




DEPARTMENT OF CHEMISTRY
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	Professor	First Name	KALPA	Last Name	MANDAL	Photograph
Designation	Professor					
Address	FLAT NO. 701, SUN TOWER D-1 BLOCK SHIPRA SUN CITY, INDRAPURAM GHAZIABAD, 201014					
Phone No Office	01124367819, 01124365948					
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Educational Qualifications						
Degree	Institution				Year	
BSc	KAMLA NEHRU COLLEGE FOR WOMEN, JODHPUR (RAJ)				1989	
MSc	JAI NARAYAN VYAS UNIVERSITY, JODHPUR (RAJ)				1991	
PhD	JAI NARAYAN VYAS UNIVERSITY, JODHPUR (RAJ)				1995	
Career Profile						
<ul style="list-style-type: none">• Professor in Chemistry, (Present) Dyal Singh College, DU.• Associate Professor in Chemistry, Dyal Singh College, DU.• Assistant Professor in Chemistry, Dyal Singh College, (Permanent Faculty) DU• Assistant Professor , Rajdhani College, DU (Adhoc)• Assistant Professor , Miranda House, DU (Temporary)• Assistant Professor (Permanent Faculty), Maharani Sudarshan College for Women, Bikaner, Rajasthan.						
Administrative Assignments (From 1st July 2019 onwards)						
2023-24 <ul style="list-style-type: none">• Convenor Women Advisory Committee• Member of Quiz Committee• Member of Extended IQAC Member, Internship & Apprenticeship cell• Member of Science Fair Organising Committee• Member of Election Committee• Anchor of the Annual Cultural Festival• Member of Lab Development Committee• Convenor of Alumni Association of Chemistry Department• Convenor of Paper setting Committee for 1Sem (H) (Old course)• Member of Mentor Mentee Committee• Paper Setting and External & Internal examiner for conducting practical exams						
2022-23 <ul style="list-style-type: none">• Convenor Women Advisory Committee• Convenor of Alumni Association of Chemistry Department						

- Anchoring of NAAC Exit Programme
- Anchoring of Annual Prize Distribution programme
- Member of Screening Committee of Computer department
- Member of Lab Development committee
- Mentor-Mentee Committee

2021-2022

- Member of Alumni Association Committee
- Member of Lab Development Committee
- Mentor-Mentee Committee
- Convenor of Paper setting Committee for 3 Sem (H) UPC 31721307
- Member of the paper setting committee for GE 1 Sem UPC 32175913
- Convenor of Paper setting Committee for 4 Sem (Prog) UPC 42174404_OC

2020-2021

- Member of Lab Development committee
- Mentor-Mentee Committee
- Convenor of Paper setting Committee for 4 Sem (Prog) UPC 42174404_OC
- Member of the committee to scrutinize PBAS applications of the Political Science Department

2019-2020

- Member of Lab Development committee
- Mentor-Mentee Committee

Areas of Interest / Specialization

Inorganic Chemistry
Chelating Resins
Effluent treatment

Subjects Taught

- s & p block elements
- Transition Elements
- Lanthanoids & Actinoids
- Inorganic Polymers
- Principals of gravimetry
- Inorganic Qualitative and Quantitative Analysis
- Practical of all semesters of Honors courses
- Practical of all semesters of program courses

Research Guidance

Publications Profile (From 1st July 2019 onwards)

