

SCHOOL OF MATHEMATICS

Extension Lectures Delivered by Outside Experts/Outside Faculty in the School and in-house Faculty outside School/University (2024-2025):

Sl. No	Name of the Faculty	Title of the seminar/conference and dates & year	Title of the Talk	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker	National/ International (abroad)/ International (within the country)/ State/University
1	Dr. Rakesh Kumar	National Conference on Mathematical Sciences and Applications, 17-18 January, 2025	Modelling of Telecommunications using Queuing Theory	Department of Mathematics and Physics, SPPND Govt. Degree College, Samba, J&K, India	Invited Lecture	National
2	Dr. Rakesh Kumar	International Conference on Innovative Trends in Statistics, Optimization and Data Science, 21-23 December, 2024.	Applications of Queuing Theory	Department of Statistics and Operational Research, K.U. Kurukshetra and Indian Society for Probability and Statistics	Invited Lecture	International (Within the country)
3	Dr. Rakesh Kumar	International Conference on Innovative Trends in Statistics,		Department of Statistics and Operational	Session Chair	International (Within the country)

		Optimization and Data Science, 21-23 December, 2024.		Research, K.U. Kurukshetra and Indian Society for Probability and Statistics		
4	Dr. Rakesh Kumar	Pre-Conference Workshop: Empowering Health Care Professionals: A Next Level Skill, 12 th February, 2025	Data Analysis using Excel with AI	Shri Mata Vaishno Devi College of Nursing, Kakryal, Katra, J&K	Resource Person	National
5	Dr. A. K. Das	International Conference on Advances in Mathematics and its Applications 2024 (ICAMA 2024)” at Imphal organized by Manipur University during 6-7 December 2024	A Factorization of Compactness Via a Generalization of Regularity	Manipur University	Invited Lecture	International (within the country)
6.	Dr. A. K. Das	International Conference on Advances in Mathematics and its Applications 2024 (ICAMA 2024)” at Imphal organized by Manipur University during 6-7 December 2024		Manipur University	Chaired a session	International (within the country)

7.	Dr. Vivek Kumar	8 th International Hybrid Conference on Mathematical Advances and Applications May 07-09, 2025	Difference Cesaro Function Spaces on Rooted Tree	ICDMAA, Istanbul, Turkey	Talk	International (Abroad)
8.	Dr. Sandeep Sharma	8 th International Hybrid Conference on Mathematical Advances and Applications May 07-09, 2025	Geometric Analysis of Darboux Osculating curves on smooth surfaces under isometric transformations	ICDMAA, Istanbul, Turkey	Talk	International (hybrid)
9.	Vijay Kumar Bhat	International Conference on Mathematics and Applications (ICMA-2024), December 13-15, 2024	On Some Topological Indices for the Orbit Graph of Dihedral Group	Kathmandu University, Nepal	Invited Lecture	International (abroad)
10.	Dr. Rakesh Kumar	International Conference on Empowering Sustainability through Science, Engineering and Technology, 20-21 March 2025.	Empowering Sustainability using Queuing Theory	Department of Applied Sciences, School of Engineering and Technology, Manav Rachna International Institute of	Keynote speaker	International (within India)

				Research and Studies (Deemed to be university)		
11.	Dr. Sunil K Sharma	8th International hybrid Conference on Mathematical Advances and Applications	Analysis of Convergence Properties in (α, β) -Order Set Sequences	ICDMAA, Istanbul, Turkey	Talk	International (hybrid)

Research Publications (with full details in below format) for 2024-2025:

For paper (2024-2025):

Sl. No.	Name of Author, if more than one, then: 1. Author 2. Author 3. Author 4. Author, likewise	Title of paper	Name of the Journal: ISSN No.: Dol: (ISSN or Dol)	Volume: Issue No.: Year: Page Nos.:	Specify: Peer-reviewed/ UGC / SCOPUS Impact factor: (if available)
1.	Kuldip Raj and Sonali Sharma	On Almost Deferred Weighted Convergence	Journal of applied mathematics & informatics ISSN: 2734-1194 https://doi.org/10.14317/JAMI.2024.245	42(2), 2024, 245-256.	ESCI

