

## **CURRICULUM VITAE**

**Name – Dr. Vijayendra Pratap Dheeraj**

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**Google Scholar Link – <https://scholar.google.com/citations?user=NsWVxk8AAAAJ&hl=en>**



### **ACADEMIC DETAILS**

**Institute:** Indian Institute of Technology (BHU), Varanasi

**Specialization:** Mine Environment

**Course:** Ph.D.

**Institute:** National Institute of Technology Patna

**Specialization:** Environmental Engineering

**Course:** M.Tech

**DOB:** Oct /20/1992

**Sex/Age:** Male

**Languages:** Hindi, English

### **CAREER OBJECTIVE**

I wish to pursue a career that will constantly provide me with new and diverse challenges that will stretch my capabilities, resulting in personal satisfaction, professional growth. Moreover, my punctuality and discipline will help me in pursue a responsible and growth-oriented career.

### **ACADEMIC PERFORMANCES**

Examination	College/ University	Subject's/Discipline	Percentage /CGPA	Year
Ph.D.	IIT (BHU), Varanasi	Mine Environment	9.40	2019-2024
M. Tech	NIT Patna	Environmental Engineering	8.21	2016-2018
B. Tech	REC Azamgarh	Civil Engineering	73%	2010-2014
Class XII	SMT. I G H S S Padmidan Ghosi	Science Side (PCM)	67%	2008
Class X	SMT. I G H S S Padmidan Ghosi	Hindi, English, Math, Science, SS, Drawing	71%	2006

## EXPERIENCES

S. No.	Designation	College/ University	Session
1.	Guest Faculty	M.M.M University of Technology Gorakhpur	2015-2016
2.	Guest Faculty	Rajkiya Engineering College, Ambedkar Nagar	2018-2019
3.	Guest Faculty	Rajkiya Engineering College, Ambedkar Nagar	2024 to till date

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## PROJECTS

Course	Project Title
Ph.D.	Impact assessment of Coal mining on ground and surface water in Korba Coalfield Region Chhattisgarh, India
M. Tech	Water Quality Index of River Ganga in Patna, Bihar
B. Tech	Use of waste material in road construction

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## SEMINARS

Course	Seminar
Ph.D.	System Engineering Approach for Safety Management
M. Tech	Rain Water Harvesting on road side of class “A” road
B. Tech	Disposal and Management of Fly-Ash

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### B. Tech Summer Training Program (2012-2013)

## TRAINING

Organization	AFCONS Infrastructure Ltd.
Duration	Four weeks (May 20 <sup>th</sup> – June 20 <sup>th</sup> , 2012)
Project Title	Casting of Girder

## COURSE COMPLETED

S. No.	Organization	AUTOCAD DESIGN CENTRE, Gorakhpur
1.	Duration	Three weeks (July 01 <sup>st</sup> – 21 <sup>st</sup> , 2012)
	Course Name	AUTOCAD Software
2.	Duration	Two Days (September 4 <sup>th</sup> – 5 <sup>th</sup> 2019)
	Course Name	Exploring ArcGIS Pro and Enterprise

## RESEARCH PUBLICATIONS

Journals: Research papers in reputed journals- 08 (Eight)

1. Water quality index during pre-monsoon season of ganga river, **Vijayendra Pratap Dheeraj** and A.R Quaff, Indian journal of environmental protection (Scopus), IJEP 39 (9): 812-818 (2019), (IF-0.2).
2. Evaluation of Groundwater Quality and its Suitability for Drinking and Irrigation Purposes in Ambedkar Nagar City, Uttar Pradesh, **Vijayendra Pratap Dheeraj**, A.K Sonkar & C.S Singh, Journal of Indian water works association (UGC), IWWA oct-Dec Page No. 305-313 (2020), (IF-0.5).
3. Suitability assessment of Ganga River water for drinking and irrigation purposes in Patna region, Bihar, India, **Vijayendra Pratap Dheeraj**, A.R Quaff, A.K Sonkar & C.S Singh, Journal of Indian water works association (UGC), IWWA July-Sept Page No. 182-189 (2021), (IF-0.5).
4. Land Use Land Cover (LULC) Study with Different Geospatial Indices of Korba Coalfield Region, Chhattisgarh, India, **Vijayendra Pratap Dheeraj**, CS Singh, A.K Sonkar, Indian Journal of Environmental Protection (Scopus), IJEP, 42 (12), 1445-1455 (2022), (IF-0.2).
5. Groundwater quality assessment in Korba Coalfield region, India: An integrated approach of GIS and Heavy Metal Pollution Index (HPI) model, **Vijayendra Pratap Dheeraj**, CS Singh, N Kishore, A.K Sonkar, Nature Environment and Pollution Technology (Scopus), NEPT, 22 (1), 369-382 (2023), (IF-1.2).
6. Assessment of surface and ground water quality around Korba Coalfield, India: an integrated approach of water quality index, multivariate statistics analysis and GIS technique, **Vijayendra Pratap Dheeraj**, CS Singh, A.K Sonkar, N Kishore, Sustainable Water Resources Management (Scopus index- Springer), SWAM, 9(6), 1-17 (2023), (IF-2.1).
7. Heavy metal pollution indices estimation and principal component analysis to evaluate the groundwater quality for drinking purposes in coalfield region, India, **Vijayendra Pratap Dheeraj**, CS Singh, A.K Sonkar, N Kishore, Sustainable Water Resources Management (Springer), SWAM, 10 (1), 1-16 (2024), (IF-2.1).

