




Faculty Details proforma for DU Web-site

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|---|--------------------------------|--|-------------------------|-----------|---------|---|-----------------------------|-------------------------------|--|------------------|----------------------|--------------------------------|--------------------------|-------------------------|----------------------|----------------------------|--|--|----------------------|----------|--|--|-------------------------|--------------|--|--|--|--|--|--|
| Title | Dr. | First Name | SUSHILA | Last Name | SINGHAL | Photograph | | | | | | | | | | | | | | | | | | | | | | | | |
| Designation | | Assistant Professor | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| Address | | 410, Neelgiri Apartment, Kaushambi, Ghaziabad-201010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Residence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mobile | | 09911180988 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email | | sushilasinghal11@gmail.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Web-Page | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Educational Qualifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degree | | Institution | | | Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ph.D. | | University of Delhi | | | 2007 | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.Phil. | | ----- | | | ----- | | | | | | | | | | | | | | | | | | | | | | | | | |
| PG | | M.D.U Rohtak | | | 2003 | | | | | | | | | | | | | | | | | | | | | | | | | |
| UG | | M.D.U Rohtak | | | 2001 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Any other qualification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Career Profile | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Working as Assistant professor in Deshbandhu college from 2003 to till date. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Administrative Assignments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Worked in union advisory committee, canteen, proctoral, garden and financial assistance committees. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Areas of Interest / Specialization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Organic chemistry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subjects Taught: All Mathematical Physics Papers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">1. Organic chemistry</td> <td style="width: 25%;">Biochem (hons.)-I year</td> <td style="width: 25%;">6. Foundation course Science & Life</td> <td style="width: 25%;">DC-II sem</td> </tr> <tr> <td>2. Organic chemistry</td> <td>Chemistry (hons.)-I & III year</td> <td>7. Environmental science</td> <td>Chemistry hons. -I year</td> </tr> <tr> <td>3. Organic chemistry</td> <td>App.Phy. Sci. I & III year</td> <td></td> <td></td> </tr> <tr> <td>4. Organic chemistry</td> <td>DC-I sem</td> <td></td> <td></td> </tr> <tr> <td>5. Industrial chemistry</td> <td>I & III year</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | | | | | 1. Organic chemistry | Biochem (hons.)-I year | 6. Foundation course Science & Life | DC-II sem | 2. Organic chemistry | Chemistry (hons.)-I & III year | 7. Environmental science | Chemistry hons. -I year | 3. Organic chemistry | App.Phy. Sci. I & III year | | | 4. Organic chemistry | DC-I sem | | | 5. Industrial chemistry | I & III year | | | | | | |
| 1. Organic chemistry | Biochem (hons.)-I year | 6. Foundation course Science & Life | DC-II sem | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Organic chemistry | Chemistry (hons.)-I & III year | 7. Environmental science | Chemistry hons. -I year | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Organic chemistry | App.Phy. Sci. I & III year | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Organic chemistry | DC-I sem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. Industrial chemistry | I & III year | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Research Guidance: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

List against each head (If applicable)

1. Supervision of awarded Doctoral Thesis
2. Supervision of Doctoral Thesis, under progress
3. Supervision of awarded M.Phil dissertations
4. Supervision of M.Phil dissertations, under progress

Publications Profile

List against each head (If applicable) (as Illustrated with examples)

1. **Books/Monographs (Authored/Edited): Authored**
 1. Textbook of Chemistry, VI semester-B.Sc. Programme, University of Delhi, University Press.
 2. Gelation of DNA base, Silicon and Polyvinylpyrrolidone, Lambert Publishing House, Germany.
2. **Research papers published in Refereed/Peer Reviewed Journals**
 - a) **Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals**
 1. Man Singh and **Sushila Chauhan**, Preparation, molecular weight determination and structural studies of (polyvinylpyrrolidone)-oximate silico-benzoyl glycine copolymer with IR spectroscopy. **Natural Product Research**, Volume 21, Issue 5, May 2007, pages 426 – 435.
 2. Man Singh and **Sushila Chauhan**, Molecular Weight and Structural Determinations of (polyvinylpyrrolidone)-oximate silico-benzoyl glycine [POSBG] copolymer with IR and NMR spectroscopy. **Journal of Applied polymer Science**. Volume 104, Issue 5, 2006, Pages 3261 – 3268.
 3. Man Singh and **Sushila Chauhan**, Preparation, molecular weight determination and structural studies of (polyvinylpyrrolidone)-oximate silico-benzoyl glycine copolymer with IR spectroscopy at pH 7. **Physics and Chemistry of Liquids**, Volume 45, Issue 4, August 2007, pages 443 – 452.
 4. Sushila Singhal and Shruti Peshoria, Sol-gel synthesis of pvp-oximo-adenyl-siliconate hybrid polymer, its characterization with spectral analysis and application in drug loading. **Prasad Dada Funde Applied Research And Development Institute Journal**, Volume 6, Issue 3, November 2012, Pages 20-33.
 5. Sushila Singhal, Physicochemical and Thermal Characterization of PVP (poly N-vinylpyrrolidone) oxime derivative and application as binder in thin films. **International Journal of Chemtech Applications**, Volume 2, Issue 1, 2013. Molecular-matrix of PVP derivative with alanine and electron rich core silicic acid, their spectroscopic and thermal characterizations with IR and TGA and their antimicrobial activity. **International Journal of Chemtech Applications**, 152-161, volume 2(2) (2013).
 6. Man Singh and **Sushila Singhal**, Physicochemical studies, structural and thermal characterizations with IR and TGA of PVP-oxime silico alanine (POSA). **Journal of Applied polymer Science**. (Communicated).
 7. **Sushila Singhal**, Designing of PVP (poly N-vinylpyrrolidone) oxime derivative and its thermal and spectroscopic characterization with TGA/DTA, IR, H^1 NMR and C^{13} NMR. **Journal of Biophysical and Biochemical Methods**. (Communicated).
 - b) **Research papers published in Refereed/Peer Reviewed Conferences**
 - c) **Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences**
 3. **Other publications (Edited works, Book reviews, Festschrift volumes, etc.)**

