

Seminar Invitation: Mathematical Modeling and Optimal Control for Lassa Fever

Yasir Ramzan from Department of Mathematics, University of the Punjab, Lahore

Speakers' Brief Introduction

Mr. Yasir Ramzan is an MPhil Scholar working under the supervision of Dr. Aziz Ullah Awan. The field of research of a student is Applied Mathematics, specializing in Bio-Mathematics.



Abstract

Lassa fever, a severe viral disease, poses a significant public health threat in various regions. This research focuses on exploring strategies to control Lassa fever outbreaks and presents a comprehensive mathematical model to study the transmission of the disease. The disease-free equilibrium point is investigated. To ensure the model's accuracy, the parameters using real-world data are estimated. The model's sensitivity is assessed to crucial factors that influence the spread of the disease. By quantifying their impact, valuable insights are gained into which factors play a significant role in disease transmission. This research provides valuable insights into the dynamics of Lassa fever and offers suitable measures for efficiently controlling the disease.

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: Friday 7th July 2023; 03:15PM- 03:30PM

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

Note: All faculty members and research scholars (MPhil/PhD) are invited to attend this 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