am using IISc Water Supply Network and Bangalore WDS as a part of my M.E. Project. I am working under the guidance of Prof. M.S. Mohan Kumar, IISc.

**M.E. SUMMER INTERNSHIP IN U.K.:** - I have done summer internship under the guidance of Prof. Savic Dragan in University of Exeter, U.K. from 6<sup>th</sup> June to 25<sup>th</sup> July, 2011. I have done research work on Pump Scheduling Optimization using NLP in Microsoft Visual Studio C++.

**B.TECH. PROJECT:** - Analysis and design of Microwave (Communication) Tower.

**B.TECH. PRACTICAL/ INDUSTRIAL TRAINING:** - Analysis of problems faced in execution of concrete at site; period - (30 days, 9<sup>th</sup> June to 8<sup>th</sup> July 2009) ; Organization:- Hindustan Construction Company Ltd.

## **SEMINARS, WORKSHOPS AND MINI PROJECTS:-**

### **Workshop/ training program organized**

- Organized a National level Workshop of one week duration on Visual MODFLOW software held at NIT Raipur, 2013 as organizing secretary.
- Organized a National level Workshop of one week duration on Water Resources in developing countries: Planning & Management (27th, 28th August, 2015) at NIT Raipur as co-coordinator.
- Organized a National level Workshop of one week duration on Testing Methods in Civil Engineering Construction (16-20 November, 2015) at NIT Raipur as co-coordinator.
- Organized one day workshop under research project “Construction of Low Volume Roads on Soft Subgrade Soil Improved by Locally Available Marginal Materials” funded by Human Settlement Management Institute (HSMI), HUDCO New Delhi at Civil Engineering Department, National Institute of Technology Raipur in association with HSMI, HUDCO New Delhi on 14<sup>th</sup> August 2015 as organizing member.
- Organized one day workshop “Research Schemes in DST & Recent Advances in Civil & Transportation Engineering” under TEQIP-II at Civil Engineering Department, National Institute of Technology Raipur on 1<sup>st</sup> August 2015 as organizing member.

### **Guest Lectures Delivered:**

- Delivered a lecture on Hydrological Modeling in GIS Environment: using ArcGIS, HEC-GeoHMS, HEC- HMS during the National Workshop on Water Resources in developing countries: Planning & Management (27th, 28th August, 2015) at NIT Raipur.
- Delivered a lecture on Measurement of Flow during the National Workshop on Testing Methods in Civil Engineering Construction (16-20 November, 2015) at NIT Raipur.

### **Workshop/ training program Attended**

- Participated at the Edu- excursion camp organized as part of the project, “ Inter-University Competition on Water Resources Management’, from 26-31 October 2015 at Gurgaon organized by TERI University.
- Attended a training course of one week duration on SWAT Modeling at NIH Roorkee in 2013.
- Attended a workshop cum training program of one week duration on Time Series Analysis and its Application at NIT Patna in 2014.
- Attended a monsoon school of one week duration on Urban Floods at IISC Bangalore in 2014.

- Attended a workshop cum training program of one week duration on Integrated Catchment Modeling at NIH Roorkee in 2015.
- Attended a workshop of one week duration on Advance Data Analysis for Management at IIT Delhi in 2015.

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#### **Seminars:**

- Presented a seminar on Methods of Estimation of Infiltration in Watershed.
- Presented a seminar on Thermal Remote sensing of Urban Climate.
- Presented a seminar on Real Time Monitoring of Urban Water Distribution System.
- Application of Remote Sensing to Ground Water Exploration and site for artificial recharge.
- Modeling storm surge flooding of an urban area with particular reference to modeling uncertainties
- Presented a seminar on different Probability distribution function and Goodness of Fit test
- Have done a mini project on the application of SWMM in Urban Hydrology Course.
- Have done a short term project on Ground Water Modeling using Visual MODFLOW.
- Prepared a statistics model for analyzing time series data. (ARIMA model etc.)

#### **Awards / Competitions:-**

- Had secured 75 Rank (99.62%tile) in Gate 2010 and Gate Score 717. Also secured 1010 rank in Gate 2012.
- Had Secured 17,319 All India Rank in AIEEE in 2006.
- Won First prize in college level competition on Hindi Questionnaire at NIT Raipur in 2015.
- Participated at the National competition organized under the project: 'strengthening Water and Sanitation in Urban Settings: Inter-University Competition on Water Resources Management' organized on 28<sup>th</sup> January 2016 at New Delhi by TERI University.
- Won Second Prize in District Level Competition on Mathematics in 9<sup>th</sup> Class.

#### **CO- CURRICULAR ACTIVITY:-**

- Participated in "Water summit" Program (Sponsored by "TEQIP") at G.B.P.U.A. &T., Pantnagar.
- Attended "Entrepreneurship Awareness Camp" (Sponsored by NSTEDB) at G.B.P.U.A. &T., Pantnagar.
- Appreciation Certificate of German Language in Liberal Education Program at G.B.P.U.A. &T., Pantnagar.

- Appreciation Certificate of French Language in Liberal Education Program at G.B.P.U.A. &T., Pantnagar.
- Has passed the National Service Scheme 'B' & 'C' Certificates Examination.
- Had done Volunteer work under N.S.S.
- Participated in Summer Camp Workshop on Mathematics held in June 2007.

**PERSONAL DETAIL :** -

- Father's Name - Shree Krishna Kant Prasad
- Date of birth - 28/02/1988
- Permanent Address - Nirala Nagar Gaushala Road, Ramna, Muzaffarpur, Bihar-842002
- Hobbies - Playing Cricket, Billiards, Snooker, Tennis, Yoga, Sudoku.

**DECLARATION:**

I consider myself familiar with WATER RESOURCE AND ENVIRONMENTAL ENGINEERING aspects. I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Date: 07/03/2016

Place: Raipur

**(MANI KANT VERMA)**