

Curriculum Vitae

NAME : Dr. REKHA SRIVASTAVA

Husband's Name : Mr. Sanjeev Kumar Srivastava

Date of birth : 28-07-1969

Nationality : Indian

Designation : Assistant Professor Grade - III, Department of Mathematics and Astronomy
Lucknow University, Lucknow

Email : rekhasrivastava4795@gmail.com

Mobile No. : 9415796964

Educational Qualification:

<u>S. No.</u>	<u>Examination</u>	<u>Year</u>	<u>Board or University</u>	<u>Subject</u>	<u>Distinction</u>
1	High School	1982	U.P. Board	Hindi, Eng., Sci., Biology, Maths	Mathematics
2	Intermediate	1984	U.P. Board	Gen. Hindi, Eng., Physics, Chem., Maths	Mathematics
3	B.Sc.	1986	Lucknow University	Physics. Chem., Maths	
4	M.Sc.	1988	Lucknow university	Mathematics	
5	Ph.D.	1994	Lucknow University	Mathematics	

Field of Specialization: Approximation Theory

Title of Ph.D. Thesis: A Study of certain mixed type interpolatory polynomials on infinite interval.

Teaching Experiences: U.G. Classes (31 years approx.) (Part Time – 1989 – 2003)
(Permanent – 2004 – till date)
P.G. Classes (14 years approx.) (2007 – till date)
Pre Ph.D. Classes (10 years approx.) (2011 – till date)

<u>S. No.</u>	<u>Positions</u>	<u>Institution Served</u>	<u>Period of Service</u> <u>From To</u>	<u>U.G./P.G.</u>
1.	Part time Lecturer	I.T. College, Lucknow	21.01.89 - 30.04.92	U.G.
2.	Part time Lecturer	Mahila College, Lucknow	19.01.93 – 31.03.95	U.G.
3.	Part time Lecturer	Lucknow University, Lucknow	27.01.96 to 09.06.2004	U.G.

4.	Assistant Professor	Lucknow University, Lucknow	10.06.2004	U.G./P.G.
5.	Senior Assistant Professor	Lucknow University, Lucknow	03.08.2004 – 03.08.2009	U.G./P.G.
6.	Asst. Professor Grade -III	Lucknow University Lucknow	03.08.2009 - till date	U.G./P.G.

Membership of Scientific Societies:

1. Life Member of Bharata Ganita Parishad, Lucknow University, Lucknow
2. Life Member of B.S.N.V. Vigyan Parishad, Lucknow

Administrative Duties:

1. Member of Board of study, Department of Mathematics, Lucknow University, Lucknow.
2. Member of Faculty Board of Science, Lucknow University, Lucknow.
3. Member of Departmental Faculty of Mathematics and Astronomy, Lucknow University, Lucknow.

Text Book Published - 05

1. A Text book on Vector Analysis and Geometry in Unitech House, Lucknow.
2. A Text book on Mathematical Methods in Unitech House, Lucknow.
3. A Text book on Numerical Analysis in Unitech House, Lucknow.
4. A Text book of Geometry and Trigonometry in Unitech House, Lucknow.
5. A Text book of Numerical Analysis in Unitech House, Lucknow.

Research Project:

Young Scientist, DST, Government of India, Ministry of Science and Technology, New Delhi.

Research Assistant:

Research Assistant in PRC Lucknow University, Lucknow (NFHS) funds.

Research Guidance:

03 Ph.D. awarded
02 Ph.D. enrolled

Placement of Ph.D. awarded Students:

1. Geeta Vishwakarma, Teacher at Government Junior High School
2. Dhananjay Ojha, Assistant Professor of Mathematics, Buddha P.G. College, Khushinagar, UP.
3. Yamini Singh, Assistant Professor of Mathematics, Government Girls PG College Rampur, UP.

