

**Dr. TRIPTI GANGWAR**

triptigangwar312@gmail.com

<https://www.researchgate.net/profile/Tripti-Gangwar-2>

<https://scholar.google.co.in/citations?hl=en&user=Eslr4H0AAAAJ>

<https://orcid.org/0009-0009-3158-2238>



**Present Position:** Professor, Department of Chemistry & Professor incharge, Postgraduate Department of Environmental Sciences

Socio Scientific Project Coordinator: Centre of Fluorosis, A.N. College, Patna, India, Integrated Fluorosis Mitigation (IFM) programme in Fluorosis Endemic Selected Villages of Nalanda District, Bihar sponsored by UNICEF in collaboration with NEERI-CSIR, ICMR-NIRTH (2017-till date)

Position Held in Past: Head, Department of Chemistry (November 2019 to November 2022), Professor-in-Charge, P.G. Department of Environmental Sciences (March 2020 to March 2023), Boring Road, Patna 800013, India

Sex: Female

Date of Birth: 21/12/1967

Nationality: Indian

**Work Experience:**

1. Assistant Professor, Dept. Of Chemistry, S.S. College, Jehanabad (Magadh University), Bodh Gaya, India, Teaching: Postgraduate and Graduate level, 18-11-1996 – 24-02-1988
2. Assistant Professor, Dept. Of Chemistry, A.N. College, Patna, (Magadh University), Bodh Gaya, India, Teaching: Postgraduate and Graduate level, 24-02-1996 – 18-12-2000
3. Assistant Professor (Senior Scale), Dept. of Chemistry, A. N. College, Patna (Magadh University), Bodh Gaya, India, Teaching: Postgraduate and Graduate level, 18-12-2000 – 18-12-2005.
4. Associate Professor, Dept. of Chemistry A. N. College (Pataliputra University), Patna, India, Teaching: Postgraduate and Graduate level, 18-12-2005 – 18-12-2016.
5. Professor, Dept. of Chemistry A. N. College (Pataliputra University), Patna, India, Teaching: Postgraduate and Graduate level, 18-12-2016 – till date.

6. Professor incharge, Department of Environmental Sciences, A. N. College, Patna, Patliputra University, Teaching Postgraduate Level, March 2020 to March 2023.

**Academic Resource Person:**

Department of Environmental Sciences, A N College, Patna 800010, India

**Membership of the Professional Bodies:**

1. Life member of Indian science congress association
2. Life member of Indian chemical society
3. Life member Association of chemistry teachers
4. Fellow member of international journal of environmental and chemical research
5. Member of International society of fluoride research.

**Research Interest:**

Synthesis and characterization of organometallic- and metallo-organic compounds, organic synthesis and environmental chemistry, water and soil quality analysis, fluorosis mitigation

**Teaching Interests:**

Organic Reaction Mechanism, Photochemistry and Pericyclic Reactions, Stereochemistry, Chemistry of Natural Products, Spectroscopy, Quantitative and Qualitative analysis, Organic Preparation and Estimation.

**Student education:**

I am a passionate educator and have contributed widely at all levels of undergraduate and postgraduate teaching and learning activities since 1996. In order to deliver my teaching programme effectively and efficiently I have employed different types of electronic media in my teaching and learning methods. My teaching has encompassed areas such as stereochemistry, photochemistry, pericyclic reactions, chemistry of natural products, reaction and reagents, quantitative and qualitative analysis, organic preparation, estimation, chemical analysis.

**Academic Qualification:**

1. Ph.D., Department of Chemistry, Kumaun University, Nainital, U.P., India March (1995)
2. M.Phil., Department of Chemistry, Institute of Basic Sciences, Agra University, Agra, India (1988)
3. M.Sc., Chemistry, St, Johns College, Agra, U.P., India (1987)
4. B.Sc., Chemistry, St. John's College, Agra, U.P., India (1985)

**Research Papers Published:**

1. Assessment of water quality parameters of drinking water in government hospitals in Patna District of Bihar, India, International research journal of engineering and technology, 7(2), 1664-1673, 2024.
2. Positive impact of consumption of fluoride safe potable water together with moringa leaf powder on fluorosis patients of some habitation of Rajauli block, Nawada district, Bihar, J. Chemtrack, 25 (1&2) 163-178, 2023.
3. Karyological study of an endemic anti-fluorosis plant species of Rajauli block of Nawada District of Bihar, J. Chemtracks, 24(1&2), 177-180, 2022.

4. Recycling of organic wasters sugarcane bagasse and polutry wastes through vermicomposting using earthworm species: analysis of micronutrients, Asian J. of chemical and environmental research, 6(3-4), 52-58,2013.
5. Triorganotin (IV) complexes of Schiff bases derived from glycine: synthesis, characteristic spectral studies and antifungal activity, Chemical sc. transaction, 2(2), 389-394,2013.
6. Synthesis of nitrogen mustards of pyridine derivatives, international j. pure and appl. chem.,5(2), 115-121,2009.
7. Selenium (IV) derivatives of N-(o-hydroxy substituted benzyl) alanines, Asian J. chem., 7(1), 109-117, 1995.
8. Tributyl and triphenyl substituted tin derivatives of N-(o-hydroxy substituted benzyl) alanines, Asian J. Chemistry, 7(1),41-49, 1995.
9. Dibutyl and diphenyl substituted tin derivatives of N-(o-hydroxy substituted benzyl) alanines, Asian J. Chemistry, 6(4),968- 976,1994
10. Monobutyl and monophenyl substituted tin derivatives of N-(o-hydroxy substituted benzyl) alanines, Asian J. Chemistry, 6(4), 932- 944,1994.
11. Boron (III), Aluminum (III) and Arsenic (III) derivatives of 1-hydroxy-2- naphthoic acids, Asian J. Chem., 6 (2),313-322,1994.
12. Iron (III) and antimony (III) derivatives of N-(o-hydroxy substituted benzyl) alanines, Asian J. Chem.,6(3), 484, 1994.

#### **Research Scholars Guided for Ph.D. Degree:**

1. Sanju Kumari: Awarded year 2011
2. Aasha Kumari: Awarded year 2017
3. Amit Kumar: Perusing

#### **Study Material/Book Chapters:**

1. Promoting "Sustainable Development in Nations, for their Economic Development with Environment Protection" will only make the World a Safe Place to Live with Happiness for the Society, Book entitled: Protect the Environment or Perish Environmental Education for the Global Human Society to Protect the Environment for survival & Safe Living in World. ISBN: 978-81-19149-42-1.
2. Photochemistry and pericyclic reactions, study course material for M.Sc.(F) for Nalanda Open University, Patna, India.
3. Organic Synthesis, study course material for M.Sc.(F), Nalanda Open University, Patna, India

#### **Innovation in Teaching:**

1. Offer counseling and guidance for postgraduate and undergraduate students and provide internship and placement opportunities through alumni networks.
2. Supervision of Postgraduate and undergraduate students for research projects.
3. Coordinate and conduct Student Development Programmes and Skill Development Programmes.
4. Promote green initiatives by conducting campaigns, lectures and competitions.
5. Coordinate Green Audit of the campus by involving students.
6. Organize department library As Professor in-charge for the benefit of students by mobilizing more than 1000 text books and research journals.
7. Practice microscale experimental techniques.
8. Prepare online study material and practice online teaching
9. Practice Virtual Labs.



