

NAME: **DR. UDAI PRATAP SINGH**
PRESENT POSITION: Professor and Head
NATIONALITY: Indian
DATE OF BIRTH: July 2, 1962
ADDRESS: Department of Chemistry
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ACADEMIC PARTICULARS:

Examining Body	Examination	Year	Division	Subjects
B. H. U.	B.Sc.	1982	I	Botany, Zoology & Chemistry
B. H. U.	M.Sc.	1984	I	Chemistry (INORGANIC)
B. H. U.	Ph. D.	1988		Coordination Chemistry

PRESENT SCALE OF PAY: Column 15 (HAG Scale)

EXPERIENCE (TEACHING, RESEARCH & ADMINISTRATION):

Head, Chemistry Department at Present IIT Roorkee
Member, Finance Committee January 2022- Till date IIT Roorkee
Member, BoG, IIT Roorkee January 2022 – Till date

Member, BoG, IIT Delhi	March 2019 - Till date	
Dean, Finance & Planning	May 2016 - July 2019	IIT Roorkee
Dean of Students Welfare	Acting for Two Months	IIT Roorkee
Dean, Administration	Sep. 2012 – April 2016	IIT Roorkee
Chairman, JEE (Joint Entrance Examination)	2010, 2011, 2012	IIT Roorkee
Vice-Chairman, JEE	2009	IIT Roorkee
Chief-Warden (KIH) (Khosla International House)	2006-2010	IIT Roorkee
Warden (KIH)	2005-2005	IIT Roorkee
Sport Advisor (Football)	2002-2006	IIT Roorkee
Professor	2008-to date	IIT Roorkee
Associate Professor	2004-2008	IIT Roorkee
Assistant Professor	1996-2004	IIT Roorkee/University of Roorkee

PRIZES/MEDALS/AWARDS/HONOURS:

- [1] Member BoG, IIT Roorkee
- [2] Member BoG, IIT Delhi
- [3] Star-Performers, IIT Roorkee
- [4] Alexander von Humboldt Fellowship, Germany
- [5] JSPS Visiting Scientists, Japan (two times)
- [6] STA fellow (Science and Technology Agency fellowship), Japan
- [7] UNESCO Research Fellowship, Japan.
- [8] Recipient of I. S. C. A. Young Scientist Award, 1991.
- [9] Recipient of Dr. B. C. Haldar Memorial Award, 1987.

NUMBER OF PROJECT (R&D): 12

MEMBERSHIP OF PROFESSIONAL BODIES: 4

NUMBER OF Ph. D. GUIDED: 23

NUMBER OF M.Sc./M. Tech./M.Phil GUIDED: 42/7

NUMBER OF PUBLISHED PAPER: 247

Projects/Awards/Honors

Completed:

1. Synthesis of Optically active Polypyrazolylborate Ligands for Enantioselective Cyclopropanation reaction, DST, New Delhi (under young scientists scheme).
2. Binuclear Manganese Complexes as Model for the Manganese-containing Ribonucleotide Reductase Enzymes, CSIR, New Delhi.
3. Synthesis of Model compounds for Zinc-containing Enzymes, UGC, New Delhi.
4. Fixation of Atmospheric Carbon dioxide by Mononuclear Hydroxo Complexes of Divalent Metals, AICTE, New Delhi.
5. Metal-Nucleic acid Base Pair Interaction – Solution and Antitumor Studies, UGC, New Delhi.
6. Dioxygen Complexes of Manganese and Cobalt: Synthesis, Molecular Structure and Reactivity Studies, CSIR, New Delhi.
7. Synthesis, Characterization and Reactivity Studies of Vanadium and Manganese Nitrido Complexes, DST, New Delhi.
8. Synthesis and Characterization of Some Complexes as MRI (Magnetic Resonance Imaging) Contrast agents, MHRD, Govt. of India, New Delhi.
9. Zn(II) and Cd(II) Hydroxo Complexes with Tris(pyrazolyl)borate (N3) and Tris(thioimidazolyl)borate (S3) ligands for Ester Hydrolysis, CSIR, New Delhi.

In hands:

1. Organic and Metal-Organic framework using Anthracene based Azoles for selective adsorption of gases and catalysis, CSIR, New Delhi.
2. Development of Silica based Mesoporous Materials for Catalysis and Adsorption, BRNS, Mumbai.

Awards/Honors

1. Dr. B. C. Haldar Memorial Award, 1987.
2. Receptient of Indian Science Congress Association Young Scientist Award, 1991.
3. Life Member: Indian Science Congress Association.

4. Life Member: Chemical Research Society of India.
5. Member: Society for Biological Inorganic Chemistry, USA
6. Life Member: Indian Council of Chemists

Courses Taught

⌚ CY-101 Chemistry, CY-741, Analysis of Foods and Drugs, CY-752, Environmental Chemistry, CY-621, Inorganic Chemistry - I

Some recently solved interesting X-ray structure from our group are –







