



## Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Surbhi	Last Name	Madan	Photograph
<b>Designation</b>		<b>Associate Professor</b>				
<b>Address</b>		<b>A-5B/324, Gate No. 9, Shanti Kunj Paschim Vihar, New Delhi 110026</b>				
<b>Office Phone No.</b>		<b>011-25155551</b>				
<b>Residence</b>						
<b>Mobile</b>						
<b>Email</b>		<a href="mailto:surbhimadan@gmail.com">surbhimadan@gmail.com</a>				
<b>Web-Page</b>						
<b>Educational Qualifications</b>		<b>Ph D</b>				
<b>Degree</b>	<b>University/Institute</b>				<b>Year</b>	
<b>Ph.D.</b>	<b>University of Delhi</b>				<b>2012</b>	
<b>M.Phil./M.Tech.</b>	<b>University of Delhi</b>				<b>2000</b>	
<b>PG</b>	<b>Kirori Mal College, University of Delhi</b>				<b>1998</b>	
<b>UG</b>	<b>Kirori Mal College, University of Delhi</b>				<b>1996</b>	
<b>Any Other Qualification</b>						
<b>Career Profile</b>						
2002- Till Date Shivaji College (University of Delhi) 2001-2002 Temporary Lady Shri Ram College (University of Delhi) 2000-2001 Temporary Jesus and Mary College (University of Delhi) 1999-2000 Ad-hoc Kirori Mal College (University of Delhi)						

**Administrative Assignments**

- Teacher-in-charge of the Mathematics department in 2005-06 and 2011-12
- Convener, college Annual Day held in March 2014.
- As a member of timetable committee, 2013-15, was responsible for preparing master timetables for Arts courses of the college.
- As a member of timetable committee, worked towards successful preparation of timetable software for the college. This has eased the preparation and access of timetables for teachers.
- NAAC Core Team member. Prepared Criterion V for NAAC report.
- Admissions committee co-convener in 2016-17 and 2017-18 .
- Head/Additional Examiner at number of Delhi University examinations.

**Areas of Interest/Specialisation**

Algebraic Coding Theory

**Subjects Taught**

Real Analysis, Theory of Functions, Riemann Integration and convergence of series, Metric Space, Algebra 1

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

UNIVERSITY OF DELHI, INNOVATION PROJECT 2013-14

PROJECT CODE: SHC-206

PROJECT TITLE : REAL TIME TRAFFIC SOLUTION

**Publications Profile (Research Papers/Books)**

1. B.K. Dass and Surbhi Madan, Repeated Burst Error Locating Linear Codes, Discrete Mathematics, Algorithms and Applications, 2(2): 181-188, 2010.
2. B.K. Dass and Surbhi Madan, Blockwise Repeated Burst Error Correcting Linear Codes, Ratio Mathematica - Journal of Applied Mathematics, 20: 97-126, 2010.
3. B.K. Dass and Surbhi Madan, Syndromes of Shifts in Cyclic Codes, , Information Theory and Optimization Techniques in Scientific Research, VDM Verlag(Germany), 69-88, 2010.
4. B.K. Dass and Surbhi Madan, Blockwise Repeated Low-density Burst Error Correcting Linear Codes, Italian Journal of Pure and Applied Mathematics, 30:87-100, 2013.
5. B.K. Dass and Surbhi Madan, Repeated Low-Density Burst Error Locating Codes, Acta Universitatis Apulensis, 33:175-191, 2013.

### Conference/Seminar/Faculty Development Programme/Workshop

- Convened a session in National Conference on “Learning Mathematics: Concerns & Future Directions”, organized by Bal Bharti Public School, Pitam Pura on April 26, 2013.
- Delivered the Inaugural talk at the “National Conference on Algebra, Analysis, Coding and Cryptography”, organized by the Department of Mathematics, University of Delhi on October 14-15, 2016.
- Contributed in Mathematics Lab Manual prepared by the Department for “INSPIRE Science Camp”, DST, held in December 2015 and December 2016.
- Resource person at the INSPIRE Science Camp, DST, December 2016 at Shivaji College.

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

### Awards and Distinctions

- Gave a presentation in University- Industry Interface at Antardhwani 2015, University of Delhi, Annual Academic and cultural festival, held on 20-22 February 2015. Received the award for “ Best Innovative Idea”, for the same.
- Received award for “Best Display” in the theme- Economic development at Antardhwani 2015, University of Delhi, Annual Academic and cultural festival, held on 20-22 February 2015.
- Received Teaching Excellence Award on 1st May 2015 for the Innovation project submitted to University of Delhi.

### Memberships

Life Member of the following mathematical societies:

- American Mathematical Society
- Ramanujan Mathematical Society
- Academy of Discrete Mathematics and Applications
- Vijnana Parishad of India

### Other Academic Activities

### Cultural/Extracurricular Activities

Was Member of Cultural Committee during 2016-18. As a member of the committee, was involved in organising number of cultural programmes.

**Signature of Faculty Member**