




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



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|--|--|------------|---------------------|-----------|--------------|---|
| Title | Capt. (Dr.) | First Name | Keshav Kumar | Last Name | Saini |  |
| Designation | Associate Professor | | | | | |
| Address | Dyal Singh College, Lodhi Road New Delhi-110003 | | | | | |
| Phone No Office | | | | | | |
| Residence | | | | | | |
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| Email | keshavkumarsaini@dsc.du.ac.in | | | | | |
| Link to Web-Page or Resume | | | | | | |
| Educational Qualifications | | | | | | |
| Degree | Institution | | | | Year | |
| B Sc (H) Chemistry | University of Rajasthan | | | | 2003 | |
| M Sc Chemistry | University of Rajasthan | | | | 2006 | |
| PhD. | University of Delhi | | | | 2024 | |
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| Career Profile | | | | | | |
| Associate Professor, Department of Chemistry Associate NCC officer, Army Boys Wing | | | | | | |
| Administrative Assignments (From 1st July 2021 onwards) | | | | | | |
| 2022-23 Associate NCC Officer, Army Boys Wing Member of the IQAC committee Member of Disaster Management Committee | | | | | | |
| 2023-24 Associate NCC Officer, Army Boys Wing Member of the IQAC committee Member of Disaster Management Committee Member of the VAC NCC syllabus designing Committee Member of B Sc Physical Science and Life Science syllabus designing Committee Member of the college Sports Committee Member of the Lab development committee Member of the Mentor Mentee committee B Sc (P) Phy Science Sec-B Sem-I | | | | | | |
| 2024-25 Associate NCC Officer, Army Boys Wing Member of the IQAC committee Member of Viksit Bharat Committee | | | | | | |

Member of the college Environmental Club committee

Member of the Lab development committee (Lab-II)

Member of the Dept Alumni Committee

Member of the Mentor Mentee committee B Sc (P) Phy Science Sec-B Sem-I

Member of the Value Addition Courses Committee of DU for the effective implementation of the VAC course - NCC – IV

Member of the Organising Committee for the One-Day seminar on the Indian Knowledge System

Member of the Organising Committee member Decoding of Life

Member of the ECA NCC Admission Committee 2024-25, University of Delhi

2025-26

Associate NCC Officer, Army Boys Wing

Member of the IQAC committee

Member of the college Environmental Club committee

Member of the Lab development committee

Member of the ECA NCC Admission Committee 2024-25, University of Delhi

Member of the Green Campus-Clean Campus Drive Committee, 2025-26, University of Delhi

Areas of Interest / Research

Synthetic Bio-organic chemistry,

Subjects Taught

Organic Chemistry

Research Guidance

Publications Profile (including Research Papers, Books and Book Chapters)

List of publications

1. **Keshav Kumar Saini**, Ravindra Kumar Upadhyaya, Diksha Rani, Smaranjot Kaur, Ravi Kant, Sanjay Kumar Dey, and Rakesh Kumara “Multi-functionalized biologically active isatin-tagged dihydropyrimidine derivatives: Green synthesis by the use of recyclable Fe-doped Ce-oxide nanoparticles, computational study and their *ex vivo* cytotoxic activity against breast cancer cells” *RSC Advances* 15, no. 57 (2025): 49584-49599
2. Ravindra Kumar Upadhyay, **Keshav Kumar Saini**, Ravi Kant, Neha Chaudhary, Yogita Tonger, Arun Kumar and Rakesh Kumar “Design and synthesis of novel spirocyclic

oxindole based hybrid scaffolds: in silico docking approach towards therapeutic target exploration" *RSC Advances* 15, no. 53 (2025): 45619-45627.

3. **Keshav Kumar Saini**, Yogender Singh, Vandana Saini and Ravi Kant "From Bench to Bedside: Advances in the Synthesis of Dibenzosuberane Derivatives and Enhanced Bioactivity" *Journal of Chemical Health Risks*, 15 no. 4, (2025): 1048-1054
4. **Keshav Kumar Saini**, Vandana Saini, Ravi Kant. "From Principles to Practice: Recent Developments in Greener and Sustainable Organic Synthesis" *Journal of Chemical Health Risks*, 15 no. 3, (2025): 1396-1404.
5. Ram Ji Vishwakarma, Pratibha Singh, Shilpi Khurana, **Keshav Kumar Saini**, Ravi Kant. "Development of Potentiometric Sensors for Selective Determination of Chlorpheniramine (CPA) with Comprehensive Greenness Assessment" *Journal of Chemical Health Risks*, 14 no. 6, (2024): 2848-2859.
6. **Keshav Kumar Saini**, Ravindra Kumar Upadhyay, Ravi Kant, Arpita Vajpayee, Kalpana Jain, Amit Kumar, Lalita S. Kumar, Rakesh Kumar."Design, synthesis, molecular docking and DFT studies on novel melatonin and isatin-based azole derivatives." *RSC advances* 13, no. 39 (2023): 27525-27534.
7. **Keshav Kumar Saini**, Rupal Rani, Muskan, Neena Khanna, Bhupinder Mehta, and Rakesh Kumar. "An Overview of Recent Advances in Hantzsch's Multicomponent Synthesis of 1, 4-Dihydropyridines: A Class of Prominent Calcium Channel Blockers." *Current Organic Chemistry* 27, no. 2 (2023): 119-129.
8. Ravi Kant, **Keshav Kumar Saini**, Ravindra Kumar Upadhyay, Yogender Singh, Y.Veera Manohara Reddy, Shishu Pal Singh, M. Abdul Kareem, K.R. Dasegowda, H. Prabhavati, Rakesh Kumar, Jong Pil Park, and Lalita S. Kumar. "Design, Synthesis, In Silico Screening, and Antiproliferative Activity of Novel 1, 2, 3-Triazole Tethered Dibenzosuberane Conjugates." *Biotechnology and Bioprocess Engineering* 28, no. 5 (2023): 761-773.