2.	Kuldip Raj and Manisha Devi	Generalized weighted composition operators acting between Dirichlet-type spaces and Bloch-type spaces	International Journal of Nonlinear Analysis and Applications ISSN: 2008-6822	16(1), 2025, 1-10.	SCOPUS
3.	Kuldip Raj and SamratiGorka	Lacunary A-Statistical Convergence of Complex Uncertain Sequences via Orlicz Function	International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems ISSN : 0218-4885 https://doi.org/10.1142/S0218488524500193	32(5), 2024, 781-799	SCIE, IF: 1.0
4.	Kuldip Raj, Manisha Devi	New product type operators acting between weighted Bergman-Orlicz spaces and some weighted-type spaces	The Journal of Analysis ISSN: 0971-3611 doi.org/10.1007/s41478-024-00751-2	32, 2024, 2299-2327	ESCI
5.	Seema Jamwal, Sonali Sharma, Kuldip Raj, Sunil K Sharma	Orlicz Extension of New Sequence Spaces Engendered by the Composition of Binomial Matrix and	International Journal of Analysis and Applications ISSN: 2291-8639 doi.org/10.28924/2291-8639-22-2024-177	22, 2024, 177	SCOPUS

		Double Band Matrix			
6.	Sonali Sharma, Kuldip Raj, Sunil K Sharma	Applications of strongly deferred weighted convergence in the environment of uncertainty	International Journal of Analysis and Applications ISSN: 2291-8639 doi.org/10.28924/2291-8639-22-2024-181	22, 2024, 181	SCOPUS
7.	Kuldip Raj, DeviaNarrania	Modulated Lacunary - PStatistical Convergence of Order α of Sequences of Fuzzy Functions	New Mathematics and Natural Computation ISSN: 1793-0057 doi.org/10.1142/S1793005724500479	20(3), 2024, 1-13	ESCI
8.	Kuldip Raj, DeviaNarrania and Sunil K Sharma	Decision-making on deferred statistical convergence of measurable functions of two variables	Contemporary Mathematics ISSN: 4132-6581 doi.org/10.37256/cm.5420245513	5, 2024, 5519-5533	ESCI
9.	Kuldip Raj, Navneet Kour and UdayPratap Singh	Adaptive neural finite-time control for nonlinear switched systems featuring sensor hysteresis and unknown	International Journal of Control ISSN: 0020-7179 https://doi.org/10.1080/00207179.2025.2506590	2025, 1-15 •	SCIE, IF: 1.6

		actuator dead zone			
10.	Kuldip Raj and SamratiGorka	Lacunary statistical convergence of uncertain fuzzy number sequences via Orlicz function	Mathematical Foundations of Computing ISSN: 1029-242X	65, 2025, 1- 17	ESCI
11.	Kuldip Raj and Devia Narrania	λ-statistical convergence of double sequences of functions via difference operators	AnnalesUniversitatis PaedagogicaeCracov iensisStudia Mathematica ISSN: 2081-545X https://doi.org/10.2478/aupcsm-2024-0006	23, 2024, 47- 60.	ESCI
12.	Kuldip Raj and Samrati Gorka	Deferred Riesz statistical convergence via power series method	Journal of Applied Mathematics and Computing ISSN: 1598-5865 https://doi.org/10.1007/s12190-024-02283-1	71, 2024, 1141–1158	SCOPUS
13.	Kuldip Raj, Sunil K Sharma and Sanjeev Verma	Decision- Making on a Common Equilibrium Marketing Fixed-Point Theorem for Two and Three Meir- Keeler	International Journal of Analysis and Applications ISSN:2291-8639	23, 2025, 1-7.	SCOPUS

		Condensing Supply Mappings in Banach Space			
14.	Kuldip raj and DeviaNarrania	Rieszlacunary uniform integrability and statistical convergence via power series method	Journal of Inequalities and Applications ISSN:1025-5834	65, 2025, 1-17	SCIE, IF: 1.8
15.	Yousef Al-Qudah, Ali Jaradat , Sunny Kumar Sharma and Vijay Kumar Bhat	Mathematical analysis of the structure of one-heptagonal carbon nanocone in terms of its basis and dimension	Phys. Scr. ISSN:0031-8949	99(5), 2024, 055252	SCOPUS
16.	Vijay Kumar Bhat, Malkesh Singh , Karnika Sharma , Maryam Alkandari ² and Latif Hanna	On the Laplacian Energy of an Orbit Graph of Finite Groups	Utilitas Mathematica ISSN : 0315-3681	19(1), 2024, 9-16	SCOPUS
17.	Malkesh Singh , Sohan Lal , Sunny Kumar Sharma and Vijay Kumar Bhat	Edge dependent fault-tolerance in certain carbon-based crystal structures	Phys. Scr. ISSN:0031-8949	99(8), 2024, 085224	SCOPUS