8. Assessment of heavy metal contaminants in groundwater Around mining area by using metal pollution indices multivariate analysis and GIS Technique, **Vijayendra Pratap Dheeraj**, Chandra Shekhar Singh, Ashwani Kumar Sonkar, Saurabh Kumar Barman, Journal of Chemical Technology and Metallurgy (Scopus),59 (4), 897-910 (2024), (IF-0.81).
  9. Hydrogeochemical Quality Investigation of Groundwater Resource using multivariate statistical methods, water quality indices (WQIs), and Health risk assessment in Korba Coalfield Region, India, **Vijayendra Pratap Dheeraj**, C. S. Singh, Aftab Ahmad, Ashwani Kumar Sonkar, Stochastic Environmental Research and Risk Assessment (SCIE), 2025, (IF-3.9).
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## Book Chapters

Book Chapters: Three (03)

1. Water Quality Index of Ganga River between Kali Ghat and Loharwa Ghat in Patna, **Vijayendra Pratap Dheeraj** & A.R Quaff, E-Book: 2<sup>nd</sup> National Conference on Recent Advances in Civil Engineering (RACE-II), NIT Patna (Excel), Page No. 5-13 June 06-07, (2019).
  2. Evaluation of Groundwater quality using water quality index (WQI) in Ambedkar Nagar city, Uttar Pradesh, India, **Vijayendra Pratap Dheeraj**, A.K Sonkar & C.S Singh, Book Chapter: Advances in Civil Engineering (ACE-2020), VNIT Nagpur (Springer Singapore).
  3. A Study on the relationship between Normalized Deferential Vegetation Index and Land Surface Temp. in Coalfield Region, India: An integrated approach of Remote Sensing & GIS, **Vijayendra Pratap Dheeraj**, C.S Singh, N Kishore, Book Chapter: Lecture Notes in Civil Engineering (ICGEID 2024), IIT Patna (Springer Singapore), eBook ISBN978-981-97-1757-6, January 18-20, IIT, Patna, India
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## International Conferences

Conferences: Papers presented in Conferences - Eleven (11)

1. Water Quality Index at Both Bank of Ganga River During Pre-monsoon Season in Patna, **Vijayendra Pratap Dheeraj** & A.R Quaff, International Conference on River Health: Assessment to Restoration (RHAR-2019), IIT BHU, Varanasi, February 14-16, (2019).
2. Assessment of Groundwater Suitability for drinking and irrigation purposes in Singrauli Coalfield Region, Madhya Pradesh, A.K Sonkar, **Vijayendra Pratap Dheeraj**, Aarif Jamal & C.S Singh, 2<sup>th</sup> International Conference on Opencast Mining Technology & Sustainability (ICOMS-2019), NCL Singrauli (M.P), December 13-14, (2019).
3. Water Quality Index of Ganga River During Post-Monsoon Season in Patna, **Vijayendra Pratap Dheeraj** & A.R Quaff, 52<sup>nd</sup> Annual Convention 2020 (IWWA), NIT Patna, January 10-12, (2020).
4. Qualitative assessment of Rihand Reservoir water with special reference to multivariate statistical analysis, Ramita Varshney, A.K Sonkar, **Vijayendra Pratap Dheeraj**, Aarif Jamal & C.S Singh,

