

# CURRICULUM VITAE

**Ms. MEGHA SAXENA**

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## CARRIER OBJECTIVE

To be associated with a progressive team that provides an environment to learn and develop my teaching, research and technical skills.

## EDUCATIONAL QUALIFICATION

Degree	Subjects	Institute/University	Year	Aggregate (%)	Division
Ph.D.	Chemistry	University of Delhi	2017-2021	Thesis submitted on 10 <sup>th</sup> Nov 2021	Viva Awaited
B. Ed	Teaching subjects- Chemistry and Science	G. G. S. Indraprastha University	2014	83	First
M. Sc.	Chemistry (Specialization- Inorganic Chemistry)	Ramjas College, University of Delhi	2012	70	First
B.Sc. (H)	Chemistry (H), Physics, Mathematics, English	Acharya Narendra Dev College University of Delhi	2010	78	First

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## PROFESSIONAL EXPERIENCE

- Four years of research experience during Ph.D. in the synthesis and characterization of nanomaterials and their application for removal of organic pollutants from water.
- **Three years teaching experience as *PGT Chemistry* in Sr. Sec. Schools from 2014-2017.**
  - The Cambridge International School from **July 2014-December 2014**.
  - N. P. Girls Sr. Sec. School, Gole Market, New Delhi, (NDMC) from **January 2015-July 2016**.
  - N. P. Co-Ed. Sr. Sec. School, Lodhi Estate, New Delhi (NDMC), from **August 2016-August 2017**.

## AWARDS AND HONOURS

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- **National Eligibility Test (NET)**, Council of Scientific & Industrial Research (CSIR), New Delhi, India, (2015)
  - Qualified **Delhi University Ph.D. Entrance** Exam with **6<sup>th</sup> rank** in 2016
  - Qualified **Central Teacher Eligibility Test (CTET)** in 2015
  - Awarded a Certificate of Merit in B.Sc. (H) Chemistry Part-I for Secured **Second Position** in **University of Delhi South Campus (UDSC)** in 2008.
  - Awarded a Certificate of Merit from **Acharya Narendra Dev College, University of Delhi**, in B.Sc. (H) Chemistry Part-II for Secured **First Position** in the College, 2009.
  - Awarded a Certificate of Merit from **Acharya Narendra Dev College, University of Delhi** in B.Sc. (H) Chemistry Part-III for Secured **First Position** in the College, 2010.
  - **Best Poster Award** at the national conference on “Recent Advances in Chemical Sciences Towards Green & Sustainable Environment: Swachh Bharat Abhiyan Perspective” (10-11th) October **2017**, organized by **Aditi Mahavidyalaya, University of Delhi**.
  - **Second Position** in **Oral presentation** at the ***E-Conference*** on “***Global Water Congress 2020***” organized by ***Environment and Social Development Association (ESDA), Delhi***. 2<sup>nd</sup> - 4<sup>th</sup> October 2020.
  - **Second Position** in **Oral Presentation** in “**ABHIKRIYA**”. The Chemical society of Acharya Narendra Dev College, University of Delhi, SYNERGIA 2009-2010.
  - **Third Position** in **Oral Presentation** in “**SPANDAN**” intercollege competition in 2014 organized by **Awadh Centre of Education, Institute of Vocational Studied, G. G. S. Indraprastha University**.
  - **Secured Position** in **Oral Presentation** in ***First International Online Conference*** on “**Blends, Composites, Bio-Composites, and Nanocomposites (ICNC-2020)**” organized by ***Mahatma Gandhi University, Kottayam, Kerala, India***, for short invited lecture, 9<sup>th</sup>-11<sup>th</sup> October **2020**.
  - Awarded a Certificate of Merit in **Oral presentation** in ***National Seminar*** held in **Kalka Institute for Research and Advanced Studies, Indraprastha University** in 2014.
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## RESEARCH INTEREST AND EXPERIENCE

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- Synthesis and Functionalization of different types of Nanomaterials.
- Experience of various Techniques such as UV-Visible Spectroscopy, FT-IR, SEM, TEM, EDX, TGA, XRD, and VSM used for the Characterization of Nanomaterials.
- Application of synthesized Nanomaterials for removal of organic contaminants from water using adsorption and catalytic reduction methods.

