




## Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Aparna	Last Name	Jain	Photograph
<b>Designation</b>		<b>Associate Professor</b>				
<b>Address</b>		D-184, Ashok Vihar, Phase 1, Delhi-110052				
<b>Office Phone No.</b>						
<b>Residence</b>						
<b>Mobile</b>						
<b>Email</b>		jainaparna@yahoo.com				
<b>Web-Page</b>						
<b>Educational Qualifications</b>		<b>M.A., M.Phil, Ph.D (Mathematics)</b>				
<b>Degree</b>		<b>University/Institute</b>			<b>Year</b>	
<b>Ph.D.</b>		University of Delhi			2009	
<b>M.Phil./M.Tech.</b>		University of Delhi			1997	
<b>PG</b>		University of Delhi			1995	
<b>UG</b>		Hans Raj College, university of Delhi			1993	
<b>Any Other Qualification</b>						
<b>Career Profile</b>						
<p>Teaching Mathematics to undergraduate students and working in various staff council committees in the college. Also performing all duties related to admission, examination, syllabus formations etc., and research activities.</p>						

### Administrative Assignments

Teacher in Charge of Department of Mathematics in Shivaji College in 2010.  
A member of various staff council committees like Timetable, Library, Cultural, website, Eco club, NSS, Women Development Cell etc.  
A member of NAAC committee in college and have also been a staff member of Governing body.

### Areas of Interest/Specialisation

Algebra, Fuzzy set theory, Fuzzy Algebra, Discrete Mathematics, Logic.

### Subjects Taught

Algebra To Ist, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> semesters of B.Sc. (H) Mathematics.  
Discrete Mathematics (Boolean Algebra, Graph Theory)  
Calculus Practicles in Mathematica Software to Ist and 2<sup>nd</sup> semester.

### Innovation Project/Research Projects (Major Grants/Research Collaboration)

### Publications Profile (Research Papers/Books)

Publications :

1. A.Jain, Tom Head's join structure of fuzzy subgroups, Fuzzy sets and systems, 125 (2002) 191 – 200, Elsevier, ISSN- 0165-0114, Impact factor – 1.986.
2. A. Jain and N. Ajmal, A new approach to the theory of fuzzy groups, Journal of fuzzy Mathematics, 12(2) 2004, 341 – 355, International fuzzy mathematics institute, USA, ISSN : 1066 -8950.
3. A.Jain and N. Ajmal, Categories of fuzzy sets and fuzzy groups and lattices of subobjects of these categories, Journal of fuzzy Mathematics, 14(3) 2006, 573-582.

4. A.Jain, Fuzzy subgroups and certain equivalence relations, Iranian journal of fuzzy systems, Vol. 3, No. 2 (2006) 75 -91, ISSN : 1735 – 0654, Impact factor – 0.534.
5. A.Jain and N.Ajmal, Some constructions of the join of fuzzy subgroups and certain lattices of fuzzy subgroups with sup property, Information Sciences. 179 (23) (2009) 4070 – 4082, ISSN : 0020 – 0255, Elsevier, Impact factor – 4.038.
6. A.Jain and N.Ajmal, Images and preimages of subobjects under the morphisms in a new category of fuzzy sets-I, Fuzzy Information and Engineering, Vol. 4, No. 3, (2011), Elsevier, ISSN : 1616 – 8658.
7. A. Jain and Sonia, Generated Intuitionistic fuzzy subgroups, (t, k) equivalence relation and congruence, Annals of fuzzy Mathematics and Informatics, Vil. 9, No. 3, (2015), 489 - 502, ISSN : 2093 – 9310.

**Conference/Seminar/Faculty Development Programme/Workshop**

Participated in “Science Academies” Lecture Workshop organised in Shivaji College during 16-17 October 2014.

**Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)**

**Awards and Distinctions**

1. Participated in Mathematics Training and Talent Search Programme (Funded by NBHM) at IIT Powai, Mumbai for one month each in the years 1993 and 1994 and was selected both the times for further training.
2. Received NBHM scholarship (Funded by Deptt. of Atomic Energy, Govt. of India) for two years, 1993 -1995, based on written test and interview.

**Memberships**

1. Reviewer for articles and journals in Mathematical Reviews, American Mathematical Society.
2. Referee (reviewer) for papers submitted to Iranian journal of fuzzy systems and journal of fuzzy information and engineering (Elsevier).

**Other Academic Activities**

Research Activities  
Examination related activities  
Syllabus and guidelines formations  
Admission work

**Cultural/Extracurricular Activities**

I have been an active member of Cultural committee for two years (2016-2018) and organised many cultural events during this period.



**Signature of Faculty Member**