




Faculty Details proforma for DU Web-site

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cc: director@ducc.du.ac.in)

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|----------------------------|-------------------------------|--|--|---|---------|---|
| Title | Dr. | First Name | Sangeeta | Last Name | Pandita | Photograph |
| Designation | | Associate Professor | | | |  |
| Address | | Chemistry Department, Zakir Husain Delhi College, J.L.Nehru Marg, New Delhi-110 002 | | | | |
| Phone No | Office | 01123233420 | | | | |
| | Residence | 9810149245 | | | | |
| | Mobile | 9810149245 | | | | |
| Email | | sangitapandita1@gmail.com | | | | |
| Web-Page | | | | | | |
| Educational Qualifications | | | | | | |
| Degree | | Institution | | | Year | |
| Ph.D. | | University of Delhi | | | 1985 | |
| M.Phil. | | University of Delhi | | | 1982 | |
| PG | | Banaras Hindu University, Varanasi | | | 1979 | |
| UG | | University of Jammu, J&K | | | 1977 | |
| Career Profile | | | | | | |
| | YEAR | DESIGNATION | COLLEGE/UNIVERSITY | COURSES /PAPERS TAUGHT | | |
| | 1984-85 | Lecturer | Gargi College, University of Delhi | <ul style="list-style-type: none"> • B.Sc. General Course Mechanistic Organic Chemistry, Chemistry of functional groups and Laboratory courses. | | |
| | 1985-2011, 2013-to date | Associate professor | Zakir Husain Delhi College (University of Delhi) | <ul style="list-style-type: none"> • B.Sc.(Honours) Chemistry and B.Sc.Programme Courses. Environmental Chemistry, Chemistry of Natural products, Biochemistry, Polymers, Carbohydrates, Amino acids, Peptides and Proteins, Nucleic acids, UV and IR spectroscopy and Laboratory Courses on Organic Analysis and Synthesis. | | |

| | | | |
|-----------|---|--|--|
| 2011-2013 | Sabbatical at FRI Dehradun, Uttarakhand | Cellulose and Paper Division, FRI Dehradun | <ul style="list-style-type: none"> M.Sc. Paper & Pulp Technology <p>Extractives & Pitch Problems in Pulp & Paper</p> |
| 2012-2013 | --do-- | FRI University Dehradun | <ul style="list-style-type: none"> PG Diploma in Aroma Technology <p>Principles of Aroma Chemistry, Flavours and Fragrances, Biogenetic Pathways in Terpenoids</p> |
| 2013-date | Associate Professor | Zakir Husain Delhi College (University of Delhi) | <ul style="list-style-type: none"> B.Sc.(Honours) Chemistry <p>Chemistry of Natural Products, Medicinal Chemistry, Biochemistry of lipids, amino acids, carbohydrates, proteins and nucleic acids and associated Laboratory Courses</p> |

Administrative Assignments

Teacher Incharge Chemistry Department, Zakir Husain Delhi College, 1994-95; 2008-09

Areas of Interest / Specialization

- Specialization: Organic Chemistry
- Areas of Interest: Innovations in organic chemistry laboratory, Green/ environment friendly methods in chemistry, waste reutilization.

Subjects Taught

| S.No. | Subjects/Topics taught | Level | Institt |
|-------|-----------------------------------|--------------------------|---------|
| 01 | Fundamentals of Organic Chemistry | First Year Undergraduate | ZHDC |
| 02 | Chemistry of natural products | Third year Undergraduate | ZHDC |

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|----|---|--|--|--|
| 03 | Biochemistry | Third Year Undergraduate | ZHDC | |
| 04 | Environmental Chemistry | First Year Undergraduate | ZHDC | |
| 05 | Principles of Aroma Chemistry, Flavours and Fragrances, biogenetic pathways in terpenoids | Post Graduate Diploma in Aroma chemistry | FRI University, Dehradun | |
| 06 | Extractives and Pitch Problems in Paper and Pulp | M.Sc. Paper and Pulp Technology | Cellulose and Paper Division, FRI Dehradun | |

Research Guidance

| S.No. | Student | Institute/College | Topic | Level |
|-------|---------------------------------|-------------------|---|--------|
| 01 | Ashok Kumar | IIT Delhi | Phase Transfer Catalysis | M.Tech |
| 02 | Saral Baweja | ZHD College | Carbohydrate Analysis Using Alkaline Potassium Ferricyanide | B.Sc |
| 03 | Manisha Chawla and Monika Rawat | ZHD College | Nitration of Acetanilides using urea nitrate as a new nitrating agent | B.Sc. |
| 04 | Neha Kardam Vaibhav Pal Singh | ZHD College | Safe bromination of acetanilides | B.Sc. |
| 05 | Aparna Wadhwa & Sandhya Verma | ZHD College | Isolation and characterization of nicotine from tobacco | B.Sc. |

