



**Institute of Mathematics
University of the Punjab
Lahore**

**Seminar Series (44)
Enforced from September 2026**



Sr. No.	Name of Speaker	Date & Day	Title of Presentation
1.	Prof. Dr. Ghazala Akram, Director	09-09-2026 (Wednesday)	Welcome Speech
2.	Faisal Hayat Shaheen		Solitary Wave Solutions and Sensitivity Analysis of (2+1)-dimensional Dissipative Long Wave System
3.	Muhammad Yousuf		Study of Fuzzy Fractional Generalized FitzHugh-Nagumo Differential Equations
4.	Seerat Ijaz		Thermodynamical signatures of ABG black hole with PFDM
5.	Sidra Qayyum	16-09-2026 (Wednesday)	Optimization of Heat Transfer and Entropy for Maxwell Dusty Fluid
6.	Ali Kamran		Fuzzy Graph Neural Network in Traffic Forecasting
7.	Toqeer Jameel		An Integrated Feature Selection and Fuzzy Machine Learning Approach Using Hybrid MCDM Techniques
8.	Muhammad Bilal	23-09-2026 (Wednesday)	Mathematical analysis of nonlinear bipolar fuzzy fractional partial differential equations with convergence and stability analysis
9.	Ali Kamran		Fuzzy Graph Neural Network in Fraud Detection
10.	Muhammad Yousuf		Modeling and Applications of System of ψ -Hilfer Tempered Pythagorean Fuzzy Fractional Differential Equations
11.	Hina Gulzar	30-09-2026 (Wednesday)	Towards Robust Deepfake Detection in Real-World Video Conditions
12.	Aleeza Arshad		An Investigation of Mixed Convective Jeffrey Fluid Flow Restricted in a Vertical Channel Between Radius-Dependent Porous Nanofluid Regions
13.	Muhammad Yousuf		Analysis of System of Pythagorean Generalized Fuzzy Fractional Telegraph Equations with Applications
14.	Maria Sarfraz	07-10-2026 (Wednesday)	A Mathematical and Numerical Study of a Fuzzy Fractional Generalized SIR Epidemic Model
15.	Sulaman Shaukat		Thermal fluctuations and greybody factor of loop quantum black holes
16.	Maham Ilyas		Spacetime Ripples and Gravitational-Wave Astronomy
17.	Muhammad Shafaqat	14-10-2026 (Wednesday)	Analysis of Polytropes in the Presence of Quintessence and a Cloud of Strings
18.	Hina Gulzar		Evaluating ImageNet Features for Robust Deepfake Detection with Temporal Modeling



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19.	Muhammad Bilal		Fourier Transform-Based Analytical Solution of a Fractional Bipolar Fuzzy Wave Equation under Caputo GH-differentiability
20.	Maham Ilyas	21-10-2026 (Wednesday)	Generalization of Rastall Gravity in a Modified Gravitational Framework
21.	Sulaman Shaukat		Greybody factor for a rotating Bardeen black hole by perfect fluid dark matter
22.	Rukhsana Nazer		Anisotropic Self-gravitating Spherical Models
23.	Sana Saleem	28-10-2026 (Wednesday)	Anisotropic perturbations and cosmic stability via modified gravity
24.	Maham Ilyas		Generalization of Rastall Gravity within $f(R)$ Gravity: An Approach to Compact Stars
25.	Iqra Siddique		Black Holes in an Expanding Universe
26.	Sulaman Shaukat	04-11-2026 (Wednesday)	Quantum effects on greybody factor via quantum Oppenheimer–Snyder-dS spacetime
27.	Zainab Akram		A Federated Learning Framework with Fuzzy Attention Based YOLO Detector for Weed Detection and Management
28.	Muhammad Shafaqat		Analysis of Conformally Flat Anisotropic Polytropes in $f(R,T)$ Gravity
29.	Muhammad Shahbaz	11-11-2026 (Wednesday)	Hirota Bilinear Form and Standard Dynamics of the Fokas Equation
30.	Rukhsana Nazer		Photon Sphere and Black Hole Shadows
31.	Muhammad Shafaqat		Analysis of Polytropes for Anisotropic fluid in $f(R,T)$ Gravity
32.	Muhammad Tanveer	18-11-2026 (Wednesday)	Exploring the Dynamics of Compact Stellar Configurations
33.	Muhammad Rizwan		A Broad Perspective on Compact Geometries
34.	Sana Saleem		Study of Anisotropic Stellar and Cosmological Models in $f(Q)$ Gravity
35.	Sania	25-11-2026 (Wednesday)	Cosmological Aspects of Self-gravitating Systems
36.	Ammara Shafiq		Dynamical Investigation of Compact Objects
37.	Freeha Qamar		Explainable Artificial Intelligence Driven SHAP-Based Interpretation of Black-Box Fuzzy Modeling
38.	Nabiah	02-12-2026 (Wednesday)	Data-Driven Feature Selection and LOPCOW-BWM-CODAS for Predicting Climate Change Mitigation Measures
39.	Mehak Batool		Fuzzy Machine Learning based Decision Analytics Framework for Stratospheric Aerosol Candidates in Solar Geoengineering



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40.	Prof. Dr. Ghazala Akram, Director	02-12-2026 (Wednesday)	Closing Speech
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Note: The above-mentioned seminars will be held at 2:00 PM in the Institute 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
Institutional Seminar Series

Prof. Dr. Ghazala Akram
Director