




## KIRORI MAL COLLEGE, UNIVERSITY OF DELHI



Title	DR.	First Name	SHALINI	Last Name	NIGAM	Photograph
Designation	ASSOCIATE PROFESSOR					
Address	Department of Chemistry, Kirori Mal College, University of Delhi, Delhi-110007					
Phone No Office	01127667861					
Residence	---					
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Educational Qualifications						
Degree	Institution				Year	
B.Sc.	Hindu College, University of Delhi				1989	
M.Sc. (CHEMISTRY)	Hindu College, University of Delhi				1991	
B.Ed.	Annamalai University				1992	
Ph.D.	University of Delhi				1995	
Career Profile						
<ol style="list-style-type: none"><li>1. Worked as JRF and SRF in Department of Chemistry, University of Delhi.</li><li>2. Worked as lecturer in Department of Chemistry, Kirori Mal College, University of Delhi (Since 1994).</li><li>3. Present Post: Associate Professor in Department of Chemistry, Kirori Mal College, University of Delhi.</li></ol>						
Administrative Assignments						
<ol style="list-style-type: none"><li>1. Worked as teacher -in –charge in Department of Chemistry, Kirori Mal College (2014-2015).</li><li>2. Worked as Superintendent of practical exams various times (recently, 2014-15 and 2020-21)</li><li>3. Initiated and acted as in-charge of NCC Girls' Wing, Kirori Mal College.</li></ol>						
Areas of Interest / Specialization						
POLYMER CHEMISTRY (PHYSICAL CHEMISTRY)						
Subjects Taught						
<ol style="list-style-type: none"><li>1. Quantum Chemistry and Spectroscopy (B.Sc. (H) CHEM, 3<sup>rd</sup> Year) Theory and practical.</li><li>2. Computers and Applications in Chemistry (B.Sc. (H) CHEM, 3<sup>ND</sup> Year) Theory and practical</li><li>3. States Of Matter and Ionic Equilibrium (B.Sc. (H) CHEM, 1<sup>st</sup> Year)</li><li>4. B.Sc. (H) SEMESTER 1 AND SEMESTER2 Practical</li><li>5. B.Sc. (P) Chemistry Classes for 2<sup>nd</sup> and 3<sup>rd</sup> Years and practical</li><li>6. B.Sc. (H) Botany and Zoology subsidiary Chemistry Classes and practical.</li></ol>						
Research Guidance						
N.A						
Publications Profile						
a. Research Paper:						

#### LIST OF RESEARCH PUBLICATIONS IN REPUTED INTERNATIONAL JOURNALS

1. Thermodynamic parameters of some multi component intermacromolecular Complexes in relation to their structure and composition. (Published in *Polymer Bulletin*,30, 75-81(1993).
2. Stability constants and related thermodynamic parameters of some quaternary intermacromolecular complexes involving Polyelectrolytes and non-ionic homopolymers. (Published in *Journal of Polymer Science, Part A : Polymer Chemistry* , Vol.32,1169-1174(1994))
3. Thermodynamic studies on some copolymer-copolymer-homopolymer interactions and formation of intermacromolecular complexes. (Published in *Die Angewandte Makromolekulare Chemie*,Vol. 22, 13-22(1995)(Nr.3773)).
4. Thermodynamic studies of some complexation systems involving Methacrylic acid- Acrylamide copolymer, poly (vinyl Pyrrolidone) and Poly (ethylene oxide). (Published in *Journal of Macromolecular Science- Pure and Applied Chemistry*, A 32(1), 157-167(1995)).
5. A comparative study of thermodynamic parameters of interpolymer complexes of an acrylic copolymer and a polymer blend with a polyelectrolyte. (Published in *Polymer Bulletin*, Vol.35, 489-496(1995)).
6. Phenolic Copolymer- polyelectrolyte- non-ionic homopolymer interactions: Thermodynamic and electrochemical studies in DMF- Water mixtures. (Published in *Macromolecular Chemistry and Physics Vol. 197, 911-920(1996)*).
7. Interpolymer association between Phenolic Copolymers and Polyelectrolytes: Effects of copolymer structure and hydrophobic interactions on stability of Polycomplexes. (Published in *Polymer Bulletin*, Vol. 37, 265- 272 (1996)).

- b. Books N.A
- c. Chapter in books N.A.
- d. Articles/Research Paper in books N.A
- e. Conference Proceedings

#### Conference / Workshops/Training Organized

1. In Organization Committee of, One Day seminar titled "Frontier Technologies In Chemistry, Biological and Horticultural Sciences "(20.12.2012), Organized jointly by ISAS and KMC.
2. In organizing committee of "2nd National conference on EMERGING TRENDS AND FUTURE CHALLENGES IN CHEMICAL SCIENCES(ETFC-2020), January 10 and 11,2020", Department of Chemistry, Kirori Mal College, University of Delhi

#### Creation of ICT Mediated Teaching Learning Pedagogy and Content

N.A.

