

## **RESUME**

**Dr. Sarla Devi Bhardwaj**

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**Date of Birth:** 1.1.1964

### **Educational Qualifications:**

Degree	Year of Passing	University	Div.	% of Marks
XII	1981	CBSE	I	69
B.A. (P)	1985	Delhi University	II	56.33
M.A.(Maths)	1987	Delhi University	I	67.5
Ph.D.	1993	Delhi University	Under Prof. B. Choudhary (IIT) & Prof. Ajit Iqbal Singh, Delhi University	

**Present Employment:** Presently working as Professor in the Department of Mathematics at Dr. Bhim Rao Ambedkar College (Delhi University).

### **Teaching Experience**

31 and a half years. I started teaching as a **Lecturer** at Dr. Bhim Rao Ambedkar College from 16.7.1991 which was the inception of the College.

### **Additional Charge**

Teacher-in-charge, NCWEB (University of Delhi), St. Margaret Teaching Centre, Prashant Vihar, from June 2003-June 2012 (9 Years).

### **Papers Presented**

S. N.	Title of Lecture/Paper	Nature of Programme	Level	Date of presentation	Sponsoring Agency
1	Ram Katha mein Ganitiya Tatva	National Seminar	National	19.3.2021	ICSSR
2	Understanding health concerns of Elderly during Coronavirus Pandemic: A statistical Approach	1 <sup>st</sup> National Conference on Application of Mathematical tools in Social Sciences	National	17.10.2020	Zakir Hussain College
3	Innovating Mathematics teaching strategies	8 <sup>th</sup> National Conference on Teaching & Learning in	National	20.12.2019	NCERT

		Mathematics			
4	How Gender Affects Different Emotional Competencies	8 <sup>th</sup> International Conference on Evaluation of Modern Education System	International	25.9.2016	IPERA and HIBS
5	Health Needs of Elderly in Rural Areas of Lalitpur District in Uttar Pradesh	Third International Congress on	International Gerontology and Geriatric Medicine 2015	27.11.2015	INPEA
6	Matrix Transformations in spaces of bounded and convergent difference sequence of order m.	Indian Science Congress	National	7.1.97	Indian Govt

### **Invited Talks**

S. N.	Title of Lecture/Paper	Nature of Programme	Level	Date of presentation	Sponsoring Agency
1	New Education Policy	Jeevan Shilp Inter college	National	15 <sup>th</sup> August 2020	Jeevan Shilp Inter college
2	Protsahan	Skill India	National	27 <sup>th</sup> April 2018	Government of India
3	Pedagogy of Maths etc.	Seminar for master resource person	National	2 <sup>nd</sup> May 2016- 6 <sup>th</sup> May 2016	SCERT, Punjab
4	Mathematics Teaching	Capacity Building Program for key resource person	National	28 <sup>th</sup> Feb- 29 <sup>th</sup> Feb 2016	RIE, Ajmer
5	Pedagogy of Maths etc.	Seminar for master resource person	National	9 <sup>th</sup> Feb 2016- 10 <sup>th</sup> Feb 2016	SCERT, Punjab
6	Number System	Jeevan Shilp Inter college	National	6 <sup>th</sup> April 2015	Jeevan Shilp Inter college
7.	How to connect Probability and Statistics	Seminar for in severe Mathematics Teachers	State Leve l	16 <sup>th</sup> June 2014	SCERT, New Delhi
8.	Set Relations and Functions	Seminar for in severe Mathematics Teachers	State Leve l	12 June 2014	SCERT, New Delhi
9.	Basics Statistics	Seminar for in severe Mathematics Teachers	State Leve l	11 June 2014	SCERT, New Delhi
10.	Mathematical games, Open book problems	Seminar for in severe Mathematics Teachers	State Leve l	31 Dec 2013	SCERT, New Delhi
11.	How to Introduce probability to school students	Seminar for in severe Mathematics Teachers	State Leve l	30 Dec 2013	SCERT, New Delhi
12.	How to introduce Algebra to Beginners	Seminar for in severe Mathematics Teachers	State Leve l	28 Dec 2013	SCERT, New Delhi