1. **Title of paper** : Sequestration of Toxic Metal Ions from Industrial Effluent Using the Novel Chelating Resin Tamarind Triazine Amino Propanoic Acid (TTAPA)
Authors : Kalpa Mandal, May Abdullah Abomuti , Sami A. Al-Harbi , Sarika Tejasvi , Sangeun Park ,Madhu Bala Raigar, and Seungdae Oh.
Journal : Water (MDPI), 2023.
2. **Title of paper** : Deterioration of water and soil quality along Yamuna riverbed in the national capital region.
Author: Madhu bala Raigar, Ankur, Charu Chandra, Indraj Kumawat , KP Singh and **Kalpa Mandal***.
Journal: Annals of Forest Research.
3. **Title**: A novel ion exchange resin as an alternative for conventional chelates for separation and removal of toxic metal ions from industrial wastewater
Authors : Madhu Bala Raigar, Sarika Tejasvi, **Kalpa Mandal***.
Journal : Research journal of chemistry and environment.
4. **Title of paper** : Correlation of anthropogenic activities with soil characteristics.
Authors : Sangeeta Singh, Sangeeta Loonker and **Kalpa Mandal***
Journal : Advances in Bioresearch
5. **Title of paper**: Clinical status of potential drugs used for COVID-19 treatment and recent advances in new therapeutics - A review
Authors: **Kalpa Mandal***, Meenakshi Singh, Charu Chandra and Indraj kumar Kumawat.
Journal: Chemical Biology Letters.
6. **Title of Paper**: Degradation of carcinogenic dyes from effluents of dyeing industries using copper nanoparticles.
Authors: **Kalpa Mandal**, Devraj Singh, Gaurav Srivastav, and Alka Gupta*
Journal- International Journal of Scientific and research publications
7. **Title of paper**: Effect of soil pollutant interactions on landfill sites of Delhi NCR region-A case Study.
Authors: **Kalpa Mandal***, Sameer Vyas, Indraj Kumawat, Charu Chandra
Journal: Research Expo International Multidisciplinary Research Journal.

Books :

1. Chapter in book titled **Medicinal Plants**. ISBN: 978-81-8030-474-3
2. Laboratory Manual of Inorganic and Organic Chemistry (Qualitative Analysis). Manakin Press .
3. CHEMISTRY - Inorganic and organic (volume VI), Manakin Press (2019)

Conference Organizations/ Presentations (From 1st July 2019 onwards)

Awards and Distinctions (From 1st July 2019 onwards)

2023-24

1. FDP on “NEP Orientation” Organized by PMMTT-SRCC from 20th to 30 May 2024

2022-23

1. **FDP on “safer and greener chemistry labs”**. Organized by GAD-TLC from 19th July-25th July 2022
2. New PQDT Global & Citation Connection: Ideating Your Literature Review with New Insight, Organized by University of Delhi in Collaboration with ProQuest, Part of

Clarivate on 14th July 2022

3. Webinar on “Managing references made easy using Mendeley” organized by Research Academy Elsevier, DU on 5th Aug 2022
4. Workshop on computational methods and molecular modelling, Organized by Department of Chemistry DU, from 2-3rd sept 2022
5. International Webinar on “Future of teaching learning”, Organized by NPTC group of colleges, UK in collaboration with GAD TLC, SGTB, khalsa college, DU, on 29th Nov 2022
6. Webinar on “Author Workshop -Understanding research metrics & How to find relevant journals to publish in.” Organized by Research Academy on Campus (Elsevier) on 26 dec 2022
7. Webinar on “How to become an effective author” Organised by Rasayaniki, the chemical society of ramjas college, DU on 6th April 2023.
8. Webinar on “Protecting innovations with intellectual property rights” Organised by Rasayaniki, the chemical society of ramjas college, DU on 25th April 2023.

2021-2022

1. Two-Day online National Workshop on “**Open-Source Tools for chemistry**”, 12-13 July 2021, Organised by IQAC Rajdhani college, in collaboration with PMMMNMTT, Ramanujan, College, DU.
2. Two weeks online FDP on “**Chemistry: The catalyst for change**”, 14-28 July 2021, Organized by Miranda College, in collaboration with PMMMNMTT Ramanujan
3. Three-day lecture series on **NEP 2020: Delhi University undergraduate curriculum framework**, 27-29 Jan 2022, Organised by ILL, university of Delhi, in collaboration with Mahatma Hansraj faculty development center, Hans Raj College, University of Delhi.
4. Webinar on “**Understanding plagiarism Detection Software Original**” organized by the University of Delhi in association with I galactic Pune on 28th January 2022.
5. Webinar on “**Accelerate your research using Elsevier’s Scopus**”, On 11 February 2022 by the University of Delhi.
6. Webinar on “**Gardening -- Unearthing Creativity and Passion**” organized by garden committee Dyal Singh college, on 12th February 2022.
7. Webinar on “**Empowering knowledge on ethical publishing: Mastering the art of identifying predatory, fake and cloned journals**” On 8 June 2022.
8. National webinar on “**Experiential Learning as Envisaged in NEP-2020**” organized by GAD TLC, SGTB, Khalsa College, and the University of Delhi on 19th June 2022.

