

Seminar Invitation: Numerical analysis of Covid-19 disease: Insights from Atangana-Baleanu fractional derivative.

Speaker: **Ali Raza** from Department of Mathematics, University of the Punjab, Lahore

Speakers' Brief Introduction

Mr. Ali Raza is an MPhil scholar working under the supervision of Dr. Nauman Raza. The field of research of a student is Computational Mathematics, specializing in Bio Mathematics.



Abstract

In this presentation, a non-linear model with Atangana-Baleanu fractional derivative is proposed to describe Covid-19. The models' threshold parameter is calculated to investigate the further dynamics of the disease. Furthermore, numerical simulations are performed using Toufik-Atangana numerical scheme. This model provides useful insights into the pandemic dynamics.

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.



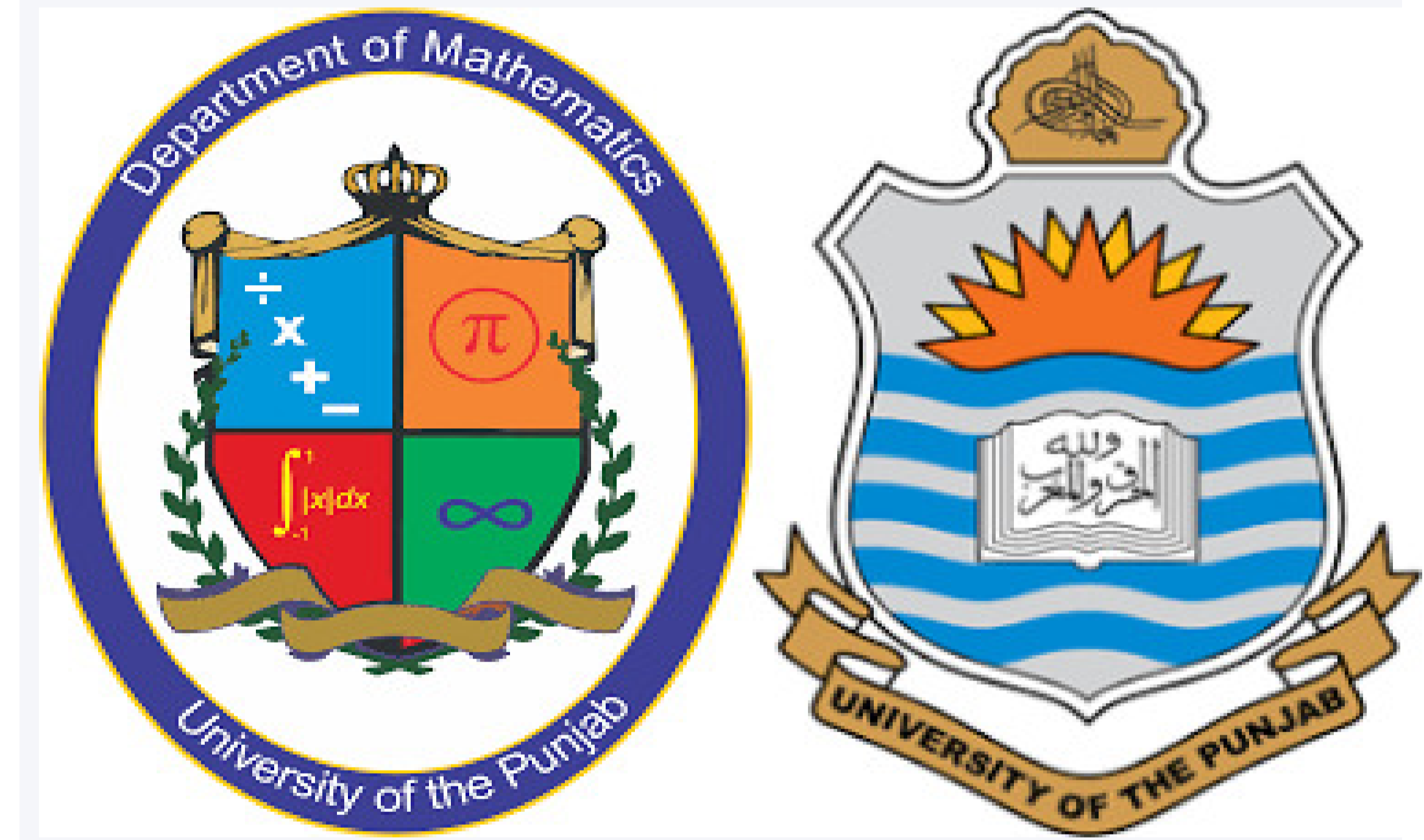
Please join us for this Presentation

When: Tuesday 11th July 2023; 02:30PM-02:45PM

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