



DEPARTMENT OF MATHEMATICS

GC UNIVERSITY LAHORE

Unpacking Mathematics : (Weekly Seminar Series)

Date: *08-08-2017* (Tuesday),
Time: *02:30 pm*-03:30 pm,
Venue: *Seminar Hall, Department of Mathematics,*

Speaker

Dr. Azhar Ali Zafar, Department of Mathematics, GC University Lahore

Title of Lecture

"Fractional Calculus and its Applications in Fluid Mechanics"

Abstract: The aim of this talk is to give a brief introduction about the formulation of the fractional order derivative and integral operators. We will discuss the properties of these operators. Moreover, we will discuss the methods to develop a fluid dynamics model in the settings of fractional calculus

References:

- [1] R. Hilfer, Applications of Fractional Calculus in Physics, World Scientific Press, Singapore, 2000.
- [2] C. F. Lorenzo and T. T. Hartley, Generalized functions for the fractional calculus, NASA/TP-1999-209424/REV 1 (1999).
- [3] F. C. Meral, T. J. Royston, R. Magin, Fractional calculus in viscoelasticity: An experimental study, Commun. Nonlinear Sci. Numer. Simul. **15** (2010) 939–945.
- [4] I. Podlubny, Fractional Differential Equations, Academic press, San Diego, (1999).

For more information please contact:

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