13.	Math-magic	Seminar for in severe Mathematics Teachers	State Level	27 Dec 2013	SCERT, New Delhi
14.	Number system	Seminar for in severe Mathematics Teachers	State Level	26 Dec 2013	SCERT, New Delhi
15	How to make Mathematics an interesting subject for the students	Seminar for in severe Mathematics Teachers	State Level	27 April 2013	SCERT, New Delhi

### **Published Research Papers**

S.N .	Title of the Paper	Journal Name	Year	Vol. No.	Page No.	ISSN No.	Impact Factor	SCOPUS Indexed	Authorship	Reference number of UGC - CARE List
1	Math-Mining of Bhagwad Gita and Mahabharat	<i>Journal of Xian University of Architecture and Technology</i>	2021	Vol. 13, Issue 12	41-42	1006-7930		Yes	Single Author	
2	Emotional Concerns of the Elderly During CORONA virus in India	Indian Journal of Gerontology	2021	Vol. 35, No. 02	257 to 275	0971-8060		No	One of the Two Authors	List B, Science-121
3	COVID- 19: A Study of Emotions	International Journal of Recent Advances in Psychology and Psychotherapy	2021	Vol. 05 Issue 01	13 to 20	2581 - 4052		No	First	
4	COVID- 19 Pandemic: A Study of Sentiments	Paripex Indian Journal of Research	2021	Vol. 10 Issue 06		2250 - 1991		No	First	UGC Serial No. 49333
5	Package of India using Sentiments and Emotional Analysis	BSSS Journal of Social Work	2021	Vol 13 issue 1(2021)	81 to 97	0975-251X		No	One of the Two Authors	

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6	'Bhagwat Geeta Mein Ganit, Ganit Mein Bhagwat geeta'	Journal of Interdisciplinary Cycle Research	2021	Vol XI II, Issue VI I		002 2-194 5	6.2	No		UGC group II Journals: S. No: 2125 9
7	Ram Katha me Ganitaya Tatva	Anter Rashtriye Hindi evam Samajik Vighyan Shodh Patrika (Shodh Patrika.in)	2021	Vol .9 Issue 2	S. N .6	2348 - 260 5	5.659	No		Peer reviewed referred
8	Health Needs of Elderly in Rural Areas of Lalitpur District in Uttar Pradesh	Indian Journal of Gerontology	2016	vol 30 No 3	32 2 - 3 35	0971 - 806 0		No	One of the Two Authors	
9	How does gender affect emotional competencies	Prachi journal of Psycho - Cultural Dimensions	2016	vol 32 no 2	19 7 - 2 00	0971 - 706 4		No	One of the Two Authors	
10	A sequence space defined by Orlicz functions	<i>Aprox Theory and its Applications</i> (2002)(China)	2002	18(4)	70- 75	1000 - 9221		No	One of the Two Authors	
11	Matrix Transformations of certain sequence spaces through matrix product	<i>Indian J. Pure and Applied . Maths.</i> (2000)	2000	31	11 6 1- 11 66	001 9- 558 8	0.516	Yes	One of the Two Authors	SCIE
12	Matrix Transformations in spaces of bounded and convergent difference sequence of order m.	<i>Analysis</i> (1997) (Germany)	1997	17	87- 97	2196 - 675 3	0.346	Yes	One of the Two Authors	Scopus
13	Sequence spaces defined by Orlicz functions	<i>Indian J. Pure Applied . Maths</i> (1994)	1994	25(4)	41 9 - 4 28	0019 - 558 8	0.516	Yes	One of the Two Authors	SCIE
14	Matrix Transformations of $X_p$ and $Z_p$ into $V_\sigma$	<i>Indian J. Pure and Applied . Maths</i> (1992)	1992	23(1)	39- 48	0019 - 558 8	0.516	Yes		SCIE

