Resume

Department of Mathematics,
National Institute of Technology,
Hazratbal, Srinagar–190006 (J&K) INDIA.
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Prof. TANWEER JALAL
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SUMMARY

Ph.D. in Mathematics having more than Thirty years of Teaching Experience, working as a Professor in Mathematics, possessing strong problem solving techniques and communication skills.

TEACHINGINTERESTS

- Ordinary and Partial Differential Equations
- Numerical Methods
- Matrices
- Discrete Mathematics
- Real Analysis
- General Topology
- Differential and Integral Calculus

ACADEMICQUALIFICATIONS

Ph.D.(Mathematics)	AMU, Aligarh	1993
M. Phil.(Mathematics)	AMU, Aligarh	1990
M.Sc. (Mathematics)	AMU, Aligarh	1988

TEACHING EXPERIENCE

Department of Mathematics, National Institute of Technology, Srinagar.

Head **Nov 2021- Till date & July 16 , 2014-Nov 13 2017**

- Responsible for looking after the academic affairs of the Department
- Responsible for teaching courses: Numerical Analysis, Ordinaryand Partial Differential Equations, Differential Calculus, Matrices, Complex Analysis and Integral Transforms.
- Involved in conducting and Evaluating Examinations ofvarious Engineering Courses.
- Responsible for coordinating Engineering Mathematics Course and Ph.D Mathematics courses
- Member of Programme Assessment and evaluation Committee.
- Preparing, administering and grading assignments of students.

Department of Mathematics, National Institute of Technology, Srinagar.

Professor **March 2021-Till date**

Associate Professor **July 2011-Mar ch 2021**

- Responsible for teaching courses: Numerical Analysis, Ordinaryand Partial Differential Equations, Differential Calculus, Matrices, Complex Analysis and Integral Transforms.
- Prepared syllabus for M.Tech., (Civil&Mechanical) of Numerical Methods.
- Prepared syllabus for B.Tech., (IT&CSC) of Discrete Mathematics.
- Involved inconducting and Evaluating Examinations of various Engineering Courses.
- Responsible for coordinating Engineering Mathematics Course.
- Member of Programme Assessment and evaluation Committee.
- Preparing, administering and grading assignments of students.

Assistant Professor

- Responsible for teaching courses: Engineering Mathematics, Calculus-III,Calculus-II and Calculus-I.
- Involved in conducting and Evaluating Examinations of various Engineering Courses.
- Responsible for coordinating Engineering Mathematics Course.
- Member of Programme Assessment and evaluation Committee.
- Preparing, administering and grading assignments of students.

National Institute of Technology, Hazratbal,Srinagar, J&K,India.

July 2002–July 2011

Assistant Professor

- Responsible for teaching courses: Numerical Analysis, Ordinaryand Partial Differential Equations, Differential Calculus, Matrices, Complex Analysis and Integral Transforms.
- Prepared syllabus for M.Tech., (Civil&Mechanical) of Numerical Methods.
- Prepared syllabus for B.Tech., (IT&CSC) of Discrete Mathematics.
- Involved in conducting Examinations of B.Tech., M.Tech., and M.Phil Students.
- Designed and modified curriculum of various B.Tech.,Semesters.
- Involved in conducting Entrance Test for M.Phil./PhD., Programmein Mathematics.
- Supervising M.Phil., in Mathematics.
- MPhil's awarded under my supervision 3.
- Examination Incharge for Several years and also wasTimeTable Incharge.
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National Institute of Technology, Hazratbal, Srinagar, J&K, India.

July 1998–July 2002

Lecturer

- Responsible for teaching courses, Ordinary and Partial Differential equations, Differential calculus, Integral Transforms.
- Designed and modified Syllabus of various B.Tech, Semesters
- Involved in conducting and evaluating Examinations of various B.Tech., Semesters.

Department of Mathematics and Statistics, University of Kashmir, India.

June 1995–June 1998

Lecturer

- Responsible for teaching courses: Real Analysis, Differential Equations, General Topology, Metric Spaces and Group Theory.
- Involved in preparing syllabi of various courses taught at Under Graduate and Post Graduate level.
- Involved in conducting Entrance Examinations conducted by University of Kashmir.
- Preparing, administering and grading assignments of students.

