

Ramanujan Prize, 2021

December 13, 2021

In news— Recently, **professor Neena Gupta**, a mathematician at the Indian Statistical Institute in Kolkata, has been awarded the **2021 DST-ICTP-IMU Ramanujan Prize for Young Mathematicians from developing countries**.

About Professor Neena Gupta-

- She has **received a prize for her outstanding work in affine algebraic geometry and commutative algebra**.
- She is the **third woman to receive this prize**.
- Professor Gupta's **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.
- The problem was posed by one of the most eminent founders of modern Algebraic Geometry, Oscar Zariski, in 1949.

About the prize-

- It was **first awarded in 2005 (named after Srinivasa Ramanujan)**.
- It is **administered by the Abdus Salam International Centre for Theoretical Physics (ICTP) of Italy jointly with the Department of Science and Technology (DST) Government of India and the International Mathematical Union (IMU)**.
- In 2021, the name of the Prize was changed to the DST-ICTP-IMU Ramanujan Prize.
- The DST of the Government of India has been funding the Prize since 2014.
- This prize is **given annually to an eminent Mathematician who is less than 45 years of age** and has conducted outstanding research in developing countries by ICTP, Trieste and is sponsored by the Department of Science &

Technology (DST), Government of India.

Abdus Salam International Centre for Theoretical Physics (ICTP)-

- It is an international research institute for physical and mathematical sciences that operates under a tripartite **agreement between the Italian Government, UNESCO, and International Atomic Energy Agency.**
- It was **founded in 1964** by the late Nobel Laureate Abdus Salam.
- It is **located near Miramare Park, near Trieste, Italy.**
- 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.
- ICTP has been a major force in stemming the scientific brain drain from the developing world.

About International Mathematical Union (IMU)-

- It is an **international non-governmental and non-profit scientific organization**
- Its purpose is **promoting international cooperation in mathematics.**
- It is a member of the International Science Council (ISC).
- IMU endorses ISC's Principle of Freedom, Responsibility and Universality of Science.