



# Department of Mathematics University of the Punjab, Lahore

## Seminar Series (41) Enforced from Dec. 2024

Sr. No.	Name	Date	Title of Talk
1.	Dr. Zeeshan Yousaf Seminar Coordinator		Welcoming Address
2.	Ujala Zafar		Anisotropic Wormhole fluid Models
3.	Mahnoor Amir	18-12-2024	Spherical Relativistic Analytical Models
4.	Abdul Manan		Analysis of Morris-Thorne-Type Wormholes in General Relativity
5.	Zainab		Observational Imprints of Gravastars from Accretion Disks and Hotspots
6.	Abdur Rehman		Anisotropic Stellar Modeling of Compact Stars in $f(R)$ Gravity
7.	Bakhtawar	08-01-2025	Study of self-bound compact stars in $f(T)$ gravity and observational constraints on the model parameter
8.	Syed Farhan Raza		Quasi-Minimal $\lambda$ - Bézier surfaces in Minkowski Space
9.	Samra Baber		Anisotropic stellar modeling with cloud of string and quintessence field in modified gravity



**Dr. Zeeshan Yousaf**  
Coordinator  
Departmental Seminar Series

**Prof. Dr. Muhammad Akram**  
Chairman



Call Us To Know More  
**042-99231241, Ext. 126**

**Venue:** Seminar Hall, Department of Mathematics, University of the Punjab, Lahore.

**Day & Time:** Wednesday, 3:00 pm.



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Sr. No.	Name	Date	Title of Talk
10.	M. Haider Ali Asghar		Analytical study of solitary wave solutions, stability, & sensitivity to parameter variations in the coupled Higgs system
11.	Areeba Khalil	15-01-2025	Analysis of soliton solution to fifth order non linear Schrodinger equation in weakly non local media using analytic algorithm
12.	Maha Ahmed		Extracting Wave Solutions of Coupled System of Dual-mode Variant Boussinesq Equation via Two Analytical Methods
13.	Nimra Shoukat		Exploring Dual-Mode solutions of the coupled Zakharov-Kuznetsov via Two Analytical Methods
14.	Seerat Fatima		Analyzing the dynamics of Lassa fever through mathematical modeling: A comprehensive study using real data from Nigeria
15.	Rubab Kamran	22-01-2025	Gravitational Dissipative Collapse
16.	Khush Bakhat Liaqat		Effects of Curvature Ingredients on Theoretical Solutions
17.	Jahanzaib		Spherically Symmetric Geometric Models



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Sr. No.	Name	Date	Title of Talk
18.	Ammar Rashid		ENTROPY-RANCOM Method for Evaluating Renewable Energy Resources using Cubic Picture Fuzzy Information
19.	Raeesa Noor	29-01-2025	Circular Intuitionistic Fuzzy Aczel–Alsina Aggregation Operators with Multi-Criteria Decision-Making
20.	Tehmina Shahzadi		Enhancing Evaluation with Softmax Hamacher Aggregation Operator and LOPCOW-AROMAN Technique
21.	Yasir Yasin		A Systematic Investigation of MABAC with Gaussian Membership Function for Optimizing Water Quality
22.	Iqra Zareef	12-02-2025	CRITIC-CoCoSo Approach and Fairly Aggregation Operators for Intuitionistic Fuzzy Credibility Numbers
23.	Toqeer Jameel		Entropy-SWARA-COCoSo method for optimizing renewable
24.	Mahrukh Ahsan		Enhanced feature selection for data classification using machine learning
25.	Akhtar Hussain	19-02-2025	Hybrid Fuzzy Graph Neural Networks
26.	Faisal Shabir		Novel Applications of Fuzzy Graph Neural Network



