




Faculty Details proforma for Gargi College

Title	Dr.	First Name	Vaijyanthi	Last Name	B	
Designation		Associate Professor				
Address		Block Y – 40 B, Ground Floor Hauz Khas New Delhi - 110016				
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Web-Page						
Educational Qualifications						
Degree		Institution			Year	
B.Sc (Hons.)Chemistry		Miranda House (University of Delhi)			1985	
M.Sc Chemistry		IIT (Delhi)			1987	
Ph.D in Chemistry		University of Delhi			1992	
Diploma in French		Delhi Univ.			1990	
Career Profile						
<p>Teaching Experience : 25 years Worked as lecturer in chemistry (temporary) in Maitreyi college from August, 1992 to March, 1995. Joined Gargi college in March 1995 as lecturer and continuing as Associate Professor.</p>						
Administrative Assignments						
<ul style="list-style-type: none"> • <i>Deputy superintendent</i> of examination in theory papers in 1998. • <i>Superintendent of Chemistry Practical</i> examination in 2001-02 and 2004-05. • <i>Member</i> of the committee of restructured courses during 2005-06. • <i>Convenor</i> of computer lab committee from April, 2005-2012. • As convenor of the computer lab committee, set up a central computer facility (with other committee members) in the college consisting of 21 computers in 2005. • Was instrumental (with other committee members) in setting up a second computer lab in 2007 for the computers provided by the University of Delhi. • Coordinated in finalization of the Annual report of the college, which involved tasks like 						

compilation of the matter given by various departments to close supervision of the printing work.

- Prepared the annual report of the college for five successive academic years 2006-07, 07-08, 08-09, 09-10 and 10-11. Also assisted in the preparation of the power point presentation of the Annual report for the four years.
- *Convenor* of the prospectus committee during the year 2008-09; *Coordinated* the production of the prospectus for the year 2009-10.
- Member of the “notebook purchase committee” which purchased notebooks (laptops) for issuing to teachers during 2010-11.
- Member of the pathfinder award committee (science) in 2011-12 and convenor in 2012-13.
- Member of the *star college committee* from 2009 -2013, 2014-till date.
- Member of committee for preparation of self-study report for NAAC accreditation.(2014-15)
- Proctor (2015-17).
- Member of IQAC since 2016

Corporate Participation at the Departmental Level:

- Teacher – in – charge of the department of Chemistry, Gargi college (2001 and 2005)
- *Staff advisor* of Chemical society at Gargi College – 1998-2000; 2009-10, 2014-15, 2016-17.
- Assisted in the publication of magazine Amalgam in 2009, 2017.
- Convenor of the Science festival “Scintillations” in the year 2014-15.

Member of various committees at the departmental level and performed various duties as and when assigned.

Areas of Interest/ Specialization

- **Specialization:** Physical Chemistry, **Areas of interest:** Instrumental methods of analysis – in particular , spectroscopic studies of biomolecules.

Subjects Taught

Physical chemistry
Analytical chemistry
Computational Chemistry/Theoretical Chemistry

Research Guidance

Guided the following student projects:

Analysis of Chemical Compound in Soil by Aapeksha, Heena Madan, Sangeeta Sewda and Simranjit Kaur, B.Sc. (Hons.) Chemistry III yr (Guided by Dr.B.Vaijyanthi,

Dr.Minakshi Sharma and Dr.Keya Banerjee) (star college scheme) 2011-12.

Application of a syllabus based experiment to evaluate selected biomolecules using a novel approach by Preeti Barnwal and Zakia Bano, B.Sc(Hons.) Chemistry III yr (Guided by Dr. S. Bhanumati, Dr. B. Vajjayanthi, Dr. Anita Chugh, Dr. Minakshi Sharma, Dr. Keya Banerjee) 2009-10.

A Greener approach for synthesis of Metal complexes of Acetylacetone for their use as efficient catalyst, Aditi Vashistha¹, Rohima Sharma¹, Sakshi Dewasthale¹, Gunjan Dhawan¹, B.Sc(Hons) Microbiology and B.Sc(Prog.) P.Sc students of Gargi College, Dr. B. Vajjayanthi, Dr. Indu Tucker Sidhwani, 2017.

Publications

1. Vajjayanthi, B., Atreyi, M., Rao, M.V.R., Schwaller, M.A., Aubard, J. & Dodin, G., *Indian Journal of Chemistry*, 30B, 153-157 (1991): ISSN : 0376-4699
2. B. Vajjayanthi, P. Kumar, P.K. Ghosh & K.C. Gupta, Recent Advances in Oligonucleotide Synthesis and their applications, *Ind. J. Biochem. Biophys.* Vol. 40, 377-391 (2003): ISSN: 0301-1208
3. Jyoti Choitani, B. Vajjayanthi, Pradeep Kumar, K.C. Gupta, Construction of Oligonucleotide Microarrays (Biochip) using heterobifunctional Reagents, *Methods Mol Biol.* (2007) 381, 133-164. ISSN: 1064-3745.
4. B. Vajjayanthi, S. Mahajan, G. Rembhotkar, K.C. Gupta, P. Kumar, Choice of Polymer Matrix, its Functionalization and Estimation of Functional Group Density for Preparation of Biochips, *Methods Mol Biol.* (2007) 381, 165-88. ISSN: 1064-3745
5. P. Kumar, B. Vajjayanthi and K.C. Gupta, Strategies for development of Universal polymer supports for oligonucleotide syntheses in **Heterocyclic Chem.**; Chapter 3, , Ed. D.C. Gautam, RBSA Publishers, Jaipur, pp 26-54, 2004. ISBN 13: 9788176112116.
6. V.K.Ahluwalia, SushmitaChowdhury, B. Vajjayanthi (2008) Basic chemistry for class 11, BharatiBhawan Publishers and Distributors. ISBN-13: 9788177098518
7. N. Ojha, SushmitaChowdhury, B. Vajjayanthi (2011) Basic chemistry for class 12, BharatiBhawan Publishers and Distributors. ISBN 13:9789350270226

