

Dr. Gita B Narula

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Date of Birth: 24th June 1967

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Designation: Associate Professor, Department of Chemistry, Maitreyi College, New Delhi

Educational Qualification: PhD (Inorganic chemistry)

Title: Synthesis and characterization of transition metal ion complexes of tridentate ligands Bis(2-Benzimidazolyl methyl ether), Bis (2- Benzimidazolyl methyl sulphide) and their N-Butyl derivative.

Career Profile : 1993 - Till date Associate professor, Department of chemistry, Maitreyi College, University of Delhi

M.Sc. (Inorganic Chemistry) : Department of Chemistry, University of Delhi ,Delhi

B.Sc. (Chemistry): Rajdhani college, University of Delhi, Delhi

Awards/Fellowships

- Junior/Senior Research fellowships sponsored by UGC
- Science Meritorious Award
- UGC-Start up Research Grant.

Administrative / Academic assignments

- Synthesis of novel coordination complexes.
- Green synthesis of nanoparticles of silver zinc and copper

Areas of interest / Specialization

- Deputy superintendent
- Member student union advisory committee
- Member E cell
- Member Alumni committee
- In charge of Jagruti recycling unit
- Members, stock verification committee
- Member discipline committee
- Admission committee
- Timetable committee
- Music and dance committee NSS committee PG diploma in nanotechnology under the innovation programme of UGC Maitreyi College,2008-2013

- Paper setter and evaluator in IGNOU in the year 2018
- Coordinator of Jaagruti waste paper recycling services in 2018 till now
- Convenor of Office stock verification committee 2024
- Convenor of Inauguration and decoration committee annual day 2024

Awards and Recognition

- Patent has been granted on UV Disinfectant Box

Workshops/Conferences/Seminars

- Refresher course on Computer Awareness and Application in Chemistry conducted by CPDHE On December 26,1998.
- Refresher course in Chemistry entitled Novel Approaches to Eco friendly Chemistry from June 8-27,1998.
- Refresher course in chemistry by CPDHE from April 3-25,2001.
- Refresher course in chemistry by CPDHE from April 15 to May 7,2002.
- Attended the Convention and presented paper in the “Inorganic Chemistry Section” held from 23rd -27th December, 2004, organized by Indian chemical society, University of Delhi.
- Attended the Seminar on “Chemistry Industry Interface” held from 8th – 9th December, 2005 organized by Atma Ram Sanatan Dharma College, New Delhi.
- Attended the workshop on “Green Chemistry and Joining the Green Chemistry
- Attended workshop by Indo-US S&T Forum training workshop on Green chemistry, held between 7th – 9th January 2008
- Attended the national symposium on “Translational Research in Health Sciences ”held on 24th November 2009 organized by Society of Young Scientist of All India Institute of Medical Sciences, New Delhi.
- Attended the “ICT workshop” from 1st -11th December 2009 organized by Institute lifelong Learning of University of Delhi.
- Attended the workshop on “Quality Assurance through Blended Learning” from 19th-21st January 2010 organized by Maitreyi College, New Delhi.
- Organizer of the workshop on “Upgrading lab Skills in Science” held from 24th – 30th June 2010 organized by Maitreyi College, New Delhi
- Organized Academic Congress in year 2011
- Attended the workshop on “The Natural Farming workshop” held from 12th-15th February, 2020 organized by the “Meraki-The Entrepreneurship Cell” of Maitreyi College, New Delhi.

- Presented the paper in the workshop on “Renewable Energy and environment” held at Mukesh Conference Centre, University of Delhi on 28th -29th January 2011, organized by the Department of Chemistry of Ramjas College, Delhi.
- Attended the session on “Enabling the Young: Redefining Education” organized by the University of Delhi on 6th -7th September, 2012.
- Attended the National symposium and workshop on “Fingerprint Technology” held from 4th-5th February, 2014 organized by Forensic Science Unit of Sri Guru Tegh Bahadur Khalsa College, Delhi.
- Attended the seminar on “Molecular Spectroscopic Techniques” held on 30th March, 2015 organized by the Department of Chemistry of Maitreyi College, New Delhi.
- Resource person for the workshop on “Confluence-2016”- Science fair for school students "held on 21st January, 2016 organized by the Department of Biotechnology of Maitreyi College, New Delhi.
- Organizing committee member for the national conference on “ Nanoscience-Opportunities and Challenges” as an Organizing Committee member, held from 19th-20th February, 2016 organized by the Department of Chemistry of Maitreyi College, New Delhi.
- Attended the national conference on “ Nanoscience-Opportunities and Challenges” held from 19th-20th February, 2016 organized by the Department of Chemistry of Maitreyi College, New Delhi.
- Attended the national symposium and workshop on “Crime Scene Management "held from 3rd-4th March, 2016 organized by Forensic Science Unit of Sri Guru Tegh Bahadur Khalsa College Delhi.
- Presented poster in the national conference on “Environmental Sustainability in waste water Remediation: Current Status and Future Prospects” held from 19th - 20th January, 2017 organized by the Department of Chemistry of Sri Venkateshwara College, Delhi.
- Attended the national conference on “ Interdisciplinary: Prospects & Challenges "held from 5th-7th April, 2017 organized by the Department of Chemistry of Maitreyi College, New Delhi.
- Presented Paper in the International conference on “Advancing Green Chemistry: Building Sustainable Tomorrow” held at University of Delhi from 3rd-4th October, 2017, organized by Green Chemistry Network, Department of Chemistry of Hindu College and University of Delhi.
- Present paper in the national conference on “Innovations in Sciences in Emerging Challenges in Health and Environment (NSHE-2018)” held on 20th March, 2018, organized by the Department of Chemistry of Daulat Ram College.
- **Mentored** two months Summer Internship Programme on “Green Synthesis of Copper Nanoparticles using Plant Extracts for Purification of Water effluent from Laboratories and Textiles Industries” under the Summer Internship Programme of 2018-2019 organized by Maitreyi College New Delhi.
- Attended the national conference on “Biotechnology in Present Era: Impact on Human Life and Environment” held on 23rd August, 2019 organized by Maitreyi College, New Delhi in collaboration with Department of Biotechnology, Govt of India.

