

## BRIEF RESUME

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I am presently working as a **Professor & Head** in Civil Engineering Department at Central University, Mahendergarh since **August 24, 2021**. I have accumulated **Twenty-five years** of extensive teaching and administrative experience. Prior to this, I held the position of **Associate Professor & Head at the same institution from August 24, 2018, to August 23, 2021**. Additionally, I served as the **Professor & Head** of the Civil Engineering department at UPES, Dehradun, from 2012 to August 23, 2018. Preceding these roles, I worked as **Professor & Head (2009-2012)**, Associate Professor & Head (2007-2008) in the Civil Engineering department at **Maharishi Markandeshwar University, Mullana**, and as an Assistant Professor (2005-2007). Furthermore, I have experience as a Lecturer in Civil Engineering from 2004 to 2005 at Maharishi Markandeshwar Engg. College, Mullana, and **Jind Institute of Engineering and Technology, Jind**, from 1st Feb 1999 to 2004.

### **Educational Qualifications**

I completed my B.E. in Civil Engineering in 1996 with first division from Sant Gadge Baba Amravati University, Amravati, followed by an M.Tech in Water Resources Engineering with first division in 1999 from REC Kurukshetra. Subsequently, I did my Ph.D. specializing in "*Scour Protection around Bridge Piers*" in 2005, from REC Kurukshetra (Now NIT Kurukshetra).

### **Five Patents Granted**

Recently, my research endeavors have resulted in the successful granting of five patents, with four patents obtained in 2023 and 2024. These patents are "**Erosion Detection by WPAN Based Erosion Monitoring Device**" (Patent No. 497874), "**A system for remotely visual inspection and monitoring of road surfaces for cracks and method thereof**" (Patent No. 491997), "**Inverted vertical E plate bank protection system for river**" (Patent No. 468510), and "**Civil Engineering water pump with grid-connected intelligent solar system for water management**" (Patent No. 419535). Additionally, my earlier patent, "**Multiple Collar Plates: A Composite Scour Protection Device**" (Patent No. 199932), granted in 2006, highlights my enduring commitment to advancing scour protection technology.

### **National/ International Awards**

Notably, I have received the **Jal Vigyan Puskar** for the Best Research Paper in the Tylor and Francis, Journal of Hydraulic Engineering from the Indian Society for Hydraulics at NIT Warangal in 2023. My research work has been further recognized by the Indian Society for Hydraulics felicitated with **two times G.M. Nawathe awards** for the Best Research Paper at CWPRS Pune in **2016 and 2005**. I was bestowed with the **Young Engineer Award** by the Institution of Engineers (India) in 2008 and awarded as a **Young Researcher** in Lisbon, Portugal in 2006.

### **International Visits for Academic Purposes**

My research has taken me to seven countries, including Iran, **Portugal**, Bangladesh, **Turkey**, Dubai, **Mauritius** and **Taiwan**.

### **Book & Research Papers Publication**

I have authored **48 research papers** in Journals/Book Chapters/Conferences and contributed significantly to academia by publishing the **book "Development of Water Resources in India"** as part of Springer book series of Water Science and Technology Library, Volume 75, Series ISSN 0921-092X, Hard Cover ISBN 978-3-319-55124-1.

### **Research & Consultancy Projects**

In addition to my academic contributions, I have handled **two research projects**, including one as a co-principal investigator with IIT Roorkee, **focusing on the Impact of Climate Change on Rainfall Variability, Runoff Mechanism, and Urban Floods in Dehradun, Uttarakhand**, with a **grant of Rs 63.16 Lakh**. I also managed a research project of **Rs 10 lakhs under MODROB scheme** sanctioned by **AICTE in 2007-09**. Beyond academia, I have completed **consultancy work valued at more than 25 Lacs Rupees** in the **last two years**, encompassing structural audits, **3rd party inspections of legacy waste**, and the **proof-checking of water supply** system and **sprinkler irrigation** systems.

### **Conference/Induction Training Program organized**

My commitment to knowledge dissemination is reflected in my role as the **Organizing Secretary of HYDRO 2022**, an International Conference held at PEC University, Chandigarh. Additionally, I organized a **five-day Faculty Development Program on Project Management** in the Construction Industry sponsored by **AICTE through ATAL** in July 2021.

My previous roles as the organizer of national conferences, such as the **National Conference on Water Resources and Hydropower in 2016** and the **Second National Conference on River Hydraulics in 2012**, underline my dedication to fostering academic exchange. I had organized as a Co-Chairman **National Conference on HYDRO- 2010** in association with IAHR, Indian Society for Hydraulics (ISH, Pune), DST, CSIR, MoES & NABARD **on 16<sup>th</sup> to 18<sup>th</sup> December, 2010** at M M University, Mullana. **National Specialty Conference on River Hydraulics** in association with ISH, on **29-30 Oct 2009**.

### **Institute- Industry Relationship**

Since 2016, I have diligently arranged industrial internships for all students, facilitating invaluable real-world experiences lasting **six months during their final year and six weeks** for third-year students. I remain dedicated to furthering my contributions to the field of Civil Engineering, bridging the gap between academia and industry. Signed MoU with **Larsen and Toubro (L&T) ECC Chennai** during my job at University of Petroleum and Energy Studies in year 2016.

### **Membership of Professional Societies**

I am **fellow member** of various esteemed societies, including **IEI, ISH, IWRS**, and the Institute of Valuers. I am life member of ISTE and also **Executive committee member** of ISH since 2018 to till date.

### **Administrative Experience**

My commitment extends beyond academia, encompassing a diverse array of administrative roles throughout my 25-year career. **I am working as an expert of NBA**. I have served as the **Head of the Department, Director of Training & Placement, Coordinator of Infrastructure**, and contributed as a member of NAAC university committee, IQAC, and Purchase Committee. These experiences have provided me with a comprehensive understanding of the various facets of educational administration and institutional development, further enriching my professional journey.

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