



SCHOOL OF  
MATHEMATICS AND  
STATISTICS

UNIVERSITY OF  
HYDERABAD



Maryam  
Mirzakhani  
Memorial Lecture

Sponsored by UGC-SAP, DSA-I

# ON POLYNOMIAL RINGS

## Abstract

*"Polynomials and power series  
May they forever rule the world."*

Thus begins a poem composed by Shreeram S. Abhyankar in 1970. Polynomials are introduced at a very early stage in our studies, yet there are many interesting fundamental problems on polynomial rings which are easy to state but difficult to approach. In this talk we shall discuss a few problems on polynomial rings and some recent progress.

---

---

**Date : 24 February 2020**  
**Time: 4.00 p.m.**  
**Venue : C.V.Raman Auditorium.**

---

---

**Dr. Neena Gupta**  
**Associate Professor**  
**Theoretical Statistics**  
**and Mathematics Unit**  
**Indian Statistical**  
**Institute (ISI) Kolkata.**



Dr. Neena Gupta has been awarded at the tender age of 34 the Shanti Swarup Bhatnagar Prize 2019, in Mathematical Sciences. This prize, one of the most prestigious awards in the country for research in Science, honours scientists for significant and cumulative contribution to their area of research. Dr Gupta thus became the youngest person in Mathematical Sciences to receive this award till date. She received B. M. Birla award in 2017, DST Swarna Jayanti Fellowship in 2015 and INSA Young Scientist award in 2014.

She has been recognised for her contributions to affine algebraic geometry, especially in proposing a solution to the Zariski Cancellation Problem. Her field of research is Commutative Algebra and Affine Algebraic Geometry. Commutative algebra, apart from being a beautiful subject, provides a base over which a vast body of pure mathematics develops, Algebraic Geometry being one of the primary ones.

**All are welcome**