

REPORT ON

e-Talk, Celebrating National Mathematics Day, 2021

Department of Mathematics, Rajiv Gandhi University

The Department of Mathematics, Rajiv Gandhi University organized an ***E-Talk*** on **22nd of December 2021** to commemorate the **National Mathematics Day**.

The Inaugural session of the talk was Chaired by Prof. Amitava Mitra, Pro vice Chancellor, Rajiv Gandhi University.

Dr. Nipen Saikia, Head of Mathematics Department, delivered the welcome speech. He also gave a brief account on the conception of National Mathematics Day. Our country celebrates this day to honour the contributions made by Srinivasa Ramanujan in Mathematics.

Prof. Mitra, in his address, highlighted the importance of mathematics in Economics. He also encouraged the Department to conduct similar programmes in future.

Prof. Sanjeev Kumar, Dean of Faculty of Basic Sciences, also attended the inaugural session and addressed the participants.

The inaugural session came to an end with vote of thanks delivered by Dr. Saifur Rahman, Associate Professor, Department of Mathematics, RGU.

The title of the talk was “Ramanujan and his Mathematics”. The talk was delivered by Prof. Nayandeep Deka Baruah, an eminent Mathematician from Tezpur University. Prof. Baruah has been working in the field of Ramanujan’s mathematics and contributed a lot in the field of Ramanujan’s Mathematics. He is also a recipient of Young Scientist Award.

In his talk, Prof. Baruah presented a glimpse of Ramanujan’s personal life and his interest in mathematics. He also provided the mass with the very interesting scholarly works of Ramanujan. He also presented some future prospects that can be taken up by research scholars.

The talk was attended by the students, Research Scholars and faculty members of the Department of Mathematics, Rajiv Gandhi University.

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Nayandeep Deka Baruah is presenting

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Ramanujan's "Most" Beautiful Identity

If

$$(a; q)_{\infty} := \prod_{n=0}^{\infty} (1 - aq^n),$$

then

$$\sum_{n=0}^{\infty} p(5n+4)q^n = \frac{(q^5; q^5)_{\infty}^5}{(q; q)_{\infty}^6}.$$

The above immediately gives Ramanujan's congruence

$$p(5n+4) \equiv 0 \pmod{5}.$$

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Participants: You, Rahul Kumar, Saifur Rahman, 58 others

Convener:

Dr. Nipen Saikia
 Head
 Department of Mathematics
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Secretary:

Dakjum Eshi
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