



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	Dr.	First Name	Shilpi	Last Name	Bhatnagar	Photograph
Designation		Assistant Professor				
Address		Flat No. 30-S, Second Floor, Sector – 7, Jasola Vihar, New Delhi – 110025				
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Residence		+91-11-4186 1066				
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Email		shilpi.nitin@gmail.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Department of Chemistry, University of Delhi, Delhi			2006	
M.Phil.		Department of Chemistry, University of Delhi, Delhi			2002	
PG		Miranda House, University of Delhi, Delhi			2001	
UG		Miranda House, University of Delhi, Delhi			1999	
Any other qualification						
Career Profile						
<ul style="list-style-type: none"> ▪ Assistant Professor (Permanent) in Deshbandhu College, Delhi University since October 31, 2014. ▪ Worked as an Assistant Professor (Adhoc) in Deshbandhu College, Delhi University since October 16, 2009. ▪ Worked as Assistant Professor (Adhoc) in the Department of Chemistry, University of Delhi from July 27, 2009 to October 15, 2009. ▪ Taught as a Research Associate in the Department of Chemistry, University of Delhi from August 01, 2008 to April 11, 2009. Taught M. Sc. (Final) and M. Sc. (Previous) classes. 						
Administrative Assignments						
<ul style="list-style-type: none"> ▪ Member of Chemical Society of Chemistry Department, Deshbandhu College “RESONANCE” ▪ Worked as Member organizing committee in INSPIRE Programme 2013-14 ▪ Member of Annual Cultural Festival “SABRANG”, Deshbandhu College 2014-15 ▪ Worked as Member of Union Advisory Committee 2015-16 ▪ Worked as Co-Convenor (Science) in Admissions during 2015-16 ▪ Worked as a Treasurer of DBCTA 2016-17 ▪ Worked as Convenor of Financial Assistance Committee 2016-17 ▪ Worked as Member of Financial Assistance Committee 2017-18 ▪ Currently working as Member Sports Committee 						
Areas of Interest/Specialization						
<ul style="list-style-type: none"> ▪ Developed new green methodologies for the synthesis and reactions of heterocyclic compounds of biological interest like pyrimidines, acridines, quinzoline, imidazoles etc. in order to increase their bioefficacy. ▪ Apart from this, K₂CO₃ a mediated reaction with aqueous work up has been extensively studied as an ecofriendly methodology for the synthesis of coumarin and chromene derivatives. ▪ Microwave assisted solid supported reactions and neat reaction technology is extensively elaborated towards newer applications and concepts. Further, a new green methodology for the synthesis of acridine derivatives using thin layer chromatography is developed as a useful tool for rapid reaction optimization. 						

Subjects Taught			
B.Sc (H) Chemistry	Organic Chemistry		
B.Sc (Prog) Life Science	Organic Chemistry		
B.Sc (Prog) Physical Science	Organic Chemistry		
B.Sc (Prog) Industrial Chemistry	Organic Chemistry and Industrial Chemistry		
Research Guidance		Not Applicable	
<p>List against each head (If applicable):</p> <ol style="list-style-type: none"> Supervision of awarded Doctoral Thesis Supervision of Doctoral Thesis, under progress Supervision of awarded M.Phil. dissertations Supervision of M.Phil. dissertations, under progress 			
Publications Profile			
<p>List against each head (If applicable) (as Illustrated with examples)</p> <p>a) Books/Monographs (Authored/Edited)</p> <ul style="list-style-type: none"> Reviewed 2 Scripts/ Books of Organic Chemistry in 2016; Publisher Tata McGraw-Hill Education (India) Ltd. <p>b) Research papers published in Refereed/Peer Reviewed Journals</p> <p>c) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals</p> <ul style="list-style-type: none"> Published 16 nos. Research Papers in Journals of National & International repute. <ol style="list-style-type: none"> A novel one pot synthesis of nitrogen containing heterocycles: An alternate methodology to the Biginelli and Hantzsch reactions Mazaahir Kidwai*, <u>Shilpi Saxena</u>, Richa Mohan and R. Venkataramanan <i>Journal of Chemical Society Perkin Trans. 1</i>, 2002, 16, 1845-1846. Pyrimidines as anti-Infective agents Mazaahir Kidwai*, <u>Shilpi Saxena</u>, Shweta Rastogi and R. Venkataramanan <i>Current Medicinal Chemistry-Anti Infective Agents</i>, 2003, 2, 269-286. Solid-supported Hantzsch-Biginelli reaction for syntheses of pyrimidine derivatives Mazaahir Kidwai*, Richa Mohan and Shilpi Saxena <i>Russian Chemical Bulletin</i>, 2003, 52(11), 2457-2460. Base catalysed pyrimidine synthesis using microwave Mazaahir Kidwai*, Shweta Rastogi and Shilpi Saxena <i>Bull. Korean Chem. Soc.</i>, 2003, 24(11), 1575-1578. A facile synthesis of 2-aminobenzene 1,3-dicarbonitrile Mazaahir Kidwai*, Shilpi Saxena and Shweta Rastogi <i>Indian Journal of Chemistry</i>, 2004, 43B, 2423-25. Microwave induced new route to acridine and quinazoline derivatives using TLC plates Mazaahir Kidwai*, Shilpi Saxena and Richa Mohan <i>Journal of Heterocyclic Chemistry</i> 2005, 42, 703-705. A new method for the synthesis of heterocycles from o-phenylenediamine Mazaahir Kidwai*, Shilpi Saxena and Richa Mohan <i>Journal of Korean Chemical Society</i> 2005, 49(3), 288-291 Synthesis of 4-aryl-7,7-dimethyl-1,2,3,4,5,6,7,8-octahydroquinazoline-2-one/ thione-5-one derivatives and evaluation as antibacterials 			

Mazaahir Kidwai, Shilpi Saxena, M. Khalilur Rahman Khan and Sharanjit S. Thukral
European Journal of Medicinal Chemistry 2005, 40(8), 816-819.

- 9) Aqua mediated synthesis of substituted 2-amino-4H-chromenes and in vitro study as antibacterial agents
Mazaahir Kidwai, Shilpi Saxena, M. Khalilur Rahman Khan and Sharanjit S. Thukral
Bioorganic & Medicinal Chemistry Letter, 2005, 15(19), 4295-4298.
- 10) Synthesis of furo[2,3-d]pyrimidines using inorganic solid support
Mazaahir Kidwai, A.D. Mishra and Shilpi Saxena*
Indian Journal of Chemistry, 2005, 44B, 581-584.
- 11) A facile synthesis of substituted pyridines and pyrazolo[3,4-b]pyridines
Mazaahir Kidwai, Ruby Thakur and Shilpi Saxena*
Journal of Heterocyclic Chemistry 2005, 42, 1181-1188.
- 12) An efficient synthesis of 2,4,5-trisubstituted and 1,2,4,5-tetrasubstituted 1H-imidazoles
Mazaahir Kidwai, Shilpi Saxena, Ruby and Shweta Rastogi*
Bulletin of Korean Chemical Society, 2005, 26(12), 2051-2053.
- 13) Environmentally benign synthesis of benzopyranopyrimidines
Mazaahir Kidwai, Shilpi Saxena and Richa Mohan*
Russian Journal of Organic Chemistry, 2006, 42(1), 52-55.
- 14) Novel synthesis of pyrano[3,2-c] coumarin in aqueous media
Mazaahir Kidwai and Shilpi Saxena*
Synthetic Communications, 2006, 36, 2737-2742.
- 15) Molecular Iodine: A versatile catalyst for the synthesis of bis(4-hydroxycoumarin) methanes in water.
Mazaahir Kidwai, Vikas Bansal, Poonam Mathsra, Shilpi Saxena and Rishi K. Somvanshi*
Journal of Molecular Catalysis A: Chemical, 2007, 268, 76-81.
- 16) Review on "Nafion-H : A Versatile Catalyst for Organic Synthesis" in *Current Organic Chemistry*, 2015 (19), 72-98.
Mazaahir Kidwai, Ritika Chauhan, Shilpi Bhatnagar*

d) *Research papers published in Refereed/Peer Reviewed Conferences*

e) *Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences*

f) *Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

▪ **Recent publications:**

- a. Published an article on "Chemistry Puts on a friendly face "in *Asianage* on 12/13/2011 RNI No.57290/94.

