



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



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

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 Kumar “Multi-functionalized biologically active isatin-tagged dihydropyrimidine derivatives: Green synthesis by the use of recyclable Fe-dopped 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 1<sup>st</sup> July 2021 onwards)

- 1. [2024] Presented paper in the International Conference on Sustainable Practices, Innovations and Emerging Trends in Global Current Scenario** on 21<sup>st</sup> and 22<sup>nd</sup> 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 16<sup>th</sup> and 17<sup>th</sup> 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 13<sup>th</sup> 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 29<sup>th</sup> 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 8<sup>th</sup> and 9<sup>th</sup>

April 2022, organised by the Department of Chemistry, Deshbandhu College, University of Delhi.

**Research Projects (Major Grants/Research Collaboration) (From 1<sup>st</sup> July 2021 onwards)**

**Awards and Distinctions (From 1<sup>st</sup> July 2021 onwards)**

**Association With Professional Bodies**

**Other Activities like MOOCs/ Patents etc. (From 1<sup>st</sup> July 2021 onwards)**

**List of patents published in 2024**

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