

**Dr. Aditya Puranik**

Assistant Professor, Chemical Engineering

aditya.puranik@gafcuniversity.ac.in

Education

Ph.D. Chemical Sciences – The Maharaja Sayajirao University of Baroda, Gujarat. (2023)

Thesis titled “Design, Synthesis and Tuning of Metallogel Properties and Their Application”

M.Sc. – The Maharaja Sayajirao University of Baroda, Gujarat (2011-2013).

B.Sc. – The Maharaja Sayajirao University of Baroda, Gujarat (2008-2011).

Key Skills

Dr. Aditya Puranik can provide comprehensive solutions to industry and other government bodies in the following areas:

1. Analysis of molecules/complexes using various spectroscopic techniques like FT-IR, UV-Visible spectroscopy and Fluorescence.
2. Has knowledge about synthesis of coordination complexes, catalysis and characterization and synthesis of metallogels.

Background

Joined GSFC University in July 2019.

Scholarship and Accomplishments

Dr. Aditya Puranik has a degree in B.Sc and M.Sc Chemistry from The Maharaja University of Baroda. He is a gold-medalist (M.Sc Chemistry) from The Maharaja Sayajirao University of Baroda. He has completed his Ph.D. degree in Chemistry from The Maharaja Sayajirao University of Baroda for which he was awarded the INSPIRE Fellowship by DST - Government of India. He has an extensive experience of operating different instruments. He has qualified NET-Lecturership examination (2013) and GATE (2016). His research areas of interest include metallogels, coordination chemistry and Catecholase and SoD activity of copper complexes.

Dr. Aditya has a teaching experience of more than 6 years. Previously he has served as a Teaching Assistant at The Maharaja Sayajirao University of Baroda for 1 year. Presently, he is working as an Assistant Professor, Chemistry at GSFC University since July 2019.

He teaches Chemistry to science students at B.Sc., M.Sc. and Ph.D Programs. His area of expertise includes Symmetry and character table, Coordination chemistry and Organometallics. Apart from this he also teaches basic organic chemistry, environmental chemistry and inorganic chemistry to the students of B.Sc Chemistry. He has guided more than 10 dissertation students pursuing M.Sc Chemistry and is currently guiding 2 students for the doctoral degree.

Dr. Aditya Puranik is also a Start-up coordinator of School of Science under GSFC University Innovation Incubation Technology Applied Research Centre (GUITAR) Council. He is also a Deputy Technical Officer in getting the NABL accreditation for GSFC University for "analysis of heavy metals in water samples".

Most Three Notable Publications

1. Aditya Puranik, Priyanka Salunke and Neelima Kulkarni*, Supramolecular Birefringent Metallogels formed by Trinuclear Copper (II) Complexes with Myo-inositol and Bipyridyl Ligands, *New J. Chem.*, 2019, **43**, 14720-14727.
2. Priyanka Salunke, Aditya Puranik and Neelima Kulkarni*, Histamine derived dimer of μ - Chlorido- μ -Phenoxido Dicopper(II) complex as a Potential Enzyme Mimic with Catecholase activity, *Polyhedron*, 2022, **216**, 115700.
3. Varsha Bhardwaj, Priyanka Salunke, Aditya Puranik, Neelima Kulkarni* and Amar Ballabh*, Design and synthesis of novel heterocyclic pivalamide ligands and their copper(II) complexes: Structure, BSA/DNA interactions and SOD synzyme activity, *Polyhedron* ,2022, **225**, 116054.

Invited Lectures

1. Delivered a talk at Faculty of Science, MS University of Baroda, National Work on Problem Solving Techniques in Sciences organized from 25-30th November, 2019.
2. Delivered a talk on the topic-"Analytical Instruments-GC/MS and Supercritical Fluid Process workshop" at GBRC ,Gandhinagar held from 15-17th January, 2020.
3. Delivered a talk in the workshop-"Metabolite extraction and analytical techniques"" at GBRC ,Gandhinagar on 18th November, 2021.
4. Delivered a talk in the workshop-"Informatics in Drug-Resistance"" at GSFC University held from 14-15th November, 2022.
5. Delivered an expert lecture for M.Sc Chemistry students on the topic-" symmetry and Group Theory" at Indrashil Univeristy on 3rd January, 2023.
6. Delivered an expert lecture for M.Sc Chemistry students on the topic-" symmetry and Group Theory" at Indrashil Univeristy on 20th January, 2023.
7. Delivered a talk in the workshop-"KAUSHALYA-Analytical Techniques in Chemistry" in GSFC University, Vadodara.