18.	Sunny Kumar Sharma, and Vijay Kumar Bhat	Some Convex Polytopes Joining Paths and Their Metric Dimension	Journal of Combinatorial Mathematics and Combinatorial Computing ISSN:0835-3026	20, 2024, 177–190	SCOPUS
19.	Malkesh Singh and Vijay Kumar Bhat	On Hendecagonal Circular Ladder and its Metric Dimension	International Journal of Computer Mathematics: Computer Systems Theory ISSN:2379-9927	9(3), 2024, 202–210	SCOPUS
20.	S. K. Sharma, Vijay. Kumar Bhat	Some Planar Graphs with Ten-Sided Faces and Their Metric Dimension	TWMS J. App. and Eng. Math ISSN:2587-1013	14(2), 2024, 834–845	SCOPUS
21.	Shriya Negi, Vijay Kumar Bhat	Face Index of Silicon Carbide Structures: An Alternative Approach	Silicon DOI: 10.1007/s12633-024-03119-0	6(16), 2024, 5865–5876	SCOPUS
22.	Vijay Kumar Bhat, Pradeep Singh	On Diameter and Girth of Product of Zero-Divisor Graphs	TWMS J. App. and Eng. Math ISSN:2587-1013	14(3), 2025, 921–933	SCOPUS
23.	Sahil Sharma, Vijay Kumar Bhat, Malkesh Singh	Vertex-Based Resolvability Parameters for some Families of	Discrete Math. Algorithms Appl. https://doi.org/10.1142/S1793830925500235	2025, 1-12	SCOPUS

		Convex Polytopes			
24.	Shriya Negi & Vijay Kumar Bhat , , Phosphorus, Sulfur, and Silicon and the Related Elements (2025),	On carbon nanocones $C_{n}C_{m}$ and their face index	Phosphorus, Sulfur, and Silicon and the Related Elements https://doi.org/10.1080/10426507.2025.2456205	200(2), 2025, 144-151	SCIE, IF: 1.6
25.	Shriya Negi, Jai Parkash and Vijay Kumar Bhat , , (2025). DOI: 10.1080/00397911.2025.2509114	Face index computation of certain polycyclic aromatic hydrocarbons	Synthetic communications https://doi.org/10.1080/00397911.2025.2509114	55(12), 2025, 916-930	SCIE, IF: 1.8
26.	Shriya Negi & Vijay Kumar Bhat , , Silicon (2025)	ev-degree and ve-degree based Topological Indices of Silicon Carbide Structures	Silicon https://doi.org/10.1080/07/s12633-025-03299-3	17, 2025, 1873-1890	SCIE, IF: 3.3
28.	Surender Singh, Anjali Sharma	Novel similarity measure for interval-valued intuitionistic trapezoidal fuzzy numbers	International Journal of Information Technology https://doi.org/10.1007/s41870-024-02301-2	17(4), 2025, 2049-2066.	SCOPUS
29.	Koushal Singh, Surender Singh	Pattern recognition and image	Journal of Experimental &	37(8), 2025, 1453-1480	SCIE, IF: 1.7

		segmentation based on some novel fuzzy similarity measures.	Theoretical Artificial Intelligence https://doi.org/10.1080/0952813X.2024.2440662		
30.	Surender Singh ,Koushal Singh	Novel construction methods for picture fuzzy divergence measures with applications in pattern recognition, madm, and clustering analysis.	Pattern Analysis and Applications https://doi.org/10.1007/s10044-024-01383-9	28(2), 2025, 46	SCIE, IF: 2.0
31.	Sandeep Sharma, Kuljeet Singh, Yingxin Cheng	Conformal Interactions of Osculating curves on regular surfaces in Euclidean 3 space	Mathematics https://doi.org/10.3390/math13050881	13(5), 2024, 1-12	SCIE, IF: 2.2
32.	Sandeep Sharma, Kuljeet Singh, A.A. Shaikh, PushpinderBadyal	Invariant Nature of Darboux Normal Curves on a smooth surface under isometry	Filomat ISSN NO: 2406-0933	38(29), 2024, 10485–10494	SCIE, IF: 0.9
33.	Sandeep Sharma, Kuljeet Singh,, Pushpinder Badyal	Characterizations of rectifying curves under conformal	Asian European Journal of Mathematics ISSN: 1793-7183	18(1), 2025, 2450095	SCOPUS

