

**Dr. Ambedkar College, Nagpur.
Department Of Mathematics
Academic Session - 2020-2021
Report on National Mathematics Day**

PROGRAMME DETAILS

NAME OF THE PROGRAMME: Guest Lecture on “National Mathematics Day”

NAME OF RESOURCE PERSON: Dr. Mrs. Rajani Anturkar,
Head, Department of Mathematics, Sant Gadge Maharaj
Mahavidyalaya, Hingna,

DAY & DATE: Saturday, 3rd April 2021

TIME: 2.00 PM to 3.00 PM

NOTICE:

DR. AMBEDKAR COLLEGE, DEEKSHA BHOOMI, NAGPUR

NOTICE

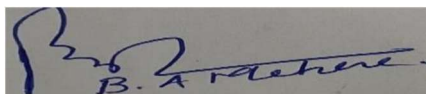
The students of B.Sc. Second Semester of Dr. Ambedkar College, Deeksha Bhoomi are hereby informed that, the guest lecture to celebration , “**National Mathematics Day**”, has been organised by the Department of Mathematics, Dr. Ambedkar College, Deekshabhoomi, Nagpur **on 3rd April 2021 at 2.00 PM**, through Google Meet.

Google Meet link- meet.google.com/utj-crua-kbw

Topic: Lecture to celebrate National Mathematics day by Dr. Mrs. Rajani Anturkar - by Department of Mathematics

Time: Apr 3, 2021 2:00 PM India Join Google meet

All shall have to attend the lecture.

A handwritten signature in blue ink on a grey background. The signature is stylized and appears to read 'B. A. Mehere'.

Dr. Mrs. Bhumi Mehere

Prof. Mrs. S M Pawar

Head, Department of Mathematics

Dr. Jitesh Tripathi

Assistant Professor, Department of Mathematics

Report:

Department of Mathematics, Dr. Ambedkar College, Deekshabhoomi, Nagpur had organized a Guest Lecture to celebrate “National Mathematics Day” for B.Sc. students of Second Semester, of all the streams on 3rd April 2021. Dr. Rajani Anturkar, Head, Department of Mathematics, Sant Gadge Maharaj Mahavidyalaya, Hingna, delivered the guest lecture on “The Life History of Great Mathematician Srinivasa Ramanujan”.

In her lecture, she highlighted the early phase of Ramanujan’s life and the struggles he faced. She also discussed about the dedication with which he worked towards achieving greatness in the field of Mathematics starting his life from humble backgrounds and thus, provided with a lot of motivation to our students. She also highlighted some of his important results and theorems during his stay with Sir Hardy in England. The lecture was appreciated by the student for her efforts. Dr Jitesh Tripathi conducted the program and vote of thanks was given by Prof. S. M. Pawar.

Photographs:

A screenshot of a Google Meet session. The main window displays a PowerPoint slide titled "CHILD PRODIGY". The slide content is as follows:

CHILD PRODIGY

A thought of a 7 year old Prodigy

- Teacher: $n / n = 1$, for every integer n .
- Ramanujan: "Is zero divided by zero is also one?"
- Ramanujan's Answer: "Zero divided by zero may be anything. The zero of the numerator may be several times the zero of the denominator and vice versa".

(7 year old prodigy was thinking of limits and limiting processes.)

The meeting interface shows the presenter "Ajay Anturkar" and a list of participants including Swati Patte, Nikita Pund, Damini Sayyam, Khushi Galkwad, Abhishek Yadav, Kirti Jambhulkar, Rajeshri Warbhe, and Nisha Khankure. The time is 2:20 PM on 4/2/2021.

A screenshot of a Google Meet session. The main window displays a PowerPoint slide titled "Life Down & Ups". The slide content is as follows:

Life Down & Ups

- Ramanujan initially refused to go to England possibly due to his caste prejudice. But after meeting Sir Neville, Ramanujan finally set sail for England at a age of 26 years in 1914.
- Prior to Ramanujan departure to England, Prof. Littlehailes & Mr. Arthur Davies arranged with the University for £ 60 (out of Scholarship amount of £ 250) per year to be sent to his parents in India. Thus, he fulfilled his responsibilities as the eldest son of the family.

The meeting interface shows the presenter "Ajay Anturkar" and a list of participants including Swati Patte, Nikita Pund, Damini Sayyam, Khushi Galkwad, Abhishek Yadav, Kirti Jambhulkar, Rajeshri Warbhe, and Nisha Khankure. The time is 2:30 PM on 4/3/2021.

Meet - utj-crua-kbw

Improper Integrals Questions

https://meet.google.com/utj-crua-kbw

Ajay Anturkar is presenting

Harshal Tembhu... and 25 more

2:30 PM

PowerPoint: Ramanujan ppt (Final).ppt

CONTACTING ENGLISH MATHEMATICIANS

- M. J. M. Hill of University College London argued that though Ramanujan had taste for Mathematics he lacked the proper educational background and foundation
- He refused to take Ramanujan as student
- But gave him professional advice on his work

Meeting details

Turn on captions

Ajay Anturkar is presenting

2:30 PM 4/9/2021

Meet - utj-crua-kbw

Improper Integrals Questions

https://meet.google.com/utj-crua-kbw

Ajay Anturkar is presenting

Samiksha Mankar and 25 more

2:31 PM

PowerPoint: Ramanujan ppt (Final).ppt

INTRODUCTION WITH G.H. HARDY

- G.H. Hardy was an academician at Cambridge University
- He was a prominent English mathematician, known for his achievements in number theory and mathematical analysis.
- Later on Ramanujan wrote to G.H. Hardy
- Hardy recognised some of his formulae but other "seemed scarcely possible to believe". Some of them were -

$$\int \frac{1+x^2/(b+1)^2}{1+x^2/(a+1)^2} \cdot \frac{1+x^2/(b+2)^2}{1+x^2/(a+1)^2} \dots dx = \frac{\sqrt{a}}{2} \frac{\Gamma(a+1)\Gamma(b+1)\Gamma(b-a+1)}{\Gamma(a)\Gamma(b+1)\Gamma(b-a+1)}$$

Relating to infinite series -

$$1 - 5\left(\frac{1}{2}\right)^3 + 9\left(\frac{1 \times 3}{2 \times 4}\right)^3 - 13\left(\frac{1 \times 3 \times 5}{2 \times 4 \times 6}\right)^3 + \dots = \frac{2}{\pi}$$

$$1 + 9\left(\frac{1}{4}\right)^4 + 17\left(\frac{1 \times 3}{4 \times 8}\right)^4 + 25\left(\frac{1 \times 3 \times 5}{4 \times 8 \times 12}\right)^4 + \dots = \frac{2\pi}{17\sqrt{2}}$$

Meeting details

Turn on captions

Ajay Anturkar is presenting

2:31 PM 4/9/2021

Meet - utj-crua-kbw Double Integrals Applications <https://meet.google.com/utj-crua-kbw> 2:44 PM You

Meeting details

Turn on captions Present now

Type here to search

2:44 PM 4/2/2021