Govt. Degree College Baramulla, J&K, India.

June1994–June1995

Lecturer

- Responsible for teaching various courses offered at Graduate level by Kashmir University and involved in conducting Examinations for Graduates.

Govt. Degree College, Handwara, J&K, India.

May1989–October1989

Lecturer

- Responsible for teaching various courses offered at Graduate level.

PUBLICATIONS

1. Tanweer Jalal and Asif Hussain Jan, Solution of an infinite system of third order fuzzy differential equations in sequence space c_0 and l_1 via measures of noncompactness and operator type contraction, Novi sad Journal Of Mathematics, 2023.
2. Tanweer Jalal and Asif Hussain Jan, Solution of Infinite System of Fourth order differential equation in lp space, Boletim da Sociedade Paranaense de Matematica, 2023.
3. Asif Hussain Jan and Tanweer Jalal, On Solvability of Volterra-Hammerstein Integral Equations in Two Variables Coordinatewise converging at Infinity, Operators and Matrices, 17(1), 187-211, 2023.
4. Asif Hussain Jan and Tanweer Jalal, On Structure and Statistical convergence of quaternion valued g-metric space, Boletim da Sociedade Paranaense de Matematica, 2023.
5. Asif Hussain Jan and Tanweer Jalal, Measures of Noncompactness on Omega-distance spaces, Communications in nonlinear analysis, 2023.
6. Tanweer Jalal,Topological properties of some sequences defined over n-normed, Proyecciones Journal of Mathematics, 2020 (Accepted).
7. Tanweer Jalal and Asif Hussain Jan, Measures of noncompactness in the Banach space BC(R+*R+,E) and its application to infinite system of integral equation in two variables, Filomat, 37(12), 3791-3817, 2023.
8. Tanweer Jalal, On I-convergent double sequence spaces defined by a compact operator and modulus function, Proc.Jang.Math.Soc., 21(4), 679 -687, 2018.
9. Tanweer Jalal & Ishfaq Ahmad Malik,Existence of solution fors ystem of differential equations in *c*o and *l*1 spaces, Afrika Matematika, (2020).
10. Tanweer Jalal,Some ideal convergent multiplier sequence spaces using DeleVallee Poussin means, Proyecciones Journal of Mathematics, 39 (1), 2020, 91-105.
11. Tanweer Jalal & Ishfaq Ahmad Malik,Infinite system of Integral Equations inTwo variables of Hammerstein Type in co and l1 spaces Filomat 33 (11), 3441-3455, (2019).
12. Tanweer Jalal & Ishfaq Ahmad Malik, I-convergent triple difference sequence spaces defined by a sequence of modulus functions, Journal of Nonlinear Analysis and Optimization,10(2), 49-55(2019).

13.Tanweer Jalal & Ishfaq Ahmad Malik, Measures of non-compactness in N(p,q) summable sequence spaces, Operators and Matrices, 13 (4), 1191-1205 (2019).

14. Tanweer Jalal & Ishfaq Ahmad Malik, Application of measure of noncompactness to infinite system of differential equations in ℓ p spaces, Rendiconti del Circolo Matematico di Palermo Series 2, (2020)

15.Tanweer Jalal & Ishfaq Ahmad Malik, Boundary value problems for an Infinite system of second order differential equations in lp spaces, Mathematica Bohemica (2019).

16. Tanweer Jalal & Ishfaq Ahmad Malik, Measures of Non-Compactnessin $\left(\overline{N}_{\Delta^-}^{q}\right)$ summable Difference Sequence Spaces, Journal of Mathematical Extension, 13(4),155-177, (2019).

17. Tanweer Jalal & IshfaqAhmad Malik, Measures of Non-compactness in Nq Delta summable difference sequence spaces,Filomat 32 (15), 5459-5470, (2018) .

18. Tanweer Jalal & IshfaqAhmad Malik,Some new triple sequence spaces over n-normed space, Proyecciones Journal of Mathematics 37(3), 547-564, 2018

19. Tanweer Jalal & IshfaqAhmad Malik, I-Convergent Triple Sequence Spaces over n-normed spaces, Asia Pacific Journal of Mathematics, 5(2), 233-242, 2018.