#### Conference/Workshops/Training attended as Faculty Member

##### (A) LIST OF CONFERENCES / SEMINARS ATTENDED ....

1. Seminar on "Hyphenated Techniques for Chemical Analysis" organized by ISAS and B.R. Ambedkar Centre for Bio – Medical Research, Delhi University, held on 25th April ,1998.
2. Seminar on "National Women Development ", held from 8th to 9th March, 2002.
3. Seminar on "Latest Development & Applications of X-Ray Fluorescence Technique in Petrochemical Industries ", ISAS, Delhi chapter.
4. Seminar on "Quality System Mutual Recognition, Arrangement & WTO IN present Scenario " , ISAS , Delhi chapter .

5. Participated and presented poster in the international Conference on "Chemistry Biology Interface: Synergistic New Frontiers "(CBISNF – 2004), organized by B.R. Ambedkar Centre for Biomedical Research, University of Delhi, held from 21st to 26th November ,2004.
6. Symposium on "Emerging Trends in Chemistry "organized by KMC ON 20th and 21st December 2004
7. Seminar on "Applications of Modern Analytical Technologies in Chemical and Biological Sciences, organized by ISAS and Jamia Hamdard, held on 9th February ,2005.
8. Seminar on "Latest Developments in Production and Characterization of Olefin Polymers ", organized by ISAS, Delhi chapter, held on 17th September, 2005.
9. Symposium on "Emerging Areas in Chemistry " , organized by Hindu College and CSIR held from 1st to 3rd December , 2005
10. Seminar on 'Frontier Technologies in Chemical, Biological and Horticultural Sciences, organized jointly by ISAS and KMC (Department of Chemistry), held on 20th December 2005.
11. International Symposium on "Green/ Sustainable Chemistry "Organized by IUPAC and University of Delhi, held from 1st to 3rd January ,2006.
12. Symposium on "The Applications of Nuclear Magnetic Resonance Material and Medicine "organized by Department of Chemistry, IIT Delhi, held on 21st November, 2006
13. National Workshop on "Role of Analytical Techniques in Industry "organized jointly by ISAS and Department of Chemistry, KMC, held from 21st to 22nd January 2010.
14. Seminar on "Role of Analytical Techniques in Biological & Environmental Sciences organized by ISAS (DC) and KMC, held from 27th to 29th January 2011.
15. National Conference on "Technological Empowerment of Women", organized by The National Academy Of Sciences, March 8,9, 2018.
16. Online Faculty Development Programme on "INNOVATION IN SCIENTIFIC RESEARCH METHODS", October 14-18, 2020, Organized under the aegis of DBT Star College Scheme 2019-2022.

**(B)LIST OF TRAINING COURSES ATTENDED**

**(B.1) Courses organised by Delhi University Computer Centre...**

1. Personal computers and related software. (06.07.1992- 17.07.1992)
2. Lotus 1-2-3. (03.05.93- 07.05.93)
3. Unix Operating Systems. (15.02.93- 01.03.93)
4. Windows -95, MS Word and Power point (30.8.99 – 17.9.99)

**(B.2) Courses organised by CPDHE, Delhi University**

1. Refresher course in Innovations in Small Scale Chemistry from March 7,1994.
2. Computer awareness and Applications in Chemistry, from December 26, 1994. (Equivalent to Refresher course/ Orientation course.)
3. Refresher course in Chemistry (CH – 90), from Nov.15 to Dec. 15, 2000.
4. Refresher course in Chemistry (CH- 91) , from April 03 to 25, 2001.
5. Refresher course in Chemistry, from September 01-20, 2003.

**Invited Lectures/Resource Persons**

N.A.

**Research Projects (Major Grants/Research Collaboration)**

N.A.

**Awards and Distinctions**

1. "Shailaja Sehgal Memorial Scholarship "for Obtaining Highest Marks in M.Sc. (P) Chemistry (Physical Specialization) in 1990, Delhi University.
2. Obtaining Highest Marks in M.Sc. (F) Chemistry (Physical Specialization) in 1991, Delhi University.
3. Obtaining Highest Marks in M.Sc. (F) Chemistry in 1991, Hindu College, Delhi University
4. Best paper in refresher course in chemistry, held at CPDHE, University of Delhi (from 3<sup>rd</sup> to 25<sup>th</sup> April ,2001), entitled "Eco friendly Industrial Applications of Surfactants"

#### Association with Professional Bodies

Life Membership of ISAS – THE INDIAN SOCIETY OF ANALYTICAL SCIENTISTS

#### Other Activities

(A) ACTED AS A MEMBER OF....

1. Admission Committee
2. Women Development Cell
3. Placement Cell
4. Cultural Council (MUSOC & FAPS)
5. Proctorial Committee
6. Development Committee
7. Joint Teacher Student Consultative Committee
8. Chemistry Seminar Committee
9. Garden Committee

(B) INITIATED and acted as in-charge, NCC Girls' Wing in Kirori Mal College.

(C) CONVENER of Canteen Committee

(D) Acted as Convenor and member of Seminar committee, admission committee, of Chemistry department

S.N.

Signature of Faculty Member