Publications Profile

1. Carbohydrate Analysis Using Alkaline Potassium Ferricyanide
Resonance, Vol.21, issue 3, March 2016, p 285-288.
2. Use of weeds and agro-based raw materials and their blends for handmade paper making
DU Journal of Undergraduate Research and Innovation
Vol.1, Issue 3,169-179,2015
3. **BODMEL**: A Compact Apparatus for Simple Distillation, Boiling Point and Melting Point Determination.
Journal of Laboratory Chemical Education, 2014, 2(3), pp 50-52.
Doi: 10.5923/j.jlce.20140203.03
4. Microwave assisted synthesis of nitrophenols from the reaction of phenols with urea nitrate under acid-free conditions.
Tetrahedron Letters, Vol.55, issue 7, February 12, 2014, p 1320-1322

5. A Safe Procedure for Bromination of Acetanilide
Resonance, Vol.18 issue 3, March 2013, p 282-284
6. The Biorefinery Concept: Applications to the Paper and Pulp Industry
In Paper India (news and views of the Indian paper industry), June 2012 issue.
7. Distinguishing Between Monosaccharides and Disaccharides
Resonance, Vol.15 No.12, December 2010, p1122-1126
8. A Convenient Microscale Sythesis of α -and β -Glucopyranose Pentaacetates
The Chemical Educator, Vol. 12, No.6, 2007, p-402-408
9. A Simple Test to Distinguish between D-Glucose and D-Fructose
Resonance, Vol.12 No.4, 2007, p 92
10. An Efficient Procedure for Microscale Synthesis of Semicarbazones
Journal of Chemical Education, January 2004, p108
11. An Efficient Microscale Procedure for Syhthesis of Aspirin
Journal of Chemical education, Vol.75 No.6, 1998, p 770
12. Qualitative Organic Analysis Lab
Resonance, Vol.3, No.3, 1998, p 69
13. A Convenient procedure for Microscale Benzoylations
Journal of Chemical Education, Vol.74 No.11, 1997, p 1335
14. Photo oxygenation Studies on 2-Oxazolin-5-ones
Current Science, vol.52 No.17,1983, 803-804.
15. Dye sensitized Photo oxygenation of Eugenol
Ind. Jl. Chem. Section B, 21B (11), 1982, p1043.

Conference Organization/ Presentations (in the last three years)

None in last three years

Research Projects (Major Grants/Research Collaboration)

| S.No | Project Title | Funding Agency | Duration/ Year | Co- Investigator(s) | Collaboration/ Instt/College |
|------|--|---------------------------------|-------------------|------------------------------|---------------------------------|
| 01. | Use of Innovative Raw Materials for Handmade Paper Making. | University of Delhi, Innovation | 2013-2015 | Dr.Babita Kaula Dr.Sarita | Forest Research Institute, |

| | | | | | | |
|----|--|------------------------------|-----------|------------------------------------|----------------------------|--|
| | | Research Council | | Passey | Dehradun | |
| 02 | Developing Environment-friendly Approach to Undergraduate Organic Teaching Laboratory. | University Grants Commission | 2008-2010 | Dr.Samta Goyal Dr.Sarita Passey | Zakir Husain Delhi College | |
| 03 | Design, Fabrication and Testing of small scale kit for Qualitative Organic Analysis. | University Grants Commission | 2001-2003 | Dr.Samta Goyal Dr.Sarita Passey | Zakir Husain Delhi College | |
| 04 | $K_3[Fe(CN)_6]$ - $FeCl_3$ reactions of Aromatic Aldehydes and Ketones. | University Grants Commission | 1997-1999 | Dr.Samta Goyal | Zakir Husain Delhi College | |

Awards and Distinctions

- Awarded the BHU Gold Medal for securing First Rank at M.Sc. Chemistry Examination, 1979 at Banaras Hindu University, Varanasi.
- Awarded Merit Scholarship for two years' of Masters Course study at BHU (1977-1979).
- Awarded the Centre for Advanced Studies Fellowship at Department of Chemistry, University of Delhi and UGC fellowship for doctoral studies (1982-1985).
- Awarded Summer Research Teachers' Fellowship at IISC, Bangalore in 2001.

Association With Professional Bodies

- Member American Chemical Society 2011-2012
- Life Member The Chemical Research Society of India

Other Activities

- Served as President Chemistry Society of the college from 1986-88; 1988-2008; 2014-16.
- Founded the Quiz Society of the college in 2010 and have been serving as Convener since.
- Nodal Coordinator, NSDC-DU skill Development Courses at ZHDC
- Actively involved in Handmade Paper making and Paper Recycling in the college.

Signature of Faculty Member