20. Tanweer Jalal & IshfaqAhmad Malik,I-convergence oftriple difference sequence spaces over n-normedspace,Tbilisi Math. Journal, 11(4) ,93-102, 2018.
21. TanweerJalal, A note on fuzzy multi-ordered difference sequence spaces,Filomat 32(8), 2867-2874, (2018).
22. Tanweer Jalal, Some new Lacunary sequence spaces of Invariant means defined by Muselik-Orlicz functions on n-normed space, IJPAM 119(2), 1-11,2018.
23. Tanweer Jalal,On some new generalized difference sequence spaces defined by a modulus function, Jour. Math. & computer Sci., 15, 78-87, 2015.
24. Tanweer Jalal & Reyaz Ahmad, A New Generalized Vector –Valued Paranormed Sequence Space Using Modulus Functions, Malaya J.Math., 3(1),110–118,2015.
25. Tanweer Jalal, A New-Generalized Sequence Spaces Defined by Ideal Convergence and a Sequence of Modulus Functions on Multiple Normed Spaces, Int. J. Open Problems Comp. Math., 8(1), 44- 53, 2015
26. Tanweer Jalal &M.A.Syed, Some new sequence spaces defined by Muselik-Orlicz functions on a real n-normed space, General Mathematics Notes, 27(2), 47-58, (2015).
27. Tanweer Jalal,SomeNewI-ConvergentSequenceSpacesDefinedByusingSequenceofModulus Functionsinn-Normed Spaces,Int. J. Math. Archives, 5(9), 202-209, 2014.
28. Tanweer Jalal,Some new sequence spaces defined by modulus,NFAA,18(2),269-277,2013.
29. Neyaz Ahmad Sheikh Tanweer Jalal & Ab. Hamid Ganie, New type of sequence spacesof non-absolutetypeandsomematrixtransformations,Acta.Math.Acad.Paed.Nyrgh.,29,51-66,2013.
30. Tanweer Jalal &Reyaz Ahmad Rather, A new type of difference Sequence Spaces, Thai Journal of Mathematics, 10 (1),147-155,2012.
31. Tanweer Jalal,S.A.Gupkari &A.HGanie,Infinite matrices and σ–convergent sequences, SEABM, (Springer)36 , 825-830 , 2012.
32. Tanweer Jalal l&Z.U.Ahmad, A new sequence space and matrix transformations,Thai Journal of Mathematics, 8 (2) ,365-373, 2010.
33. Tanweer Jalal,New sequence spaces in multiple normed spaces through Lacunary sequences, Int.Bull. Math. Res., 2(1), 173-179, 2015.
34. Tanweer Jalal,New sequence spaces defined by ideal convergence and a sequence of modulus functions on multiple normed space, IJMMS, 12 (3), 157-164,2014.
35.Tanweer Jalal, Some matrixtransformations of l(p,u) intothespaces ofInvariant means, IJMMS 13(4), 385-391, 2015.
36. Tanweer Jalal &Sameer AhmadGupkari,Generalized p-bounded variation sequences and matrix Transformations, Int.J. Appld. Math.Appl., 2(2), 91-97, 2010.
37. Tanweer Jalal & Z.U.Ahmad, A note on certain sequence space of Non-absolute type,J.Int.Acad. Phy. Sci.,14(3), 323-329, 2010.
38. Tanweer Jalal , Invariant means and matrix transformations, SEAJMMSC.8(1),101-105, 2009.
39. Tanweer Jalal and A.H.Ganie, Almost convergence and some matrix transformations, Int.J.Math.,Vol. 1, 133-138,2009.
40. Tanweer Jalal, Absolute σ–almost convergence with an Index, Pure and Applied Mathematika Sciences, Vol. LIX, No. 1 – 2, 63 – 70, 2004.
41. Tanweer Jalal, Matrix equences on $\ell(p,s)$, Pure and Applied Mathematika Sciences,Vol.LVI, No. 1– 2, 77-83 , 2002.
42. Tanweer Jalal and Z.U.Ahmad, Invariant means and matrix transformations, Pure and Applied Mathematika Sciences,Vol.LI,No.1-2,69-73,2000.
43. Tanweer Jalal and Z.U.Ahmad, Matrix transformations of Sequences of σ –bounded variations, Aligarh Bulletin of Mathematics, Vol. 17, 1997 – 98.