## RESEARCH PUBLICATIONS

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1. **Megha Saxena** and Reena Saxena\*  
Fast and Efficient Single Step Synthesis of Modified Magnetic Nanocatalyst for Catalytic Reduction of 4-Nitrophenol, *Materials Chemistry and Physics*, **2022**, 276, 125437. (Impact factor- 4.0)
2. **Megha Saxena**, Disha Mittal, Richa Boudh, Kapinder Kumar, Anita K. Verma and Reena Saxena\*, “Drug Adsorption and Anti-microbial Activity of Functionalized Multiwalled carbon nanotubes”, *Advances in Nano Research*, **2021**, 11(6), 667-678. (Impact factor- 13.0)
3. **Megha Saxena**, Amit Lochab, and Reena Saxena\*,  
“Asparagine Functionalized MWCNTs for Adsorptive Removal of Hazardous Cationic Dyes: Exploring Kinetics, Isotherm and Mechanism”, *Surfaces and Interfaces*, **2021**, 101187. (Impact factor- 4.8)
4. **Megha Saxena**, Niharika Sharma and Reena Saxena\*,  
“4-aminosalicylic acid Functionalized Multiwalled Carbon Nanotubes for rapid removal of Crystal violet dye from wastewater using minicolumn”, *ChemistrySelect*, **2021**, 6(39), 10601-10608. (Impact factor- 2.1)
5. **Megha Saxena**, Khyati Jain, and Reena Saxena\*,  
“Green Synthesized Nanomaterial-based Colorimetric Sensors for Detection of Environmental Toxicants”, *ChemNanoMat*, **2021**, 7, 392–414. (Impact factor- 3.1)
6. **Megha Saxena**, Niharika Sharma, and Reena Saxena\*  
“Highly Efficient and Rapid Removal of a Toxic Dye: Adsorption Kinetics, Isotherm, and Mechanism Studies on Functionalized Multiwalled Carbon Nanotubes” in *Surfaces and Interfaces*, **2020**, 21, 100639. (Impact factor- 4.8)
7. Reena Saxena\*, **Megha Saxena**, Amit Lochab  
“Recent Progress in Nanomaterials for Adsorptive removal of Organic Contaminants from wastewater” in *ChemistrySelect*, 5(1), 335-353, **2020**. (Impact factor- 2.1)
8. Amit Lochab, **Megha Saxena**, Kajal Jindal, Monika Tomar, Vinay Gupta, Reena Saxena\* “Thiol-functionalized Multiwall Carbon Nanotubes for Electrochemical Sensing of Thallium” in *Materials Chemistry and Physics*, **2021**, 259, 124068. (Impact factor- 4.0)
9. Reena Saxena\*, Kajal Madaan, Saloni Bansal, **Megha Saxena**, Niharika Sharma  
“A Review on Nanomaterials as Solid phase Extractants for Determination of Lead in Environmental Samples” in *IOSR Journal of Applied Chemistry*, 11(9), **2018**. (Impact factor- 3.3)
10. Reena Saxena\*, Amit Lochab, **Megha Saxena**.  
“Magnetite carbon nanomaterials for environmental remediation”, in *Environmental Remediation through Carbon Based Nano Composites*, **Springer Nature**, 26 September, **2020** pp 85-122. (Chapter)

11. **Megha Saxena**, Khyati Jain, and Reena Saxena\*,  
“Role of Nanomaterials in Catalytic Reduction of Organic Pollutants” in *Indian journal of biochemistry and biophysics* (Communicated).
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#### ORAL AND POSTER PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES:

1. **Presented Poster** at the *International conference via virtual platform* on “*Nanomedicine: Biomolecules for Human Health (NBHH 2021)*” organized by **Kirori Mal College, University of Delhi**, 27<sup>th</sup>-28<sup>th</sup> September, **2021**.
2. **Oral Presentation** at the *International Online Conference* on “*Macromolecules (ICM-2020)*” organized by **Mahatma Gandhi University, Kottayam, Kerala, India, and Gdansk University of Technology, Gdansk, Poland**. 13<sup>th</sup>-15<sup>th</sup> November, **2020**.
3. **Oral Presentation** at the *National E-Conference* on “*Global Water Congress 2020*” organized by **Environment and Social Development Association (ESDA), Delhi**. 2<sup>nd</sup> - 4<sup>th</sup> October **2020**. (Secured Second Prize)
4. **Oral Presentation** at the *First International Online Conference* on “*Blends, Composites, Bio-Composites, and Nanocomposites (ICNC-2020)*” organized by **Mahatma Gandhi University, Kottayam, Kerala, India, Siberian Federal University, Russia and Wroclaw University of technology, Wroclaw, Poland**. 9<sup>th</sup>-11<sup>th</sup> October **2020**. (Secured Fifth Prize)
5. **Presented Poster** in *A Virtual, 2<sup>nd</sup> International Symposium* on “*Functional Nanomaterials in Industrial and Clinical Applications: Academy- Industry-Clinician Meet*”, 14<sup>th</sup>-16<sup>th</sup> July, **2020**, Uclan.
6. **Presented Poster** at the *2<sup>nd</sup> National Conference* on “*Emerging Trends and Future Challenges in Chemical Sciences*” organized by Department of Chemistry, **Kirori Mal College**, held at **Conference Centre, University of Delhi**, 10-11<sup>th</sup> January, **2020**.
7. **Presented Poster** at the *International Conference on “Indian Analytical Congress”* organized by **Amity University Noida (Delhi-NCR)**, 12-14<sup>th</sup> December, **2019**.
8. **Oral Presentation** at the *National Conference* on “*Chemistry for Human Health and Environment*” organized by **Green Chemistry Network Centre (GCNC)**, held at **Conference Centre, University of Delhi**. 15-16<sup>th</sup> December **2018**.
9. **Oral Presentation** at the *National Conference* on “*Emerging Trends and Advances in Chemical Sciences*” organized by **St. Stephen’s College, University of Delhi**, 25-26<sup>th</sup> September **2018**.
10. **Presented Poster** at the *National Conference* on “*Recent advances. In: chemical Sciences Towards green & Sustainable Environment: Swachh Bharat Abhiyan Perspective*” (10-11<sup>th</sup>) October **2017**, organized by **Aditi Mahavidyalaya, University of Delhi**. (Awarded Best Poster).