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27.	Amna Siddique		Dynamic behavior of soliton solutions of Caudrey-Dodd-Gibbon Equation via Extended Hyperbolic Function Method
28.	Muqaddas Sattar	26-02-2025	Dynamical Behavior of (4+1)-Dimensional Nonlinear Fokas Lenells Equation via Extended Hyperbolic Function Method
29.	Sumaira Khan		Solitary wave Solution of the (3+1)-Dimensional Quantum Zakharov-Kuznetsov Equation via Extended Hyperbolic Function Method
30.	Ali Raza		Solitary wave solutions of Salerno equation
31.	Muneeba Wazir	05-03-2025	Solitary wave solutions for nonlinear coupled Davey-Stewartson-Fokas system
32.	Noor Fatima		Solutions of nonlinear Schrödinger wave equation with power law nonlinearity in the absence of chromatic dispersion
33.	Salman Tahir		Review of Backlund transformation using Bell Polynomials
34.	Masab Jalal		Adjoint based optimization of Heat equation
35.	Zuha Khalid	12-03-2025	Solving coupled Higgs equation and Maccari system using controlled Picard method with rho-Laplace transform
36.	Huzaifa Aman		Wormhole solutions and energy conditions in $f(R,G)$ gravity



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Sr. No.	Name	Date	Title of Talk
37.	Adnan Farid		Some Aggregation Operators for q-Rung Orthopair Fuzzy Z-Numbers with Applications
38.	Anwaar Sabar	19-03-2025	q-Rung Orthopair m-Polar Fuzzy Aczel–Alsina Aggregation Operators
39.	Laila Javed		Analysis and Mathematical modeling of co-infections
40.	Ayesha Aslam		Derivations of 3-Parameter Generalized Quaternion Algebras
41.	Ayesha Saleem		Laplacian Energy Change after an edge Deletion
42.	Bilal Liaqat	26-03-2025	Lie Derivation and Lie Triple Derivations of 3-Parameter Generalized Quaternion Algebras
43.	Ghulam Shabbir		Lie Bi-derivations and Tri-derivations 3-Parameter Generalized Quaternion Algebras
44.	Aqsa Shafi		Integrating Fuzzy MCDM with clustering Techniques
45.	Rehman Khan	09-04-2025	Novel Aggregation Operator-based MAGDM Framework and Application
46.	Amna Riaz		Qualitative Analysis of MERS Cov-2 model
47.	Muhammad Mudassar Bilal		Analysis of a Mathematical Model for Lassa Fever Transmission Dynamics



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Sr. No.	Name	Date	Title of Talk
48.	Muzammil Hussain		Numerical Study of MHD Rotating Flow of Bioconvective Maxwell Fluid
49.	Sadam Hussain	16-04-2025	CFD Analysis of Blood flow in a Stenosed Artery
50.	Shanza Nazeer		Numerical Study of Casson Dusty Fluid Flow with Variable Thermal Conductivity
51.	Irum Batool		Unlocking the Potential of Fuzzy Neural Networks in Earth Science
52.	Ayesha Ahmad	23-04-2025	Fuzzy-Neural Networks for Sparse SAR Data Reconstruction
53.	Nimra Khan		Multi-Layer Perceptron Networks with Fuzzy Logic for SAR Image Denoising
54.	Sadia Riasat		Convolutional Neural Networks with applications to computer vision
55.	Asra Ayyub	29-04-2025	Graph Theoretic Approaches for Decision Making in Machine Learning.
56.	Maryam Shakoor		Leveraging Quantum Support Vector Machines for Superior Diagnostic Accuracy
57.	Ali Hassan		Enhancing MCGDM Using Graph Neural Networks
58.	Hafiza Areeba Ashfaq	30-04-2025	Fuzzy Decision Making using Machine Learning Techniques
59.	M Hamza		Comprehensive Study of $Z_{mx}Z_n$ Graphs & Their Mathematical Properties
60.	Abdul Manan		Fuzzy Graph Neural Networks for Enhanced Multi-Criteria Group Decision-Making
61.	Aysha Saeed, M. Awais, Shameela	07-05-2025	TBA
62.	Prof. Dr. Muhamad Akram Chairman		Closing speech



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