		transformations using Darboux frame in Euclidean 3-space			
34.	Sandeep Sharma, Kuljeet Singh,, PushpinderBadyal	Behaviour of spatial curves under different transformations in Euclidean 4-space	Demonstratio Mathematica ISSN: 2391-4661	58, 2025, 1-14	SCIE, IF: 1.6
35.	Sandeep Sharma, SimranKharka, UdayPratap	Adaptive global Asymptotic control for time varying complex system with input saturation under prescribed performance constraints	Circuits, Systems and signal processing ISSN: 2199-4536 / 2198-6053	44, 2025, 6494-6522, 2, (2025)	SCIE, IF: 2.0
36.	Vijay Kumar Bhat, Muhammad Azeem, Manikonda Gayathri, Bandar Almohsen	Computation of mixed resolvability for a circular ladder and its unbounded nature	Plos One https://doi.org/10.1371/journal.pone.0313788	20(3), 2025, e0313788	SCOPUS
37.	Sandeep Kumar, Sahil Sharma, and Vijay Kumar Bhat	On metric dimension of generalized subdivision prism graph	Ain Shams Engineering Journal https://doi.org/10.1016/j.asej.2025.103452	16(8), 2025, 103452	SCOPUS

38.	Malkesh Singh and Vijay Kumar Bhat	On Strong Metric Dimension of Cubic Carbon Crystal	International Journal of Applied and Computational Mathematics https://doi.org/10.1007/s40819-025-01893-y	11, 2025, 82.	SCOPUS
39.	Vijay Kumar Bhat	Fault-tolerant Resolvability of Double Antiprism and Its Related Graphs	Annals of the University of Craiova, Mathematics and Computer Science Series ISSN: 1223-6934	52(1), 2025, 170-186	SCOPUS
40.	Archana Bengeri, Venkatesh P.S, and Prasanna Poojary Sunny Kumar Sharma	On multiset dimension of extended kayak paddle graph	International Journal of Computer Mathematics: Computer Systems Theory https://doi.org/10.1080/23799927.2025.2508849	10(1-2), 2025, 95-116	SCOPUS
41.	Venkatesh P. S., Archana Bengeri, and PrasannaPoojary, Sunny Kumar Sharma	On metric dimension of $h_{s \times p}$ hellebores flower graph	Discrete Mathematics, Algorithms and Applications https://dx.doi.org/10.1142/S1793830925501010	2025, 2550101	SCOPUS
42.	Ria Gupta, A. K. Das	On two types of closure operators	International journal of Computer Mathematics:	9(4), 2024, 220-232	SCOPUS

		associated with networks	Computer Systems Theory https://doi.org/10.1080/23799927.2024.2409118		
43.	Sharma Bhanu, Kumar Vivek , Sharma Mehak	Sandwich Weighted Composition operators between Weighted Bloch Spaces.	Contemporary Mathematics ISSN : 0271-4132	6(4), 2025, 1-12	SCOPUS
44.	R. Kumar, S. K. Sharma, A. K. Sharma and M. Mursaleen	On q-Fibonacci Cesàro sequence spaces by using band matrix	Iranian Journal of Science ISSN : 2731-8109	49(1), 2025, 201–208	SCIE, IF: 1.4
45.	Q. B. Cai, R. Kumar, S. K. Sharma and A. K. Sharma	Lucas difference sequence spaces defined by Orlicz function in 2-normed spaces	Demonstratio Mathematica ISSN: 2391-4661	58(1), 2025, 1-13	SCIE, IF: 1.6
46.	M. M. Mohammed, S. K. Sharma, M. Magzoub, R. Kumar, A. K. Sharma, H. S. Mahgoub, A. A. Gouni, A. A. Bakery	Wijsman asymptotically ideal statistical sequences of order (\hat{a}, \hat{a}) under decision making	Journal of Mathematics and Computer Science ISSN : 2008-949X	38(3), 2025, 330–340	ESCI

47.	S. K. Sharma, Ravi Kumar, A. K. Sharma, A. O. Mohamed, H. S. Mahgoub, A. A. Gounid, A. A. Bakerye	Decision Making on Statistical Convergence of Sequences of Sets of Order (α, β)	Contemp. Math. ISSN : 0271-4132	6(3), 2025, 2987-3003	ESCI
48.	L. T. Su, R. Kumar, S. K. Sharma, Ajay K Sharma and Qing-Bo Cai	I-convergence sequence paranormed spaces of order (α, β)	AXIOMS ISSN : 2075-1680	13(9), 2024, 626	SCIE, IF: 1.6
49.	Ravi Kumar, S. A. Mohiuddine, S. K. Sharma and Ajay, K Sharma,	Asymptotically Wijsmanlacunary sequences of Orlicz function	Honam Mathematical Journal ISSN : 2288-6176	46, 2024, 485-499	SCOPUS
50.	Ravi Kumar, S. K Sharma and Ajay K Sharma	Asymptotically WijsmanLacunary Sequences of Order (α, β)	The Journal of Analysis ISSN : 0971-3611	32(4), 2024, 2037-2055	ESCI