Conference Organization/ Presentations (in the last three years)

List against each head (If applicable)

1. **Organization of a Conference:** Organized National Seminar on the topic “**A Relentless Reformer: Revisiting the Legacy of Swami Vivekananda**” at India International Centre, New Delhi on 12

May 2013.

2. Organized National Seminar on the topic "A Tribute to Feroze Gandhi: An Unsung Hero" on 15th December, 2012 at Jawaharlal Nehru National Youth Centre, New Delhi.
3. Organized National Seminar on the topic "Revisiting Rabindra Nath Tagore's Literary works and assessing it's relevance in 21st century" on 19 May, 2012 at India international centre, New Delhi.
4. Organized National Seminar on the topic "Remembering Moti Lal Nehru: In the vanguard of India's struggle for freedom" on 25th March 2012 at NMML, Teen Murti, New Delhi.
5. Organized National Seminar on the topic "Depiction of Indian culture in hindi cinema" on 23rd March, 2014 at Jawaharlal Nehru National Youth Centre, New Delhi.

1. *Participation as Paper/Poster Presenter:*

1. **Sushila Singhal** and Shruti Peshoria, A Green Approach- Synthesis of (polyvinylpyrrolidone)-oximate-silico-adenine molecule, a biocompatible polymer and its characterisation with spectral analysis. Poster presentation in 7th National Symposium and Conference on Solid State Chemistry and Allied Areas organized by and held at Department of Chemistry, Jamia Millia Islamia (Central University), New Delhi 110025, India from November 24-26, 2011.
2. **Sushila Singhal** and Shruti Peshoria, A Green Approach- Designing Biocompatible Polymer from PVP and DNA Bases incorporating Silicon and its Spectroscopic analysis. Oral presentation in XXX Annual Conference of the Indian Council of Chemists held at Department of Chemistry, Osmania University, Hyderabad from 28th-30th December, 2011(oral presentation).
3. **Sushila Singhal** and Shruti Peshoria, 100th Indian Science Congress, Centenary Session of Indian Science Congress, "Science for shaping the future of India" organized by University of Calcutta and The Indian Science Congress Association held at University of Calcutta from January 3-7, 2013, Kolkata, (oral presentation).

Research Projects (Major Grants/Research Collaboration)

(1) UGC, Minor Research Project, (2007-2009), New Delhi.

Project Title: Development and Characterization of copolymer of polylactamide and amino acids grafted with Silicon: Application to biochips and bioelectronics.

(2) UGC, Major Research Project, (2010-2013), New Delhi.

Project Title: Grafting of polylactamide (PVP) and DNA bases with silicon: Application to biophysics, biosensors and development to biotechnology.

(3) University of Delhi, Scheme: Innovation Projects from colleges. May 15, 2012- May 14, 2013.

(4) University of Delhi, Scheme: Innovation Projects from colleges. November 15, 2013- November 14, 2014.

Awards and Distinctions

1. **6th position in University** in M.Sc.

2. **Young Scientist Award by Indian Council of Chemists in 2006 Silver jubilee conference** organized by Birla college of Arts, Science and commerce, Kalyan (Maharashtra).

Association With Professional Bodies

1. *Editing*

2. *Reviewing*

3. *Advisory*

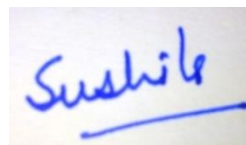
4. *Committees and Boards*

5. *Memberships:*

1. Indian Council of Chemists.
2. Indian Science Congress Association

6. *Office Bearer*

Other Activities



Signature of Faculty Member

- You are also requested to give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.