## CONFERENCES/WORKSHOPS/SEMINARS PARTICIPATED

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11. Participated in **Webinar** on “*Innovative Solutions of Chemistry for Better Health Care*” organized by **Department of Chemistry, Kirori Mal College, University of Delhi**, 8<sup>th</sup> Feb **2021**.
12. Participated in **Webinar** on “*Multifunctional Nanomaterials for Advanced Applications in Healthcare*” organized by **Department of Chemistry, Kirori Mal College, University of Delhi**, on 16<sup>th</sup> September **2020**.
13. Participated in **Online** Faculty Development Programme on “*Innovation in Scientific Research Methods*” organized under the aegis of DBT Star College, **Kirori Mal College, University of Delhi**, from 14<sup>th</sup> -18<sup>th</sup> **October, 2020**.
14. Participated in two days Hands on **Online WORKSHOP** on “*Computational Chemistry and Molecular Modelling in Drug Design*” organized by **Department of Chemistry, Kirori Mal College, University of Delhi**, on 19<sup>th</sup> -20<sup>th</sup> **May, 2020**.
15. Participated in one day Hands on **WORKSHOP** on “*Computational Chemistry and Molecular Modelling in Drug Design*” organized by **Department of Chemistry, Kirori Mal College, University of Delhi**, on 29<sup>th</sup> February, **2020**.
16. Participated in **Symposium** on “*Empowering Women in Chemistry: A Global Networking Event*” at **Miranda House, University of Delhi**, 12<sup>th</sup> Feb. **2019**.
17. Participated in **International Conference** on **ACS ON CAMPUS** organized by The American Chemical Society at **Shankarlal Concert Hall, University of Delhi**, 15<sup>th</sup> March **2018**.
18. Participated in one day **WORKSHOP** and Hands-on Experience in “**ADVANCED SPECTROSCOPY**” and “**DYNAMIC LIGHT SCATTERING**” organized by **Department of Zoology, Kirori Mal College, University of Delhi**, on 9<sup>th</sup> October, **2018**.
19. Participated in **International Conference** on “*Advancing Green Chemistry: Building A Sustainable Tomorrow*” jointly organized by Green Chemistry Network Centre, **Department of Chemistry, University of Delhi**, 3-4<sup>th</sup> October **2017**.

## ADDITIONAL SKILLS

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- Computer Skills: Chemdraw, Origin, MS Office (MS word, MS- Excel, MS-DOS, MS-Power Point) and Internet Surfing.
- Good Chemistry Practical Skills.

## PERSONAL DETAILS

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Name:	Ms. Megha Saxena
Father's Name:	Mr. Jagdish Chander
Mother's Name:	Late Manju Saxena
Date of Birth:	November 17, 1989
Nationality:	Indian
Category:	General
Marital Status:	Unmarried

## REFERENCES

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### **Prof. Reena Saxena (Ph.D. Supervisor)**

Department of Chemistry,  
Kirori Mal College,  
University of Delhi,  
Delhi-110007  
E-mail: [rsaxena@kmc.du.ac.in](mailto:rsaxena@kmc.du.ac.in).

### **Dr. Pooja Bhagat**

Associate Professor,  
Department of Chemistry,  
Acharya Narendra Dev College  
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*I hereby confirm that the above-mentioned information is true to the best of my knowledge*



Signature: