




Faculty Details proforma for Gargi College

Title	Dr.	First Name	GEETA	Last Name	SAINI	Photograph
Designation	Assistant Professor					
Address	Department of Chemistry Gargi College, SiriFort Road University of Delhi. 110049					
Phone No Office						
Residence						
Mobile	09891350220, 8800292820					
Email	saini.geeta18@gmail.com					
Web-Page						
Educational Qualifications						
Degree	Institution				Year, division, (%PC)	
Ph.D.	Indian Institute of Technology, New Delhi, INDIA				2010	
MSc.	Maharshi Dayanand University, Rohtak, India				2003, 1st, (74.8%)	
Career Profile						
19 th Oct, 2015 – till date: Assistant Professor, Department of Chemistry, Gargi College (Permanent)						
20 th Jan, 2011 – 15 th Oct, 2015 : Assistant Professor, Department of Chemistry, Gargi College (Adhoc)						
1 st Feb, 2010 – 31 st Dec, 2010, Project Scientist, Indian Institute of Technology, Delhi						
Administrative Assignments						
Convener, Chemical Society, Department of Chemistry, 2015-2016						
Member of NSS, Training and placement cell, Gargi College, 2016-17						
Areas of Interest / Specialization						
<ul style="list-style-type: none"> • Synthesis of organic conjugated materials for electronic applications • Development of bio-degradable plastic for sustainable environment 						
Subjects Taught						
Basic Organic chemistry and reaction mechanism, Stereochemistry, Chemistry of Functional Group, Chemistry of Bio-molecules, Environmental Chemistry, Atomic Structure.						
Research Guidance						
Supervision of MSc. Dissertation						
<ul style="list-style-type: none"> • Starch-PVA Blend: synthesis, properties and biodegradability, Pooja Narula, (Jan-May 2016) Enrolment No. A4450914087, Amity institute of Applied Science, Noida, UP 						

Supervision of BSc. Projects (Gargi College Pathfinder Award, Under DBT Star College Scheme)

- SMART FABRIC: DEVELOPMENT OF NANO SILVER COATED COTTON FABRIC (2017-18), Kajal (Chemistry (H)) 3rd Year, Manisha Dagar and Prerna Yadav, Microbiology (H) 2nd Year
- Synthesis and characterization of Starch:PVA:NanoAg based completely biodegradable polymeric blends-An alternative to conventional polymers (2016-17), Witty Tyagi and Gunjan (Microbiology (H)) 3rd Year
- Small Scale Water Treatment Plant: Waste Water from Gargi College Canteen and Laboratories (2014-15) Shweta Kalra, Urminder Kaur (Chemistry (H)) 2nd Year
- Wealth from Waste: A Green Method to Produce Biodiesel from Waste Cooking Oil and Generation of Useful Products from Waste Further Generated "A SOCIAL AWARENESS PROJECT" (2013-14) Dimple Garg, Nidhi Garg and Malvokia (Chemistry (H)) 2nd Year

Recent Publications

Book : *Science and Life*, (Co-author Dr. Richa Achrya) Publisher R. Chand & Co. Delhi. ISBN 81-8045-095-3

Research Paper in referred/peer reviewed journal

1. "Tetrathiophenes with thiophene side chains: Effect of substitution on packing and conjugation." G. Saini, N. T. Lucas, J. Jacob, *Tetrahedron Letters*, 2010, 51, 2956-2958.

Publication: Elsevier ISSN: 0040-4039 Impact Factor: 2.376

2. "Synthesis and characterization of hexathiophenes with methylthienyl side chains." Geeta Saini and Josemon Jacob, *Macromolecular Symposia*, 2010, 298, 154-159.

Publication: Wiley Print ISSN: 1022-1360 Online ISSN: 1521-3900 Impact Factor: 0.913

3. "Synthesis and characterization of 3,4-diaryl substituted polythiophene derivatives." Geeta Saini and Josemon Jacob. *Polymer International*, 2011, 60, 1010-1015.

Publication: Wiley Online ISSN: 1097-0126 Impact Factor: 2.125

4. "Synthesis, characterization and OFET characteristics of 3,4-diaryl substituted poly(thienylene vinylene) derivatives." Geeta Saini, Josemon Jacob, Satyaprasad P S and K S Narayan. *Polymer Bulletin*, 2011, 67, 753-761.

Publication: Springer Print ISSN: 0170-0839 Online ISSN: 1436-2449 Impact Factor: 1.332

5. "Interplay of alpha, alpha versus alpha, beta-conjugation into the Excited States and Charged Defects of Branched Oligothiophenes as Models for Dendrimeric Materials" Rafael C. González-Cano*, G. Saini, J. Jacob, J. T. López Navarrete, J. Casado M. Carmen Ruiz Delgado *Chemistry A European Journal* Volume 19, Issue 50, 2013, Pages: 17165–17171. Publication Wiley Online ISSN: 1521-3765 Impact Factor: 5.831

6. Effect of Spacers on 3, 4-Disubstituted Polythiophene Derivatives

Geeta Saini, *The International Journal of Engineering and Science*, 2014, Volume 3, Issue 3, Pages 38-42
ISSN(e): 2319 – 1813 ISSN(p): 2319 – 1805

7. Wealth from Waste: A Green Method to Produce Biodiesel from Waste Cooking Oil and Generation of Useful Products from Waste Further Generated "A Social Awareness Initiative" Indu Tucker Sidhwani, Geeta Saini, Sushmita Chowdhury, Dimple Garg, Malovika, Nidhi Garg Volume 1, Issue 1, page 131-151, 2015. ISSN 2395 – 2334

8. Synthesis, characterization and photovoltaics studies of 3-alkylthienyl thiophene based polymers prepared via direct arylation polymerization. Geeta Saini, Vishal Sharma, Vandna Luthra and R.P. Tandon. *Advanced Materials Letters* DOI: 10.5185/amlett.2017.1483. vol. 8, issue 7, pg 813-818, 2017.

9. Ayurveda : The Ancient Indian Science (chapter 8 in book entitled "Indian and Western knowledge

traditions) Page 56-64. ISBN 978-93-85144-82-0 Shivalik Prakashan, Delhi

Conference Paper

Donor acceptor based low band gap polymers for organic solar cells

Geeta Saini, R.P Tandon and J. Josemon, DOI: 10.5185/icmtech.2016, Proceeding of International Conferences on Materials Sciences and Technology, 01-04 March 2016, India Copyright © 2016 VBRI Press

Conference Organization/ Presentations

1. Acted as one of the organizer in 3 day interdisciplinary seminar on “Exploring New Dimensions of Knowledge, organized by Department of Chemistry on 17-19 July, 2017.
2. Acted as one of the coordinator in a two day national conference on “Combating Industrial Pollution for Sustainable Environment-A fusion of Scientific and industrial efforts” organized by Department of Chemistry, Gargi College on Sept 22-23, 2016.
3. Participated in Short term training program on Recent “Development in Nano and Micro manufacturing” organized by School of Engineering and Technology” IGNOU, Delhi on 15-19th April 2013.
4. Participated in National workshop on Electron Microscopy and allied techniques organized by electron microscope society of India, North chapter and university of Delhi during Dec 21-23, 2015, held at department of physics and astrophysics, university of Delhi, Delhi.
5. Delivered an oral presentation in the International Conference on Materials Science & Technology, 01st – 04th March, 2016, at the Conference Centre, University of Delhi, India.
6. Attended and resource person for inter college workshop on Green Chemistry held at Gargi college, on 13 Aug, 2016
7. Attended Indo-UK Scoping workshop on “Development of Rural Bio-refineries in India: from waste to wealth” on 20 Feb, 2017.
8. Acted as resource person for “Preparation of Organic Reagents” in a two day intercollege workshop for Chemistry Laboratory staff on 14-15 July, 2016.

Research Projects (Major Grants/Research Collaboration)

- DST- Fast Track Project For Young Scientist (CS-143/2013) (2014-2017)

Title: “**Synthesis and characterization of organic conjugated ambipolar molecules for electronic applications**”

Total Fund: 8.80 lakh

Awards and Distinctions

- CSIR Junior Research Fellowship (From Nov 04 to Nov 06)
- Senior Research Fellowship (From Nov 06 to Nov-09)

Association With Professional Bodies

- Life Member of Indian Society of Technical Education
- Life Member of association of chemistry teachers

Other Activities

Contributed in the e-PG Pathshala project by UGC under the NMEICT mission of MHRD, Govt. of India, as co-Author in Chemistry subject. (content writer of 10 modules of Environmental Chemistry paper)