Department of Mathematics
University of the Punjab
Lahore

Seminar Series (39)
Enforced from February 2024

Sr. No.	Name of Speaker	Date & Day	Title of Presentation
1.	Dr. Zeeshan Yousaf	28-02-2024 (Wednesday)	Welcome Speech
2.	Maheen Sultan		Enhancement of the resolution of image processing by using enhanced spherical fuzzy rough ELECTRE I technique
3.	Suraj Khan		Role of complexity factor on the evolution of anisotropic relativistic stellar structures
4.	Inayat Ullah	06-03-2024 (Wednesday)	An integrated weighted multi-criteria decision making method using Z-number and its application in failure modes and effect analysis
5.	Huzaifa Aman	13-03-2024 (Wednesday)	Matter Bounce Scenario in matter geometry coupled theory
6.	Muhammad Arslan (ND)		Wave transmission to the improved Boussinesq equation and the doubly dispersive equation using the unified auxiliary equation method algorithms with applications
7.	Muhammad Sulaiman Riaz		Traveling wave solutions for the doubly dispersive equation and the improved Boussinesq equation by extended hyperbolic function method
8.	Muhammad Ahmed Hashmat	20-03-2024 (Wednesday)	Einstein aggregation operators for circular intuitionistic fuzzy information
9.	Bismillah Saleem		WASPAS method with q-Rung orthopair fuzzy soft set
10.	Freeha Qamar		Einstein aggregation operators for circular intuitionistic fuzzy information
11.	Sehrish Tariq		Hamacher aggregation operators for circular intuitionistic fuzzy information
12.	Hammad Ahmad	21-03-2024 (Thursday)	Reverse Zagreb indices with its application in chemistry
13.	Kinz ul Eman		Text based clustering using NLP techniques
14.	Qurat ul Ain		Facial recognition-informed decision making
15.	Malaika		Similarity measures in machine learning with applications in decision making
16.	Sidrah Iftikhar		Anisotropic fluid distribution and stability of wormhole

17.	Iqra Sana	27-03-2024 (Wednesday)	Dissipative collapse of axially symmetric, general relativistic sources
18.	Muhammad Rizwan		Construction of wormhole models.
19.	Laiba Zahid		Thermodynamic equilibrium of evolving fluid by vorticity free procedure
20.	Ummara Hassan	03-04-2024 (Wednesday)	Computation of VBD topological indices of flabellum graph
21.	Ayesha Ejaz		Qualitative analysis and exact travelling wave solutions for non-linear evaluation equation
22.	Asifa Zahid		Bilinear forms and bilinear Bäcklund transformation for NLPDEs
23.	Amna Hayat		A deep learning framework for solving some physical model through PINN
24.	Sadaf (Rescheduled on 29.05.2024)	04-04-2024 (Thursday)	Planarity on Spherical fuzzy graph
25.	Sana Ramzan (Rescheduled on 29.05.2024)		Complex cubic set
26.	Jahanzaib		Relativistic solution of a manifold
27.	Salman Hasan		Observational constraints on some viable models
28.	Areeba Maqbool	17-04-2024 (Wednesday)	Cubic fuzzy graphs
29.	Minal Irshad		Exact soliton solutions of nonlinear (3+1)-dimensional Sasa Satsuma equation using different methods
30.	Muhammad Awais		Mathematical model for Syphilis-induced HIV transmission
31.	Muazam Ali (Rescheduled on 29.05.2024)		Application of Topological Indices in Chemistry
32.	Kinza Abdul Ghaffar	18-04-2024 (Thursday)	Variants of derivation on Lie algebras
33.	Muhammad Mudassir Abbas		ISI energy change due to an edge deletion
34.	Muhammad Bilal		α-distance energies and spectral radii of graph operations
35.	Safeena Azam	24-04-2024 (Wednesday)	CRITIC-WASPAS method based on spherical fuzzy rough number
36.	Arooj Hashmi (Rescheduled on 06.06.2024)		Extended VIKOR method based on picture fuzzy rough number
37.	Urooj Fatima		Enhanced CRITIC-REGIME method based on spherical fuzzy rough number

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38.	Mavera Nawaz		Extended decision-making methods with Pythagorean fuzzy rough number
39.	Nabiah	02-05-2024 (Thursday)	Extension of CODAS Method towards bipolar fuzzy soft sets
40.	Shoaib Akhtar		q-Rung picture fuzzy topology with applications
41.	Asia Tahir		Extension of CRITIC-MABAC method towards cubic intuitionistic fuzzy sets
42.	Muhammed Mujahid Yaseen		Efficient spherical fuzzy soft CRITIC-CoCoSo framework for supplier selection under uncertainties in Industry 4.0
43.	Shahid Mehmood (ND)	08-05-2024 (Wednesday)	Application of modified auxiliary equation method for solutions of nonlinear PDEs
44.	Samar Hayat		A novel analytical technique for exact solutions of nonlinear PDEs
45.	Bilal Khan (ND)		Exact solutions of nonlinear PDE's using the exp(-$\phi(\xi)$) expansion method
46.	Nosheen Nawaz		Advancements in general relativity: exploring novel concepts and applications
47.	Zahid Iqbal	15-05-2024 (Wednesday)	Mathematical study of rabies transmission
48.	Madiha Akram		Investigation of peristaltic flow of erying-powel nano fluid
49.	Aleeza		Mathematical study of non-Newtonian characteristics of blood flow
50.	Um e Hafsa		TBA
51.	Mehwish Jahangir	22-05-2024 (Wednesday)	Numerical solution of physical model through neural network
52.	Muhammad Nadeem		Medical image denoising using convolutional denoising autoencoders
53.	Muhammad Waqas Badar		An efficient optimization technique for training deep neural network
54.	Muzammil Hussain		Entropy generation in MHD mixed convective nanofluid flow
55.	Muhammad Sajawal **(ND due to absence)**	29-05-2024 (Wednesday)	Graphs of arithmetic functions in number theory
56.	Muhammad Abyaz		Modified fuzzy operators
57.	Shakir Mehmood		Molecular descriptors and entropies of some chemical graphs
58.	Muhammad Sheraz		Novel exact soliton solutions of (2+1) dimensional Sakovich equation using effective techniques

59.	Pakeeza Bakhtawar	05-06-2024 (Wednesday)	Exact solutions of Gerdjikov-Ivanov equation with constant and variable coefficients using F-expansion method
60.	Muhammad Ahmad		Investigation of soliton solutions for the extended (3 + 1)-dimensional Sakovich equation using different analytical methods
61.	Ayesha Idrees		Study of non linear Kariat X equation Via Modified Auxiliary Equation Method
62.	Prof. Dr. Muhamad Akram	05-06-2024 (Wednesday)	Closing speech

Note: The above-mentioned seminars will be held at 1400 hours in the Department of Mathematics, University of the Punjab, Lahore. All faculty members and research scholars (MPhil/PhD) are invited to attend these seminars.

Dr. Zeeshan Yousaf
Coordinator
Departmental Seminar Series

Prof. Dr. Muhammad Akram
Chairman