Conferences/Seminars:

- 1) Annual Conference of Bharat-Ganita-Parishad held at the Department of Mathematics and Astronomy, Lucknow-University, Lucknow in the year, 2004.
- 2) Annual conference of Bharat-Ganita-Parishad held at the Department of Mathematics and

- Astronomy, Lucknow-University in the year 2005.
- 3) Annual conference of Bharat-Ganita-Parishad held at the Department of Mathematics and Astronomy, Lucknow-University in the year 2006.
 - 4) 2nd National symposium on Modern Trends in Differential Geometry and Mathematics Modelling in Bioscience January 9-10, 2010.
 - 5) 3rd National symposium on Modern Trends in Differential Geometry and Mathematics Modelling in Bioscience UGC-SOP (DRS-1) January 15-16, 2011.
 - 6) National conference on recent advances in Mathematics NCRAM-2012.
 - 7) Conference on Mathematics organized by Bharat-Ganita-Parishad, March 2013.
 - 8) Frontier Area of Research in Mathematics 2013 DST-PURSE Programme on 24th August, 2013.
 - 9) National Conference on Role of Mathematics in Advancement of Science and Technology (NCRMAST-2013) held on October 18-20, 2013.
 - 10) National Seminar for Popularisation of Astronomy (NSPA-2013) November 24-26, 2013, University of Lucknow & Council of Science & Technology.
 - 11) Seminar on Frontiers of spectras copy SFS-2008, NOV 10-11, 2008 University of Lucknow, Lucknow.
 - 12) National symposium on Application of various techniques in fluid dynamics (UGC sponsored) organized by B.S.N.V. Post Graduate College, Lucknow, Feb 10-12, 2011.
 - 13) Conference on Mathematics organized by Bharat Ganita Parishad and Department of Mathematics & Astronomy, University of Lucknow, Lucknow March 24, 2013.
 - 14) National Conference on role of Mathematics in Advancement of Science & Technology (NCRMAST-2013) organized by B.S.N.V. Post Graduate College, Lucknow October 18-20, 2013.
 - 15) National Seminar on Educational India-Capable India quality education for all organized by Department of Computer Science, University of Lucknow 17th Nov-2014.
 - 16) DGACON-2014, National conference on differential Geometry and its applications organized by Department of Mathematics, University of Allahabad, Dec 27-28, 2014.
 - 17) Bharat-Ganita-Parishad and Development of Mathematics and Astronomy University of Lucknow, Lucknow Nov 21st – 22nd Nov. 2015.
 - 18) Quality Enhancement under carrier advancement scheme on 7th July, organized by B.S.N.V. PG Collage, Lucknow.
 - 19) “Intellectual property Rights: Issues & Challenges” organized by IGNOU, 21st July 2015. University of Lucknow, Lucknow
 - 20) National Seminar on “Educated India –capable India: Quality Education for all”. 17th November,2014. Organized by Computer Science, University of Lucknow.
 - 21) Bharat-Ganita-Parishad and Development of Mathematics and Astronomy University of Lucknow, Lucknow Nov. 19th -20th ,2016.
 - 22) Bharat-Ganita-Parishad and Development of Mathematics and Astronomy University of Lucknow, Lucknow Nov. 10th-11th ,2018.
 - 23) Bharat-Ganita-Parishad and Development of Mathematics and Astronomy University of Lucknow, Lucknow Nov. 17th-18th ,2021.
 - 24) Bharat-Ganita-Parishad and Development of Mathematics and Astronomy University of Lucknow, Lucknow Sep. 24th-25th ,2022.

Workshops/Refresher/orientation and Short-Term courses:

1. Institutes of Physics, Bhubaneswar, India on Sep 10-11, 1997.
2. Orientation Programme from Sept. 1to28 ,2005 ASC Lucknow University.

3. Personality Development & Communication Skills, organized by UGC Academic Staff Collage, University of Lucknow March 11-17, 2011.
4. Refresher Course Jan. 1 to 23 2013. ASC University of Lucknow, Lucknow.
5. Refresher Course May 1 to 22 2013 ASC University of Lucknow, Lucknow.
6. Personality Development organized by UGC (HRDC), University of Lucknow August 22-28, 2015.
7. Assistant grade III-IV Nov.4 to 10 2016 UGC HRDC L.U.
8. Research Methodology June 15 to 21 2017 UGC HRDC L.U.
9. Women Empowerment August 24 to 30 2019 UGC HRDC L.U.
10. Educational Technology Nov. 22 to 28 2019 UGC HRDC L.U.

Delivered Lectures:

1. “Interpolation Processes on Infinite Interval”. Invited Lecture on UGC-Human Resource Development Centre, 18th January 2019 University of Lucknow.
2. “Interpolation process on Real line”. Invited Lecture on UGC-Human Resource Centre, 22nd Feb.2020 University of Lucknow.

Development of e- learning:

My YouTube channel is “Lucknow University Mathematics for UG and PG” has 125 videos.

