

Seminar Invitation: SEIR Model for Transmission of COVID-19

Speaker: **Rabia Nawaz** from Department of Mathematics, University of the Punjab, Lahore

Speakers' Brief Introduction

Ms. Rabia Nawaz is an MPhil Scholar working jointly under the supervision of Prof. Dr. Malik Zawwar Hussain (retired) and Dr. Rukhsana Kausar. The field of research of a student is Computational Mathematics, specializing in Mathematical Modeling.



Abstract

This abstract summarizes the SEIR (Susceptible-Exposed-Infectious-Recovered) model for studying the spread of infectious diseases like COVID-19. The model divides the population into compartments and tracks the flow of individuals between them to simulate the epidemic's dynamics. It considers parameters like transmission rate, incubation period, and effectiveness of interventions. The SEIR model informs public health measures but should be used with caution, considering real-world data.

Departmental Seminar Series

The Seminar Series serves as a platform to showcase and celebrate the remarkable work carried out by our researchers, scholars, and experts. It provides an avenue for knowledge dissemination and collaboration, creating an environment that nurtures innovative ideas and drives groundbreaking research. We proudly acknowledge and celebrate the remarkable contribution of Prof. Dr. Muhammad Sharif in introducing this seminar series back in 2005. The Seminar Series encompasses a wide range of topics, spanning various disciplines, ensuring that it caters to the diverse interests and expertise of our institute's community. Through these seminars, we aim to cultivate an environment of intellectual curiosity, stimulating meaningful discussions, and fostering interdisciplinary collaborations.



Please join us for this Presentation

When: Monday 10th July 2023; 02:15PM-02:30PM

Where: Computer Lab, Department of Mathematics, University of the Punjab, Lahore

Note: All the faculty members and research scholars (MPhil/PhD) are invited to the seminar.

Chairman Message



It is my honor to witness the passion and dedication that our faculty and students bring to the study of this beautiful discipline. I encourage our faculty members to create a supportive environment that nurtures and promotes mathematical research. I urge each and every one of you, regardless of your level of experience, to actively participate in mathematical research and contribute to the growth of our research community. It is our collective responsibility to create an ecosystem that encourages and facilitates research pursuits.

Coordinator Departmental Seminar Series

Dr. Zeeshan Yousaf

Associate Professor

Department of Mathematics, University of the Punjab, Lahore