BOOK CHAPTERS

1. Some New I-Lacunary Generalized Difference Sequence Spaces in n-Normed Space. Modern Math. Methods and High Perf. Computing in Sci. & Technology,Springer, 2016
2. Tanweer Jalal,Some Sequence Spaces defined by A Modulus function "Modern Methods in Analysis and its Applications , editor (Mursaleen) Anamaya Publishers, New Delhi,2010.

PAPERSPRESENTEDATCONFERENCES

1. Presented a paper entitled "Topological properties of some sequence defined over n-normed space" during during 2nd International Conference on Modern Mathematical Methods and High Performance Computing in Science and Technology, IPEC Ghaziabad UP, January 2020.
2. Presented a paper entitled"Topological properties of some sequence defined overn-normed space" during International Workshop and Conference on Topology & Applications Rajagiri School of Engineering, Kochi, India, December 2018.
3. Presented a paper entitled "On lacunary Convergence of some sequence spaces "during Ist International Conference on New Frontiers in Engineering, Science & Technology, Delhi Technological University, New-Delhi, January 2018.
4. Presented a paper entitled "On I-convergent double sequence spaces defined by a compact operator and modulus function" during 2nd International Conference on Modern MathematicalMethods and High Performance Computing in Science and Technology, IPECGhaziabad UP,January 2018.
5. Presented a paper entitled "Generalized difference sequence spaces defined by[N,pk] summablilty and orlicz functions in semi-normed spaces" during International conference on Innovative Approach in Applied Physical, Mathematical/Statistical, Chemical Sciences and Emerging Technology for Sustainable Development, JNU New Delhi, 2017.
6. Presented a paperentitled "On some multiordered difference sequence spaces of fuzzy real numbers defined by ideal convergence and modulus function" during International conference on Differential Geometry,Analysis & Algebra, JMI New Delhi 2016.
7. Presented a paper entitled "Some new A I-lacunarygeneralized difference sequence spaces in n-normed spaces" during International Conference on Recent Trends in Engineering and Material Sciences " Jaipur National University, March 2017.
8. Presented a paper entitled "Some new A-lacunarygeneralized difference sequence spaces in n-normed space" during International Conference on Modern Mathematical Methods and High Performance Computing in Science and Technology, Ghaziabad UP, December 2015.
9. Presented a paper entitled "Zweier I-convergent sequence spaces defined by modulus functions "during International conference on Analysis and its Applications,AMU, Aligarh, December 2015.
10. Delivered a talk on "Some Lacunary sequence spaces of invariant means defined by means of Muselik-orlicz functions on n-normed space "during International conference on Function Spaces and Inequalities, South Asian University, NewDelhi, December2015.
11. Presented a paper entitled "Ongeneralized A-difference strongly summable sequence spaces defined by ideal convergence on a real n-normed space" during International conference onCurrent Developmentsin Mathematics and Mathematical Sciences, Calcutta Mathematical Society, Kolkata December 2014.
12. Presented a paper entitled" Some matrix transformations of l(p,u) into the space of invariant means" during International conference on Recent Trends in Algebra and Analysis withApplications ,AMU Aligarh, November 2014.
13. A note on certain sequence spaces of a non-absolute type "Presented at XI-International Conference of the International Academy of Physical Sciences, Organized by Institute ofInterdisciplinary Studies, University of Allahabad from Feb. 20-22,2010.
14. Some λ-sequence spaces defined by modulus function, Presented at International Conference on

"Challenges and Applications of Mathematics in Science and Technology" NIT, Rourkela from Jan. 11-13, 2010.

15. Some Sequence Spaces defined byA Modulus function" Presentedat International Conference on "Analysis and Applications "Organized by Department of Mathematics, AMU Aligarh from Nov. 3-5,2008.
16. Infinite matrices and σ – convergent sequences" , 9th National Conference of Indian Society of Information Theory and applications in collaboration with Mathematika Science Society of India on Information Theory and Operational Research Applications, Delhi, December 2007.
17. Matrix Transformations of Sequences of σ-BoundedVariation" 6thAnnual Conference of Jammu Mathematical Society (JMS), Department of Mathematics, Jammu University, Feb.16-18, 1996.
18. Matrix Transformations between Generalized Cesaro Sequence Spaces" presented during Conferenceon Fourier Analysis,Approximation Theory and their Applications, Sept.6 -9,1993, organized by the Department of Mathematics, AMU-Aligarh.