LIST OF RESEARCH PUBLICATIONS

K.K. Mathur & Rekha Srivastava

1. Pal type Hermite Interpolation on infinite interval. J Mathematical Analysis and Application (USA) Vol. 192, 346359, 1195.

ISSN -0022-247X Impact factor – 1.151

UGC No. 24474

Rekha Srivastava & K.K. Mathur

2. Weighted (0; 0, 2)- Interpolation on the roots of Hermite Polynomials. Acta Math (Hungary), Vol. 70 (12) 5773, 1996.

ISSN. 0236-5294 IF- 0.479 Impact factor – 0.469

UGC No. 535

Rekha Srivastava & K.K. Mathur

3. An Interpolation process on the roots of Hermite polynomials. (0; 0, 1)- interpolations on Infinite interval. Bulletin of the institute of Mathematics Academia sinica vol.26, November 3, September 1998.

ISSN 2304-7909 Impact factor- 2.703.

K.K. Mathur & Rekha Srivastava

4. Weighted (0; 0, 1, 3)- Interpolation on the roots of Hermite polynomials Ann Univ Sci Budapest. Eotvos Sect. Math 40 (1997), 49-67.

ISSN – 0138-9491 Impact factor - 0.642

Rekha Srivastava

5. An Interpolation process on the roots of Hermite polynomials on Infinite Interval. American Journal of Engineering Research vol. 3 issue-10, pp. 75-83. Oct. 2014.

ISSN : 2320 – 0847 p – ISSN, 2320 – 0936

R. Srivastava

6. On lacunary interpolation through g – splines. International journal of innovative research in science, engineering and technology vol.4, issue-6, june 2015.pp4667-4670.

ISSN 2319-8753

UGC No. 48027

Rekha Srivastava & Geeta Vishwakarma

7. A new kind of weighted pal-type interpolation on laguerre polynomial. International journal of science and research vol. 4, issue 2 Feb 2015. pp 1797-1800.

ISSN: 2319-7064

R. Srivastava

8. A new kind of lacunary interpolation through g-splines. International journal of innovative research in science, engineering and technology vol.4 issue 8, 2015.pp 7783-7786.

ISSN 2319-8753

UGC No. 48027

R. Srivastava

9. A lacunary interpolation with splines degree six. International journal of Recent Scientific research. Vol.6, Issue 8 pp. 5824 -5826, 2015.

ISSN 0976-3031

UGC No. 46629

R. Srivastava

10. Error Bonds for splines of degree six. Asian Academic Research journal of multidisciplinary. Vol 2 Issue 6 Nov 2015. Pp 27-34.

ISSN: 2319-2801, Impact Factor- 2.015

UGC No. 44051

R. Srivastava

11. Quintic lacunary Interpolation Through g-splines. Asia Pacific journal of Research vol.1 issue xxxi, Sep 2015 pp: 197-201.

ISSN : 2320-5504, Impact factor- 0.472

UGC No. 45797

R. Srivastava

12. A study of lacunary Interpolation of degree five and six by g- splines. International journal of Recent Scientific Research. vol. 6 issue 11 Nov 2015. Pp 7202-7205.

ISSN: 0976-3031

UGC No. 46629

Rekha Srivastava & Geeta Vishwakarma

13. A new kind of weighted (0;0,2)- interpolation on laguerre polynomial. International journal of science and research vol. 4, issue 8 ,2015. Pp 850-853.

ISSN: 2319-7064

R. Srivastava

14. A study of lacunary interpolation. International journal of Advanced research . Vol.3 issue 8 pp 1087-1090, 2015.

ISSNO-2320-5407 Impact factor- 0.454

UGC No. 47231

R. Srivastava

15. A New kind of Lacunary interpolation by quintic splines. Asian Academic Research journal of multidisciplinary. Vol 4 Issue 9 Sep. 2017.pp 61-65.

ISSN: 2319-2801, Impact Factor- 2.015

UGC No. 44051

R. Srivastava

16. A New kind of spline interpolation. Asia Pacific journal of Research vol.1 issue LV, Sep 2017 pp: 93-97.

ISSN : 2320-5504, Impact factor- 0.472

UGC No. 45797

R. Srivastava

17. A New Kind of interpolation process with splines of degree six. International journal of innovative research in science, engineering and technology vol.6 issue 9, Sep. 2017. Pp. 17970-17973.

ISSN 2319-8753

UGC No. 48027

R. Srivastava

18. Interpolation process by g – splines. International journal of recent scientific research, Vol. 8 Issu, 9 ,pp. 20280- 20282 Sep. 2017.

