Infosys Lecture Series
Probability and Number Theory
HRI, Prayagraj

Ram Murty - Tree Planting HRI June 2009

Professor M. Ram Murty

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Dates: *December 10-19, 2022*

Time: *10.30 AM - 12.00 Noon*

Days: *Everyday*

Venue: *Higg's Lecture Hall*

We will give a short course connecting probability theory and number theory.

Some emphasis will be given to Probabilistic Number Theory as it relates to the Erdos-Kac theorem and generalizations, Markov theory, random walks on groups, and the large sieve method as it originally emerged from probabilistic considerations in the work of Linnik and Renyi. We will also highlight some applications to Probabilistic Galois theory and discuss connections with the celebrated Riemann hypothesis.