9. Ravi Kant, **Keshav Kumar Saini**, Ravindra Kumar Upadhyay, Nasser Amri, Rakesh Kumar, Lalita S. Kumar. "Design, Synthesis and Characterisation of Novel 1H-1,2,3-Triazole Quinoline-Isatin Tethered Conjugates." *Asian Journal of Chemistry* 35, no. 5 (2023): 1269-1275.
10. Ravindra Kumar Upadhyay, **Keshav Kumar Saini**, Nidhi Deswal, Tejveer Singh, Kailash Pati Tripathi, Parshant Kaushik, Najam Akhtar Shakil, Alok Chandra Bharti, and Rakesh Kumar. "Synthesis of benzothiazole-appended bis-triazole-based structural isomers with promising antifungal activity against *Rhizoctonia solani*." *RSC advances* 12, no. 37 (2022): 24412-24426.
11. Ravi Kant, **Keshav Kumar Saini**, Kashinath Triparthi "A novel synthesis of amino acid ester using microwave irradiation" *International Journal of Applied Engineering Research* 4, No. 1 (2022): 229-231.
12. Ravi Kant, **Keshav Kumar Saini**, Vandana Saini "ADVERSE EFFECT OF PESTICIDES ON ENVIRONMENT AND HUMAN HEALTH" *International Journal of applied Engineering research*, 4, No. 2 (2022): 237-243.

Conference Organization/ Presentations (From 1st July 2021 onwards)

1. [2024] Presented paper in the International Conference on Sustainable Practices, Innovations and Emerging Trends in Global Current Scenario on 21st and 22nd December 2024, organised by Vedic Kanya PG Mahavidyalaya, Jaipur, University of Rajasthan
2. [2024] Presented paper in National Conference on "National Education Policy 2020: To Promote Holistic, Multidisciplinary & Technology- Led Digital Education" on 16th and 17th December 2024 organised by Government College Karauli, Rajasthan.

3. **[2024] Presented a paper in the International Conference on Sustainable Development: Current Scenario and Future Directions** on 29th -30th January 2024, organised by the Department of Chemistry, Government College, Karauli, Rajasthan.
4. **[2024] Presented paper in the International Conference Sustainable Development: Current Scenario and Future Directions** on 29th -30th January 2024, organised by the Department of Chemistry, Government College Karauli, Rajasthan.
5. **[2023] Poster presented at the International Chemistry Symposium 2023** on 25th October 2023, organised by the Department of Chemistry, University of Delhi, in collaboration with the Thiem group and the Department of Chemistry, University of Delhi.
6. **[2023] Paper presented** in the International Conference on Multidisciplinary Approaches in Engineering, Science, Agriculture & Social Studies on 3rd and 4th June 2023 held at J. P. Sabhagaar, Khandari Campus, Dr Bhimrao Ambedkar University, Agra, Uttar Pradesh, India.
7. **[2022] Poster presented** in the National Seminar on “**National Conference on Recent Trends in Chemistry and Nano-Biotechnology (RTCN-2022)**” on 13th December 2022, organised by the Department of Chemistry, University of Delhi.
8. **[2022] Poster Presented** in International Seminar **on Current Trends and Futuristic Challenges in Chemical Sciences** on 29th July, 2022, organised by Department of Chemistry, Osmania University, Hyderabad.
9. **[2022] Oral Presentation** in International e-conference on “**Recent Advancements in Chemical Science: Health, Environment and Society (ICRACS- 2022)**” on 8th and 9th

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| April 2022, organised by the Department of Chemistry, Deshbandhu College, University of Delhi. |
| Research Projects (Major Grants/Research Collaboration) (From 1 st July 2021 onwards) |
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| Awards and Distinctions (From 1 st July 2021 onwards) |
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| Association With Professional Bodies |
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| Other Activities like MOOCs/ Patents etc. (From 1 st July 2021 onwards) |
| <p><u>List of patents published in 2024</u></p> <ol style="list-style-type: none"> 1. Biologically active anti-cancer compound and derivative thereof, and green synthesis thereof (Patent Publication Application Number – 202411007373) 2. Triazole based spiro-oxindoles and derivatives thereof and method for synthesis thereof (Patent Publication Application Number – 202411059481). |

Signature of Faculty Member