

## Ramanujan Prize

## Why in News

The <u>Ramanujan Prize for Young Mathematicians from developing countries</u> has been given to **Professor Neena Gupta.** 

- She is a mathematician at the Indian Statistical Institute in Kolkata and has been awarded for her outstanding work in affine algebraic geometry and commutative algebra.
- She is the third woman to receive the Ramanujan Prize.
- Her solution for solving the Zariski cancellation problem, a fundamental problem in Algebraic Geometry, earned her the 2014 Young Scientists Award of the Indian National Science Academy.

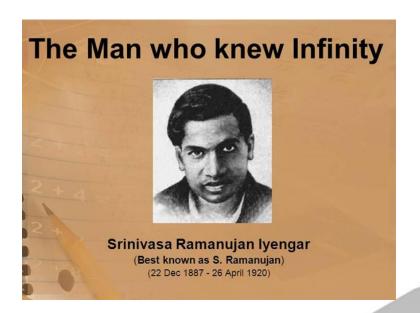
## **Key Points**

- About:
  - The Ramanujan Prize for Young Mathematicians from developing countries has been awarded annually since 2005.
  - It is administered by the Abdus Salam International Centre for Theoretical Physics
    (ICTP) jointly with the <u>Department of Science and Technology (DST)</u> Government of India and the International Mathematical Union (IMU).
    - **ICTP**: Founded in 1964 by the late **Nobel Laureate Abdus Salam**, it seeks to accomplish its mandate by providing scientists from developing countries with the continuing education and skills that they need to enjoy long and productive careers.

Vision

- IMU: It is an international non-governmental and non-profit scientific organization, with the purpose of promoting international cooperation in mathematics.
  - It is a member of the International Science Council (ISC).
- **DST**: The **DST** has **agreed to fund the Prize**, starting with the 2014 Prize.
  - It has been supported by DST in the memory of <u>Srinivasa Ramanujan</u>, a genius in pure mathematics who was essentially self-taught and made spectacular contributions to elliptic functions, continued fractions, infinite series, and analytical theory of numbers.
- Eligibility & Prize:
  - It is awarded to a researcher from a developing country who is less than 45 years of age on 31<sup>st</sup> December of the year of the award, and who has conducted outstanding research in a developing country.
  - · Researchers working in any branch of the mathematical sciences are eligible.
  - The Prize carries a **USD 15,000 cash award.**

Srinivasa Ramanujan //



- Ramanujan was born on 22<sup>nd</sup> December 1887 in a village Erode (400 km from Chennai, then known as Madras).
- The famous British mathematician **Godfrey Harold Hardy** recognised his talent in 1913. He went to Cambridge, on Godfrey Harold Hardy's invitation.
- Ramanujam made substantial contributions to the analytical theory of numbers and worked on elliptic functions.
- He also worked on the partition of the whole number, hypergeometric series and Euler's constant.
- His papers were published in English and European journals, and in 1918 he was elected to the Royal Society of London.
- He died on April 26<sup>th,</sup> 1920, at the age of 32, just after returning to India after a long illness.
- In India, December 22<sup>nd</sup> is celebrated as National Mathematics Day in the memory of Srinivasa Ramanujan.

**Source: PIB** 

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