2020-2021

1. Two days workshop (24,25 July 2020) on “Online Teaching-Learning using LMS MOODLE”, Organised by GAD-TLC, Khalsa College, DU.
2. 15 Days FDP on “Managing online classes and Co-creating MOOCS:3.0”, 26 July-10 Aug 2020, Organized by Ramanujan, PMMMNMTT
3. 12 Days FDP (22 Jan -2 Feb 2021) on Digital Tools for 21st Century: Word Processing and Spreadsheets, Organised by GAD-TLC, Khalsa College, DU. 1. Two-Day online National Workshop on “**Open-Source Tools for chemistry**”

2019-2020

1. **Online refresher course in Chemistry for higher education**, 1 Sept 2019 to 16 Feb 2020, Organized by GAD-TLC, Khalsa College, DU.
2. One Week FDP on **“Multimedia enriched e-content development”**, 21-26 May 2020, Organized by GAD-TLC, Khalsa College, DU.
3. Two weeks FDP on **“Managing online classes and Co-creating MOOCs:2.0”**, 18 May-3 June 2020, Organized by TLC Ramanujan College.
4. One-week FDP on **“Open-source tools for research”**, 8-14 June 2020, organized by TLC Ramanujan College,
5. One-week Faculty Development Program on **“Spectroscopic and Analytical Techniques: Applications**, 25-29 May 2020, Organized by J.C.Bose University of Science and Technology in collaboration with GAD-TLC, Khalsa College, DU.
6. National Webinar on **“ICT Enabled Higher Education in India: Challenges and opportunities”**, April 13, 2020, Organized by GAD-TLC, Khalsa College, DU.
7. National Webinar on **“Towards Excellence in Higher Education in India in the 21st Century: Challenges and Opportunities”**, May 1, 2020, Organized by GAD-TLC, Khalsa College, DU.
8. National Webinar on **“Challenges and Opportunities before Indian Higher education due to Covid-19”**, May 2, 2020, Organized by GAD-TLC, Khalsa College, DU.
9. **“Chemdraw Online Workshop for Skill Development and Career Advancement”**, May 5, 2020, Organized by Genesis of Education Impressions, Roorkee, Uttarakhand.
10. International Webinar (Under the Aegis of IQAC) on **“Psychological Well-Being and Covid-19: An Internal Journey”**, 7 May 2020, Organized by Women Development Cell, Shivaji College, DU
11. Webinar on Molecular Visualisation Series on **“Learning Chemistry through ODYSSEY & Spartan Software**, 9 May 2020, Organized by Janta Vedic College, Baraut.
12. Webinar (Under the Aegis of IQAC) on **“Mind Matters: Coping with Stress”**, May 11, 2020, Organised by Shivaji College, DU.
13. Webinar on **“Constructive Living and Education in the times of Corona Crisis”**, 13 May 2020, Organized by Shivaji College, DU.
14. Webinar on **“Revisiting Marketing in Covid-19 Era”**, May 14, 2020, Dyal Singh College, DU
15. National Webinar on **“Research Publication: Skills, Ethics and Misconducts”**, 15 May 2020, Organised by Kumaraguru College of Technology, Coimbatore.
16. Webinar on **“Higher Education in India: Pandemic Paradigms”**, May 20, 2020, Organized by TERI School of Advanced Studies, TERI.
17. **“Faculty Development Workshop on E-Learning”**, 20 May 2020, Organized by H.R. College of Commerce and Economics.

Association With Professional Bodies

1. **Lifetime membership of ISAS : LMT-2012/19**
2. **Lifetime membership of SMC : 97**

Other Activities like MOOCs/ Patents etc. (From 1st July 2019 onwards)

Signature of Faculty Member