- 3<sup>th</sup> International Conference on Opencast Mining Technology & Sustainability (ICOMS-2020), NCL Singarauli (M.P), January 20-23, (2021).
5. Assessment of Rihand Reservoir water quality using WQI Approach in Sonbhadra district, India, **Vijayendra Pratap Dheeraj**, A.K Sonkar, R Varshney & D.K Singh, International Conference on Recent advances in science & Engineering, (RASE-2021), REC Sonbhadra, February 26-27, (2021).
  6. Use of Genetic algorithm and Least Square method for inversion of Aki-Richard and Yanghua Wang approximation of Zoeppritz equation, Dharmendra Kumar Singh, N Kishore & **Vijayendra Pratap Dheeraj**, International Conference on Recent advances in science & Engineering, (RASE-2021), REC Sonbhadra, February 26-27, (2021).
  7. Qualitative assessment of groundwater for drinking and agricultural purposes in Gaya district, Bihar, **Vijayendra Pratap Dheeraj**, Ravikant, A.K Sonkar & C.S Singh, 53<sup>rd</sup> Annual Convention 2020 (IWWA), Hyderabad, March 05-06, (2021).
  8. Groundwater quality assessment using water quality index in Jampali, coal mine, Chhattisgarh, Shah Izhar Ahmed, **Vijayendra Pratap Dheeraj**, A.K Sonkar & N Kishore, International Virtual Conference on Innovative Trends in Hydrological and Environmental Systems (ITHES-2021), NIT Warangal, April 28-30, (2021).
  9. Application of Geospatial Indices for mapping & detection of Land use /Land cover changes in Korba Coalfield mine, Chhattisgarh India, **Vijayendra Pratap Dheeraj** & C.S Singh, 4<sup>th</sup> International Conference on Opencast Mining Technology & Sustainability (ICOMS-2021), NCL Singarauli (M.P), December 13-14, (2021).
  10. Geoelectrical Sounding for Groundwater Exploration Around Nigahi Colony, Singarauli District, Madhya Pradesh, India, Dharmendra Kumar Singh, N Kishore, Birendra Prataph, Ishwar Chandra Rahi, A.K Sonkar & **Vijayendra Pratap Dheeraj**, 4<sup>th</sup> International Conference on Opencast Mining Technology & Sustainability (ICOMS-2021), NCL Singarauli (M.P), December 13-14, (2021).
  11. Spatial And Physicochemical Analysis of Groundwater Quality for Drinking Purpose in Gaya District, Bihar, India, **Vijayendra Pratap Dheeraj**, C.S Singh & Ravikant, International Conference on Environmental Science & Engineering (ICESE-2022), IIT Bombay, January 20-22, (2022).
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## Workshops/ FDP/ STC/ Webinar

S No.	Topic	Organised by	Date
1.	Ethical Hacking & Cyber Security (EHCS-2019) (Workshop)	TEQIP-3 and Department of Information Technology (REC Ambedkar Nagar)	June 06 <sup>th</sup> - 15 <sup>th</sup> , 2019
2.	Leadership, Management Strategy & Professional Ethics (STC)	NITTTR Chandigarh and Department of Civil Engineering (REC Ambedkar Nagar)	April 08 <sup>th</sup> - 12 <sup>th</sup> , 2019
3.	Project Management (STC)	NITTTR Chandigarh and Department of Civil Engineering (REC Ambedkar Nagar)	March 25 <sup>th</sup> - 29 <sup>th</sup> , 2019
4.	Development of soft skilled (MATLAB, LATEX & MATHEMATICA) (Workshop)	TEQIP-3 and Department of Applied Science and Humanities (REC Ambedkar Nagar)	March 25 <sup>th</sup> - 29 <sup>th</sup> , 2019
5.	Essential of Teaching-Learning Process & Research Methodology (FDP)	TEQIP-3 and Department of Electrical Engineering (REC Ambedkar Nagar)	Feb 04 <sup>th</sup> - 09 <sup>th</sup> , 2019
6.	Sustainable Environmental Management through ICT (STC)	NITTTR Chandigarh and Department of Civil Engineering (REC Ambedkar Nagar)	Jan 28 <sup>th</sup> -01 Feb, 2019
7.	Amplifying Proficiency in Advances Civil Engineering (FDP)	Engineering Science Department, AISSMS Institute of Information Technology	July 27 <sup>th</sup> – 31 <sup>st</sup> 2020
8.	Developing Effective Writing and Speaking Skills (Webinar)	BIT Institute of Technology, Hindupur	August 05 <sup>th</sup> – 6 <sup>th</sup> 2020
9.	Author's Conclave (FDP)	Department of Civil Engineering, SRM Institute of Science & Technology Chennai.	A0ugust 11 <sup>th</sup> – 17 <sup>th</sup> 2020
10.	Application of Remote Sensing & in Disaster Management (Workshop)	Vikram Institute of Technology and Management, Gwalior, centre of IIRS, ISRO Dehradun	August 16 <sup>th</sup> – 17 <sup>th</sup> 2020
11.	Climate Change and Disaster Risk Reduction (FDP)	National Institute of Disaster Management (Ministry of Home Affair, GOI, New Delhi)	August 18 <sup>th</sup> – 20 <sup>th</sup> 2020
12.	Recent Advance in Renewable Energy Technology for Sustainable Development (FDP)	Jaipur Engineering University, Kota	August 21 <sup>th</sup> – 22 <sup>th</sup> 2020
13.	Construction Materials and Methods in Civil Engineering (STC)	Department of Civil Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar	August 25 <sup>th</sup> – 29 <sup>th</sup> 2020