15	Kothe Toplitz duals of certain new sequence spaces and matrix transformations	<i>Joun. Inst. Maths &amp; Comp. Sci.</i> (Math series) 1992	1992	5	67-75	OCLC 1925-5652				
16	Matrix Transformations on non-integral quasi-convex sequence spaces	<i>Bull, Cal. Math, Soc.</i> (1991)	1991	83	386-393	0008-0659			One of the Two Authors	
17	Some spaces of matrix operators	Comm. Fac. Sci. Univ., Ankara , Ser-A, (1991)	1991	40	67-74	1303 - 599 1		Yes (ES CI)		ESCI

### **Other Academic Achievements**

- Some of my research papers are referred in internationally reputed books, newspapers and papers of prominent mathematicians.
- Presented a paper and helped organise Indian Science Congress held at Delhi.
- Participated in and helped organise many international and national conference and seminars at college and department of Mathematics, University of Delhi
- Attended four refresher courses and one orientation course organised by CPDHE, University of Delhi.
- Attended six days teachers enrichment workshop organized by National Centre for Mathematics in 2018.
- Attended teacher's enrichment Programme organized by Lady Sri Ram College, University of Delhi on Financial Mathematics: Pedagogy and Career Perspective in 2020.
- Attended 6 days teacher's enrichment Programme organized by Dayal Singh College, University of Delhi on Interdisciplinary Studies and Higher Education Prospects and Challenges in 2021.
- Attended 10 days Faculty Development Programme organized by Hansraj College, University of Delhi on Vedic Mathematics.
- Supervised a Ph.d scholar from Tribhuvan University, Nepal.
- Organised several seminars in the college on different topics where esteemed international and national mathematicians such as Prof. Raman Parimala, Prof. E. Malkowsky (Germany) Prof. Mario Goes (Germany), Prof. S.M. Maskey (Nepal) Ms. Elesia Boldone (Italy), Prof. Volkar Peckhaus (Germany), Prof. S Baghir (Germany), Prof. Geetha Venkataraman, Prof. S.C. Arora, Prof. P.K. Jain, Dr. H.C. Handa, Dr. V.K. Kapoor (Delhi University). Prof. Hukum Singh (NCERT), Prof. Shobha Bagai, Dr. Anuradha Gupta etc. were invited to deliver lectures and share their experiences.

- Presently working as NSS coordinator of Dr. Bhim Rao Ambedkar college and organizing several programmes for the students.
- Also, worked as NSS coordinator of Dr. Bhim Rao Ambedkar college during 2015 to 2017. During this time period college adopted a village of Uttar Pradesh ( Banpur District Lalitpur ) with the coordination of Jeevan Shilp Inter College. Our students under my supervision visited village Banpur twice and work for the community.
  - Organised Workshop for students of Business Economics on basic Mathematics at Delhi University South Campus namely “Back to Basics”.
- Organised “Science Academies’ Lecture Workshop in Mathematics” sponsored by Science Academies’ of India, for students of mathematics.
- Convenor of the syllabus committee of Delhi University FYUP, for C B C S System and also for LOCF systems.
- Chairperson of I C C committee of the college from May 2016 to May 2019.
- Presently working as Chairperson of Local Complaint Committee North East District Delhi.
- Worked as Member of Faculty of Mathematical Sciences Delhi University from 2017 to 2020.
- Presently working as Member Delhi University Committee of World University Service.
- Presently working as Delhi University CBCS Convenor in the college.
- Presently working as Time table committee and Canteen committee convenor of the college.
- Member, Governing Body of B.R. Ambedkar College from 22.08.2003 to 22.08.2004 and 22.08.20-22.08.21.
- Hold the post of Convenor / Member of Student’s Union Advisory Committee almost every year of the college.
- Remained Assistant Coordinator of IGNOU center at B.R. Ambedkar College for 6 months.
- Remained Deputy Superintendent for annual examination at B.R.A.C for regular students.
- Remained teacher-in-charge of the Mathematics Department of the College for several years.
- Convenor, Purchase Committee, Sports Committee, Canteen Committee and Library Committee of the College, and member of different committees, in different years.
- Elected President, staff association of the college (1997-98).
- Worked as the founder secretary of Alumni Club, of the college for 5 years, 2003 to 2007.
- Incharge of Women’s Development Center (WDC) in college and chairperson of the sexual harassment committee of the college for four years.
- Organised Self Defence Training Programme in co-ordination with Delhi Police for the girls of BRAC and NCWEB for last several years.
- Organised Blood Donation Camp in College.
- Elected President, Data Ram Co-operative Group Housing Society, Sec-18, Rohini for 4 years,