Conference Organization/Presentations

List against each head(If applicable)

1. *Organization of a Conference*

1. Presented poster on "Review: Bioactive carbohydrates Scaffold in the CARBO –XXXI International Conference on New Frontiers in Carbohydrate Chemistry and Biology from 14-16 November 2016.
2. Presented poster in the International Conference on Green Chemistry in Environment Sustainability and Chemical Education (ICGC-2016), Daulat Ram College on 17-18 November 2016.
3. Worked as a member of Executive Organizing Committee in the Indo –Portuguese Workshop on Emerging Trends of Nanotechnology in Chemistry and Biology organized by Department of Chemistry, Hansraj College & Deshbandhu College in association with CQM, University of Madeira, Portugal held on 12-13 February, 2016.
4. Presented poster on "Synthesis of Biomedicinal Compound from Marine Organism" in the 9th National Conference on Solid State Chemistry and Allied Areas organized by Bhaskar Acharaya College of Applied Sciences, Delhi

University from 8 th -10 th May 2015.	
<ol style="list-style-type: none"> 5. Participated as a member Organizing Committee and Resource Person in the Inspire Internship Program 2014 organized by Deshbandhu College, Delhi University held from October 8-12, 2014. 6. Participated as a member Organizing Committee and Resource Person in the Inspire Internship Program 2013 organized by Deshbandhu College, Delhi University held from December 16-20, 2013. 7. Presided as a Resource Person and member Organizing Committee in the Inspire Internship Program 2012 organized by Deshbandhu College, Delhi University held from October 1-5, 2012. 8. Participated in the workshop on "Theory & Practical Course –Biochemistry & Environmental Chemistry "organized by Department of Chemistry , University of Delhi held from July 2-7, 2012. 9. Participated in the National Seminar on "Recent Trends in Chemistry "organized by Sri Venkateswara College, Delhi University held from March 20 -22, 2012. 10. Participated in the International Conference on Interface between Chemistry and Environment organized by Ramjas College, Delhi University held from December 13-14, 2012. 	
Research Projects (Major Grants/Research Collaboration)	
<ul style="list-style-type: none"> ▪ Worked as Research Scientist with Jubilant Organosys Ltd. Noida from December 2005 to June 2007 (18 months). ▪ Worked in the field of eco-friendly synthetic approaches for bioactive heterocycles for four and a half years at the Department of Chemistry, University of Delhi under the supervision of Professor M. Kidwai. 	
Awards and Distinctions	
<ul style="list-style-type: none"> ▪ Most Cited Paper 2005 – 2008 Award <i>Bioorganic & Medicinal Chemistry Letters</i> <p>PAPER TITLE: AQUA MEDIATED SYNTHESIS OF SUBSTITUTED 2-AMINO-4H-CHROMENES AND IN VITRO STUDY AS ANTIBACTERIAL AGENTS</p> <p>Published in: <i>Bioorganic & Medicinal Chemistry Letters</i>, Volume 15, Issue 19 (2005), Pages 4295-4298.</p>	
Association With Professional Bodies	Not Applicable
<ul style="list-style-type: none"> • <i>Editing</i> • <i>Reviewing</i> • <i>Advisory</i> • <i>Committees and Boards</i> • <i>Memberships</i> • <i>Office Bearer</i> 	
Other Activities	Not Applicable

Signature of Faculty Member

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