CONFERENCES/WORKSHOPSATTENDED

1. 57th Annual Conference of the Indian Mathematical Society for December 27–30,1991 held at Department of Mathematics, AMU, Aligarh.
2. Participated in General Orientation Course organized by UGC-ASC University of Kashmir from August 01, 1996 for four weeks.
3. Attended 5th Refresher Course in Mathematics organized by UGC-ASC Jamia Millia Islamia University from January 20 – February 8, 2003.
4. Attended workshop on "Science and Society Programme" organized by NIT, Srinagar from June 13 – 14, 2005.
5. Participated inWorkshop and International Conference on "Scientific Computation, Numerical Analysis and Applications" at Department of Mathematics, IISc Bangalore from July 04 – 21, 2005.
6. Attended 2ndJ &K Science Congress organized by University of Kashmir from July 25–27, 2006.
7. Participated in short term training Programme on"Computational Fluid Dynamics" organized by Department of Mathematics and Humanities, NIT Warangal from January 15 – 19, 2007.
8. Attended one-day workshop on "Nanotechnology: Present and FutureHorizons" organized by Department of Chemistry, NIT Srinagar on September 8, 2007.
9. Attended one day workshop on "Microelectronics" organized by Department of Electronics and Communications NIT-Srinagar on Nov.5, 2007.
10. Attended one day workshop on "Intellectual Property Rights" organized by Department of Humanities, NIT, Srinagar on April 9, 2008.
11. Attended an International conference on "Analysis and Applications" organized by Department of Mathematics, Aligarh Muslim University, Aligarh from November 3-5, 2008.
12. Attended MHRD sponsored Winter School on "Probability, Statistics and Optimization Methods and Applications" Organized by Department of Mathematics, NIT-Durgapur from January 19-31, 2009.
13. Attended an International workshop on "NEW DIRECTIONS IN APPLIED MATHEMATICS" organized by ICTS, IISC-Bangalore from Jan. 01-03, 2010.
14. Attended an international workshop on "Solving Nonlinear Polynomial Equations" organized by Department of Mathematics IISC Bangalore from June 07-19, 2010.
15. Attended One week workshop on"Learning and Teaching Methods" at Yanbu Industrial College, Yanbu, Kingdom of Saudi Arabia from June 18-22, 2011.

OTHERPROFESSIONALACTIVITIES

- Moderator and Guest Speaker for a three week Refresher Coursefor Mathematics School Lecturers organized by Centre for Adult and Continuing Education, Kashmir University, February 1997.
- Acted as a Resource person for Refresher Course for Mathematics Lecturers organized by State Institute of Education, Srinagar from 31-01-2001 to 22-02-2001.

- Prepared manuscripts on Real Analysis, Metric Spaces and GeneralTopology for Centre of Distance Education, University of Kashmir.

AWARDS

I was awarded Junior Research Fellowship (JRF) from 20-02-1992 to 31-08-1992 and Senior Research Fellowship (SRF) from 01-09-1992 to 09-05-1994 by Aligarh Muslim University, Aligarh during my Ph.D. Programme.

ADMINSTRATIVE POSITIONS HELD

1. Head Department of Mathematics July 2014-Nov.2017. & Nov 2021-Till date
2. Warden Jehlum Hostel from March 2010 to September 2010.

REFEREE

Referee of many International Journals

Ph.D Supervision

1. Ishfaq Ahmad Malik (Ph.D) Measures of Noncompactness in Banach Spaces 2019.

M.Phil Supervision

1. Reyaz Ahmad Rather Difference Sequence spaces (2012).

2. Abdul Hamid Ganie Matrix transformations in Sequence Spaces (2011).

3. Sameer Ahmad Gupkari Matrix transformations in sequence Spaces (2008)

Membership

1. Indian Mathematical Society.

2. Ramanujan Mathematical Society.