- Member, Executive Committee PTA, St. Xavier's School, Raj Niwas Marg, Delhi-54, for two years.
- President, Pandit Lachhman Singh Pyarelal Memorial Trust.

#### *At Non- Collegiate Women's Education Board*

From June 2003-June 2012, I worked as the Center In charge of NCWEB, (St. Margaret teaching Center). Apart from carrying out administrative responsibilities of the Center, I contributed from counseling of students and their parents, and improving the academic results to bringing out an overall growth through organising self-defence training and programs related to extra curricular activities. For the last five years, both the first and the second toppers of B.A (P) first, second and third years were from this center. Moreover, some of our students got 100% marks in mathematics. Two others secured 90% marks in Hindi and more than 80% of the students got distinctions in Hindi and other subjects. Some important programs meant for students are as following:

- (i) Inter Center English & Hindi Debates.
- (ii) Inter Center Poster, Mehendi and Kavita Competitions.
- (iii) Career counseling for students by inviting persons from N.O.S., Adult Education, I.P. University, C. S. Institute, Sampurna NGO, Sky Academy and many others.
- (iv) Organised first aid training programs for students from CATS experts.
- (v) Organised seminars on different topics with speakers from diverse fields, relevant for the academic as well as spiritual growth of the students and staff some of the subjects were as follows: -
  - Women's issues by the NGO Jagori & Delhi Police, by ACP, CAWC Smt. Nirmal Verma
  - Stress Management by Dr. Manju Gupta Hindu Rao Hospital
  - Topics on Mathematics by Head Department of Maths, University of Delhi
  - Topics of Mathematics by Prof. S. Baghir from Germany.
  - "Geeta" by Sh. Satinder Garg (Jt. Commissioner of Police)
  - Awareness of AIDS and its prevention, with the help of U.P.F.
  - Awareness about holistic health by yogacharya Dr. C. B. Singh, Gandhi Bhawan.
  - Awareness about girl's adolescent problems by Dr. Medha Bhargav

#### **Reports**

Have submitted several reports on research papers with various journals like – Indian Journal of Pure and Applied Maths, Journal of Mathematics Kyoto Univ., Soochow Journal of Mathematics (China), School of Mathematical Sciences, Peking University

(China), Temkang Journal of Maths, (China). Bulletin Calcutta Mathematical Society etc. as requested by the editors of these reputed journals.  
Become external examiner of Ph.d thesis of universities.

### **Books Published**

- Basics of Mathematics for Computers by Sarla Bhardwaj & Ms. Pratibha (Shri Venkateswara College, University of Delhi) by S. Chand & Co.
- Publish a book Named Jagrity on the work done during N S S programme officer

### **Awards Received:**

- (i) Shakti Achievement Award - 2020.
- (ii) Dr. Rajendra Prasad Award 2020.
- (iii) Dr. Radhakrishnan memorial Award-2006.
- (iv) Avantika National Award 2004.
- (v) Millennium National Teachers Award- 2000.
- (vi) Ambassador for Peace (Universal Peace Federation).
- (vii) Awarded by Hindi Academy for the play ‘Gaddhe Ka Admi’ in 1993.

Dr.Sarla Devi Bhardwaj