ISSN-0976- 3031

UGC No. 46629

R. Srivastava & Geeta Vishwakarma

19. An Interpolation process on laguerre polynomial . Global Journal of Pure and Applied Mathematics Volume 13, Number 10(2017), pp. 7089-7099.

ISSN(P) 0973-1768 Impact factor- 2.38

UGC No. 47756

R. Srivastava & Geeta Vishwakarma

20. A Pal Type $(0,1;0)$ Interpolation Process on laguerre polynomail. International Journal of Mathematical Archive -8(9),2017,173-178.

ISSN : 2229-5046

UGC No. 47756

R. Srivastava & Geeta Vishwakarma

21. Convergence of interpolatory polynomials. Asia Pacific journal of Research Vol-I issue LV, September 2017. Pp 119-125.

ISSN No. 2320-5504 Impact factor- 0.472

UGC No. 45797.

R. Srivastava & Geeta Vishwakarma

22. An Interpolation Process on Weighted $(0,1,2;0)$ - Interpolation on Laguerre Polynomial. International Organisation of scientific Research journal of engineering. Vol-08 Issue 10 (October 2018), V(I)pp 07-13.

ISSN No. 2250-3021

UGC No. 48995

R. Srivastava & Geeta Vishwakarma

23. Weighted $(0,1,3;0)$ - Interpolation process on laguerre polynomial Accepted in Journal of Applied Science and Computations.

ISSN No. 1076-5131

UGC No. 41238

R. Srivastava & Yamini Singh

24. An Analysis of Interpolatory polynomials on finite interval. International Journal of Mathematics and its Applications. InJ.Math.And Appl., 6(1-E)(2018), 867-875.

ISSN No. 2347-1557 Impact Factor . 0.13

UGC No. 62807

R. Srivastava & Yamini Singh

25. An Interpolation Process on the Roots of Ultraspherical polynomials. Applications and Applied Mathemstics. An International Journal USA. Vol. 13 Issue Dec.2018. pp 1132-1141.

ISSN no. 1932-9466 Impact factor 7.835

UGC No. 47348. SCOPUS

R. Srivastava & Dhananjay Ojha

26. Wighted Interpolation Process on Roots of Hermite Polynomial. International Journal of Current Advanced Research. Vol 7 Issue 4(L) April 2018. Pp 12105-12109.

ISSN No. 2319-6475

UGC No. 43892

R. Srivastava & Yamini Singh

27. An Analysis of $(0,1;0)$ Interpolation Based On The Zeros Of Ultraspherical Polynomials. Bulletin of Transilvania University of Brasov. Vol. 12(61), No. 1-2019 Series III : informatics, Physics, 95-106.

ISSN No. 2065-2151 Impact factor 0.37

UGC NO. UGC CARE LIST "A" SCOPUS

R. Srivastava & Dhananjay Ojha

28. An Evaluation of Mixed Type Polynomial Approximation With Certain Condition On the Roots Of Hermite Polynomial. Malaya Journal Of Matermatik. Vol. 8 No. 2 ,551-555, 2020.

ISSN NO. 2321-5666 Impact factor 4.529

UGC NO UGC CARE LIST "B"

R. Srivastava & Yamini Singh

29. A $(0;02)$ Interpolation Method to Approximation funtions via ultraspherial polinomials. Journal of the Indian Math.Soc. Vol. 87 Nos. (3-4) 2020 ,276-288.

ISSN NO 2455-6475 Impact factor 0.19

UGC NO UGC CARE LIST " A " SCOPUS

R.Srivastava & Dhananjay Ojha

30. An Evaluation of Weighted polynomial Interpolation with certain conditions on the roots of Hermite Polynomial. Bulletin of Transilvania University of Brasov. Series III Mathematics and Computer Science

Vol. 1(63), No. 1- 2021, 209-220.

ISSN No. 2065-2151 Impact factor 0.37

UGC NO. UGC CARE LIST "A" SCOPUS

R. Srivastava & Yamini Singh

31. An Analysis of $(0,1,2;0)$ polynomial Interpolation including with interpolation on boundary points of interval $[-1,1]$. Bulletin of Transilvania University of Brasov. Series III Mathematics and Computer Science 2022 Vol. 2(64), No. 1-2022, 156-176.

ISSN No. 2065-2151 Impact factor 0.37

UGC NO. UGC CARE LIST "A" SCOPUS