Conference Organization/ Presentations

1. Participated in the workshop on “*How to attract and retain meritorious students in Maths and Science*” organized by National Knowledge Commission on 10th September, 2007.
2. Participated in the workshop on “*Development of Web based Value Addition Material in Inorganic Chemistry for B.Sc. Programme I yr*” at ILL, University of Delhi, held on 2nd and 3rd May, 2009.
3. Attended a workshop on “*Developing Champions for ICT Capacity Building in DU*” held by ILL in collaboration with Microsoft, from 10th to 28th August, 2009.
4. Gave a talk on “*Formalising the non formal*” at the Delhi University ACADEMIC CONGRESS titled “*Enabling the Young: Rethinking Education*”, 6 & 7th September 2012.
5. One of the *coordinators* for the Summer workshop on “*Recent trends in Scientific Research*” held under the star college scheme of Gargi College from 15th to 30th June, 2009. Also *resource person* for the session on “**Computers in Chemistry**”
6. *Member of the organizing committee* for a one day Seminar on “*Criminology and Forensic Science*” held at Gargi College in 1998.
7. *Member of the organizing committee* for a seminar on “*Chemistry, Environment and You (Challenges for future)*” held on 26th and 27th Sept., 2007.
8. *Coordinator* of WikiEducatorGargi 2009 workshop on open educational resources held on 12th, 13th and 15th Jan., 09.
9. One of the *coordinators* for the Summer workshop on “*Recent trends in Scientific Research*” held under the star college scheme of Gargi College from 15th to 30th June, 2009. Also *resource person* for the session on “**Computers in Chemistry**”
10. Member of organising committee of Summer Workshop under Star College Scheme from 6th to 9th July, 2010
11. *Member of organizing committee* for a one day seminar on “*New Frontiers in Biotechnology*” held on 2nd December, 2009 under the Star College Scheme at Gargi College.
12. *Member of the organizing committee* for an add on course in “*Advances in Forensic Science*” being conducted in collaboration with Directorate of Forensic Science, Ministry of Home Affairs; 2010-11
13. Member of the committee which organised “*International Year of Chemistry*” with the theme “*Chemistry in our lives*”; held by Chemistry department, Gargi College, 18th and

19th October, 2011.

14. *Member of organising committee* for the seminar on “Role of e-technology in academic research and teaching-learning interactions”, 8-9 Dec., 2011.
15. *Member of organising committee* for the Technical session “Commerce and Value Building” in the conference “*Convergence in Higher Education: Building Holistic Perceptions*” held on 7th and 8th Nov., 2012 at Gargi College.
16. Member of organizing committee for “*Environmental Health Sensitization Workshop*” held for students of Gargi college, on 22 March, 2017, by The Centre for Environmental Health, Public Health Foundation of India (PHFI) with support from the Wellcom Trust/DBT India Alliance.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Association With Professional Bodies

Other Activities

Accompanied the students of Gargi college in the **Gyanodaya express** journey organized by DU from 8th July 2012 to 19th July 2012.

Assistant Coordinator of IGNOU study centre at Gargi College (since August, 2017)

Staff training programmes attended/conducted

1. Attended a workshop on “*Developing Champions for ICT Capacity Building in DU*” held by ILLI in collaboration with Microsoft, from 17th to 28th August, 2009.
2. In continuation to the above workshop, ILLI organised workshops for the Gargi faculty from March 9th to 16th and April 12th to 16th, 2010; was member of the organising committee within the college, *coordinator* for one batch and *resource person* for all the batches.
3. Attended a workshop on “*Computer Aided Molecular Modeling and Drug Discovery*” organized by Department of Chemistry, St. Stephen’s College and Schrodinger GmbH,

Bangalore, India, on July 25-26, 2016. Learnt the use of a molecular modelling software, Schrodinger.

4. Resource person at the Inter-college Chemistry Workshop for Laboratory Staff, held on July 15-16, 2016, at Gargi College.

5. Organised a workshop on "Green Chemistry" for teachers, of various Colleges of University of Delhi on August 13, 2016.

6. Organised the workshop "Train the Trainer", a Yusuf Hameid Inspirational chemistry programme of Royal Society of Chemistry, London, for teachers of various schools on 24, 25 October 2016 at Gargi college.

7. Attended a one day workshop for teachers on "Molecular modelling and Drug Design" held at ARSD college on 23 Jan, 2018.

Participation in Curriculum Restructuring : Participated in reviewing of syllabus for FYUP and CBCS.