14.	Effective Research – Tools, Funding and IPR (FDP)	Department of Mechanical Engineering, Hindustan College of Engineering and Technology, Coimbatore	September 07 <sup>th</sup> – 10 <sup>th</sup> 2020
15.	Sustainable Environmental Geotechnics (FDP)	Department of Civil Engineering, SRKR Engineering College, Andhra Pradesh	October 05 <sup>th</sup> – 09 <sup>th</sup> 2020
16.	Plagiarism and Academic Integrity: Problem and Solution (Workshop)	Manuscriptpedia, Kanyakumari	October 09 <sup>th</sup> – 10 <sup>th</sup> 2020
17.	Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development (FDP)	Department of Computer Science and Engineering, Bipin Tripathi Kumaon Institute of Technology, Almora	October 26 <sup>th</sup> – November 07 <sup>th</sup> 2020
18.	How to Write a Research Paper for an International Journal – Tips, Traps & Tricks (Webinar)	Springer Nature	October 08 <sup>th</sup> 2020

## Thesis Supervised

Institute	Course	Session	Project title
REC Ambedkar Nagar	B. Tech	2018-2019	Monthly variation of water quality index of groundwater Ambedkar Nagar
REC Ambedkar Nagar	B. Tech	2024-2025	Remote sensing-based correlation analysis of Land Surface Temperature and Water Index (LST-NDWI) of Ambedkar Nagar region Uttar Pradesh

## ACADEMIC ACHIEVEMENTS:

Reviewer for Water Environment Research (WER) (Wiley)

Reviewer for Sustainable Water resource management (SWAM) (Speinger)

Reviewer for International Journal of Environmental Analytical Chemistry (Taylor & Francis)

Reviewer for Journal of Engineering Research and Reviews (JERR) (Scopus Indexed)

Graduate Aptitude Test in Engineering (GATE) Qualified in the year 2016.

Secured 2<sup>nd</sup> position in M.Tech with 8.21 CGPA

Scholarship from Ministry of Human Resources Development in M.Tech from July 16 to July 2018.

Scholarship from Ministry of Human Resources Development in Ph.D. from July 2019 to July 2024.

## REFERENCES

Dr. C.S Singh  
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2. Prof. A.R Quaff  
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[Arquaff@nitp.ac.in](mailto:Arquaff@nitp.ac.in)  
Mob. No: +91 9572586093

## Technical Skills Sets

- ❖ Software (Origin Pro, Google Earth Pro, Grapher, Diagrammes)
- ❖ Remote Sensing & GIS (ArcGIS, QGIS, ERDAS IMAGINE)
- ❖ Micro-soft Office 2019
- ❖ AUTOCAD

## STRENGTHS

- ❖ Research Oriented & writing the research paper.
- ❖ Data analysis and visualization.
- ❖ Strong academic background.
- ❖ Self-motivated and disciplined.
- ❖ Work effectively and efficiently.

## PERSONEL INFORMATION

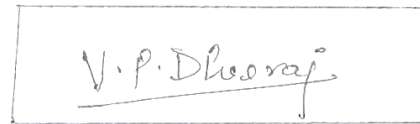
**Father's name** : Late Munni Lal Sonker  
**Mother's name** : Late Smt. Dhanno Devi  
**Address** : Kasba Khas Ghosi Post-Mirza Jamalpur, District- Mau (Uttar Pradesh)



## DECLARATION

I hereby certify that the information provided is accurate and true to the best of my knowledge and understand & agree to abide by the rules, regulations, and norms established by esteemed institute.

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A rectangular box containing a handwritten signature in cursive script that reads "V.P. Dheeraj".

Dr. VIJAYENDRA PRATAP DHEERAJ