Remembering Ramanujan:
The Indian Mathematical Genius

(A day-long programme on *April 26, 2018* organized by the *Department of Mathematical Sciences* as a part of *Silver Jubilee Celebrations: 25 Glorious Years* of **Tezpur University**)

Overview

The great Indian mathematician Srinivasa Ramanujan (December 22, 1887—April 26, 1920) made some truly remarkable discoveries in several areas of mathematics. A self-taught genius and with almost no formal training, Ramanujan revolutionized the study of several areas of number theory, including the Theory of Partitions, Continued Fractions, Theta functions, and so on. He developed his own theory of elliptic functions, and then gave truly new dimension to the study of *pi* and some other mathematical constants. His approach is now incorporated in computer algorithms yielding billions of digits of π. The main purpose of this day-long programme is to give the participants, especially young students, scholars, and teachers, an exposure to Ramanujan's extraordinary life history and to introduce a few glimpses of his mathematics.

The progaramme will have

A. **Expository talks** by invited speakers and in-house speakers on
    - Ramanujan: Life and a brief overview of his contributions in various fields,
    - Some beautiful elementary formulas of Ramanujan (magic squares, Ramanujan's famous taxicab number, divergent series, etc.) and their developments,
    - Ramanujan's formula for odd zeta values and subsequent developments,
    - Partitions and overpartitions associated with some mock theta functions of Ramanujan;

B. **An Exhibition** of copies of Ramanujan's notebooks, the lost notebook, papers, and books related to his life and work;

C. **An open quiz** (no groups, open to all) on Ramanujan and Mathematics, in general.

Speakers include:

Dr. Atul Dixit, *Indian Institute of Technology Gandhinagar*

Dr. Bibekananda Maji, *Indian Institute of Technology Gandhinagar*

Professor Nayandeep Deka Baruah, *Tezpur University*

Ms. Nilufar Mana Begum, *Tezpur University*

Quiz Master:

Dr. Dhiren Kumar Basnet, *Tezpur University*

Date & Time	April 26, 2018, 9:30 am — 5:00 pm
Venue	**Screening Hall, *Department of Mass Communication and Journalism (MCJ)***
How to apply?	Interested students (Class X onwards), research scholars, and teachers may contact **Professor Nayandeep Deka Baruah, Department of Mathematical Sciences, Tezpur University, Napaam-784028, Assam,** by sending E-mails to **nayan@tezu.ernet.in** or **nayandeeptezu@gmail.com. Phone: 03712-275506.** ***There is no registration fee.***
Participants needing accommodation may stay at University Guest House by booking in advance. Please visit http://www.tezu.ernet.in/guesthouse/guesth.html for details including room tariff.	