- Attended the national seminar on “Assessment & Accreditation of Best Practices in Higher Education Institution under NAAC Framework” held on 5th-6th November,2019 organized by the Internal Quality Assurance Cell of Maitreyi College, New Delhi.
- Best Team Nutrition recognition in the event “Master Chef Maitreyi ”organized by the “Meraki-The Entrepreneurship Cell” of Maitreyi College, New Delhi on 5th February, 2020.
- **Mentored** the two months project on “Polymeric Smart Nuribots for Sustainable aquaponics Agriculture” from 25th April, 2020 - 24th June, 2020 under the Summer Internship Programme (2020-2021) organized by Maitreyi College New Delhi.
- Attended the national webinar on “Immunity through Nutrition” held on 22nd May,2020 organized by the Department of Commerce and Health & hygiene committee of Maitreyi College, New Delhi.
- **Mentored** the two months project on “Bringing Lab to Our Home: Bio-enzyme and its Multiutility in Everyday Life” from 25th May - 25th July 2020 under the Summer Internship Programme (2019-2020) organized by Maitreyi College New Delhi.
- **Mentored** the two months project on “Computational Study of Homochirality and Heterochirality and Drug Interactions with SARS Cov-2 in Biological System” from 25th May,2020 - 25th July, 2020 under the Summer Internship Programme (2019-2020) organized by Maitreyi College New Delhi.
- Attended 4 week Faculty Training Programme on “Google Applications” from 16th July to 14th August, 2020 organized by Department of Computer Science Maitreyi College, New Delhi.
- Attended the webinar on “Online Teaching-Learning & Eye Care” held on 6th September, 2020 organized by the Maitreyi College, New Delhi.
- Co-convenor for Online International workshop on “Public Health, Wellness and Well Being” held from 12th - 13th July, 2021 organized by Maitreyi Alumni Association of Maitreyi College, New Delhi.
- Advisory committee member in the International Conference on “Recent Trends in Drug Discovery and Development” held from 8th -9th October, 2021 organized by Department of Chemistry of Maitreyi College New Delhi.
- Resource person, organizing committee member in the “One Week Inter-Disciplinary Training Programme for Laboratory Staff” as Member, Organizing committee and Resource Person, held from 23rd - 29th August, 2022 organized by the Internal Quality Assurance Cell of Maitreyi College ,New Delhi.
- Presented a paper on “Fabricated Natural Hydrogels and Their Potential for Agricultural Applications” in the International Conference on “The Expanding Frontier of Knowledge” held on 11th -13th August, 2022 organized by The Centre of Research Maitreyi College, New Delhi.
- Organizing committee member in the International workshop on “Essential Oils-101” held from 17th April, 2023 organized by the Maitreyi Alumni Association of Maitreyi College, New Delhi.

- Attended the webinar on “Fermentation: Interplay of Microbes Immunity and Nutrition ” held on 3rd-4th February, 2023 organized by the Department of Rural Development and Agricultural Production of North Eastern Hill University (NEHU), Meghalaya, in association with Biotechnology Industry Research Assistance Council, A Govt. of India Enterprise.
- Attended the workshop on “E-Filing of Income Tax” held from 28th July, 2023 organized by the Department of Economics of Maitreyi College, New Delhi
- Refresher course (interdisciplinary science) 06th April to 30th April 2024, skill development in forensic science & forensic chemistry

List of Publications

1. Tetrahedrally Distorted Tetragonal copper complex tridentate Ligand Inorganic Chemistry 1992, 31, 1575-1580
2. Synthesis and Characterization of Fe(III) complexes and Tridentate ligands Polyhedron 1993, 12, 2635-2643
3. ¹H & ¹³C magnetic resonance investigation of Nickel Complexes of Bis-Benzimidazolyl ligands, Polyhedron 1994, 13, 3219-3228
4. Mononuclear & Binuclear manganese complexes with Tridentate ligands Trans. Met. Chem. 1994, 19, 160-164
5. Dagar, S., Shah, I., Kumari, K., Pal, K., Batra Narula, G., & Soni, K. Green Synthesis of Copper Nanoparticles Designed from *Ocimum sanctum* for Purification of Waste Water. Vantage: Journal of Thematic Analysis, 2020, 1(1), 32-40. <https://doi.org/10.52253/vjta.2020.v01i01.04>
6. Soni, K., Narula, G. B., & Sharma, S. Computational Study of Homochirality and Heterochirality and Drug Interactions with SARS COV-2 in Biological System. International Research Journal of Engineering and Technology 2021, 2119-2128
7. Sethi, S. K., Soni, K., Dhingra, N., & Narula, G. B. “Bringing Lab to Our Home: Bio-Enzyme and its Multiutility in Everyday Life, International Research Journal of Engineering and Technology 2021, 1461-1476
8. Biosynthesis and Characterization of silver nanoparticles as sustainable materials for remediation of contaminated water samples” Gita Batra Narula¹, Kiran Soni², Bagmita Biswas³, Swarndeeep Kaur Sethi*. International Journal of Advances in Engineering and Management (IJAEM) Volume-5, Issue 8 Aug 2023, pp: 667-674 www.ijaem.net ISSN: 2395-5252