**Conferences/Workshops/Seminars/Short term Courses/FDP/MDPs/Attended/Presented
(2024-2025)**

Sl. No	Name of the Faculty	Title of the Seminar/Conference/Workshop and Dates & Year	Title of the Talk (if presenter)	Organizing agency	Invited lecture/Resource person/Key note speaker/Panel presenter/Plenary speaker Or Simply Attended	National/International (abroad)/International (within the country)/State/University
1.	Dr. A. K. Das	6-days Short term Training Program on Mathematical Method during 14-19 October 2024	Spaces Generated from Binary Relations	MMTTC-SMVDU	Invited Lecture	National
2.	Dr. A. K. Das	National Workshop cum Conference on Algebra, Analysis, Topology and Applications -2025 during 3-4 March 2025	--	SMVDU	Chaired a session	National

3.	Dr. Sandeep Sharma	A National Seminar on Recent trends in Analysis and Allied Areas & 31th Annual conference of the Jammu Mathematical Society	Some characterization of normal curves under isometry using Darboux frame in Euclidean 3-space	Department of Mathematics, University of Jammu	Paper presentation	National
4.	Dr. Surender Singh	NEP Orientation & Sensitization Program (10-19 February 2025)	Holistic and multidisciplinary education: shaping The future of learning	UGC-MMTC, SMVDU	Resource Person	National
5.	Dr. Surender Singh	Faculty Induction Programme (17 th Feb-19 th March 2025)	Integrating Sustainable Development Goals In Higher Education: Pathways To A Sustainable Future	UGC-MMTC, SMVDU	Resource Person	National
6.	Dr. Sunny Kumar Sharma	National Workshop cum Conference on Algebra, Analysis, Topology	On dimension of graphs	SoM, SMVD University	Paper Presenter	National

		and Applications (NWCCAATA -2025)				
7.	Dr. Sunny Kumar Sharma	Workshop on Inculcating Universal Human Values in Technical Education	Inculcating Universal Human Values in Technical Education	All India Council for Technical Education (AICTE) at Shri Mata Vaishno Devi University, Katra	Attended	National
8.	Dr. Sunny Kumar Sharma	Faculty Induction Programme	MMTTP Faculty Induction Programme	Shri Mata Vaishno Devi University, Katra	Attended	National
9.	Dr. Vivek Kumar	Faculty Induction Programme	MMTTP Faculty Induction Programme	Shri Mata Vaishno Devi University, Katra	Attended	National
1.	Dr. Vivek Kumar	National Conference on Mathematical Sciences and Applications , 17-18 January, 2025	New sequence spaces of Euler mean over modulus function	Department of Mathematics and Physics, Shri Pandit Prem Nath Dogra, Government Degree	Paper Presentation	National

				College, Samba		
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Conferences/ Seminars /Workshops/FDPs/MDPs Organized (2024-2025)

Sl. No	Title of the Seminar/Conference/ Workshop/Etc. and Dates & Year	Organiser's Name	Role	Organizing agency	National/ International / Regional
1.	National Workshop cum conference on Algebra, Analysis, Topology and Applications, 3-4, 2025 (NWCCAATA-2025)	Dr. Rakesh Kumar	Coordinator	SMVD University(Under PM-USHA Scheme)	National
2.	Short Term Training Program on Mathematical Methods, 14-19, October 2024	Dr. Surender Singh	Coordinator	UGC-MMTTC, SMVDU	National
3.	NEP Orientation & Sensitization Program, 10-19 January 2025	Dr. Surender Singh	Coordinator	UGC-MMTTC, SMVDU	National
4.	Two-Days Workshop on Accreditation Procedure & Ranking in HEIs, 28Feb. to 1st March 2025	Dr. Surender Singh	Coordinator	UGC-MMTTC, SMVDU	Regional
5.	National Workshop cum conference on Algebra, Analysis, Topology and Applications, 3-4, 2025 (NWCCAATA-2025)	Dr. Sandeep Sharma	Coordinator	Smvd University(Under PM-USHA Scheme)	National
6.	National Workshop	Dr. Sunny Kumar Sharma	Organizing Secretary	SoM, SMVD University	National

	cum Conference on Algebra, Analysis, Topology and Applications, 3-4, 2025 (NWCCAATA-2025)				
7.	National Workshop for the students of Value-Added Course Community Engagement and Social Responsibility (UBA)	Dr. Sunny Kumar Sharma	Co-coordinator	UBA Cell, SMVD University	National
8.	National Workshop cum Conference on Algebra, Analysis, Topology and Applications-2025 during 3-4 March 2025	Dr. A. K. Das	Member, organizing Committee	SMVDU	National