



ACTIVITIES 2024-25

Activity: Workshop on “Unlocking the Secrets of Vedic Mathematics”

Date: October 15- 19, 2024

Objective: The objective of this workshop was to enhance mathematical skills through various application of Vedic Mathematics. It aimed to focus on Calculation Speed and Accuracy, Improving Problem solving skills and to develop analytical skills and critical thinking among the participants. This workshop also explored Practical Applications in everyday situations. This workshop aimed to empower participants with valuable skills while honoring and promoting the rich heritage of the Indian knowledge system.


Descriptions: The 5 Day workshop on “Unlocking the secrets of Vedic Mathematics” was organized by Department of Mathematics St. Bede's College Shimla. The Resource persons were Prof. Tania Bose, Dr. Renu Bala, Dr. Madhu Aneja from CUIET Chitkara University Punjab. The workshop aimed to introduce students to the fascinating world of Vedic Mathematics, a system that simplifies complex calculations and enhances mental math skills. Each day focused on a specific topic, allowing participants to deepen their understanding and practice techniques that can improve their mathematical abilities.

Topics such as multiplication of 5 digits numbers, Japanese multiplication, tables up to 100, Calculation of Determinants of Higher order, Advanced Techniques in Vedic Math etc were covered in the workshop. The principal of the college Sr. (Prof.) Molly Abraham thanked the resource persons for their insightful sessions.

Outcome: The participants are able to improve their calculation speed and accuracy using Vedic techniques. Also they are able to approach and solve complex mathematical problems using innovative Vedic methods. They also developed Analytical and Critical Thinking through interactive exercises and discussions. The participants will be able to apply Vedic Mathematics techniques to everyday situations, improving their overall mathematical literacy. It also Increased Confidence in mathematical abilities, leading to a more positive attitude towards math in academic and professional settings. Participants also gained a deeper understanding of the foundational principles of Vedic Mathematics and its historical significance.



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Heritage Status

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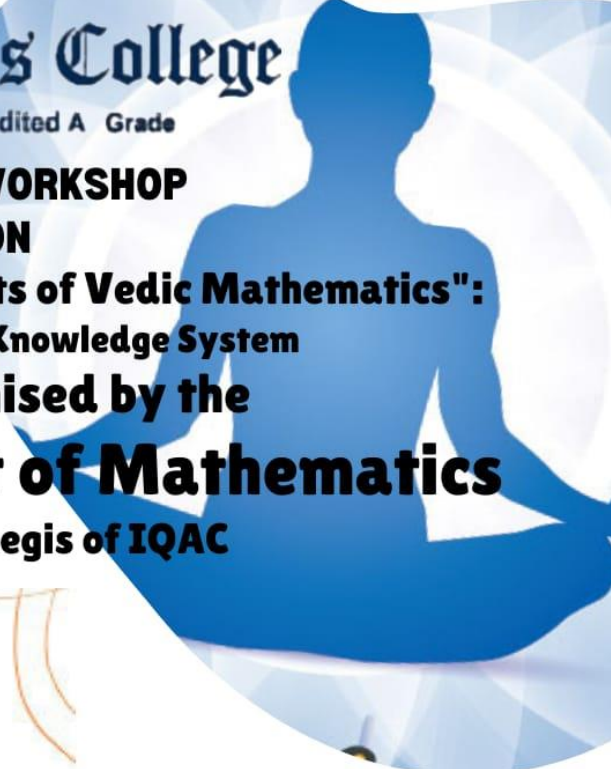
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FIVE DAYS WORKSHOP ON

"Unlocking the Secrets of Vedic Mathematics": Promoting Indian Knowledge System


Organised by the Department of Mathematics

Under the Aegis of IQAC





15 October, 2024- 19 October, 2024



Seminar Room

Resource Persons:

Dr. Tania Bose
(Prof. CUIET Chitkara University Punjab)

Dr. Renu Bala
(Asst. Prof. CUIET Chitkara University Punjab)

Dr. Madhu Aheja
(Asst. Prof. CUIET Chitkara University Punjab)

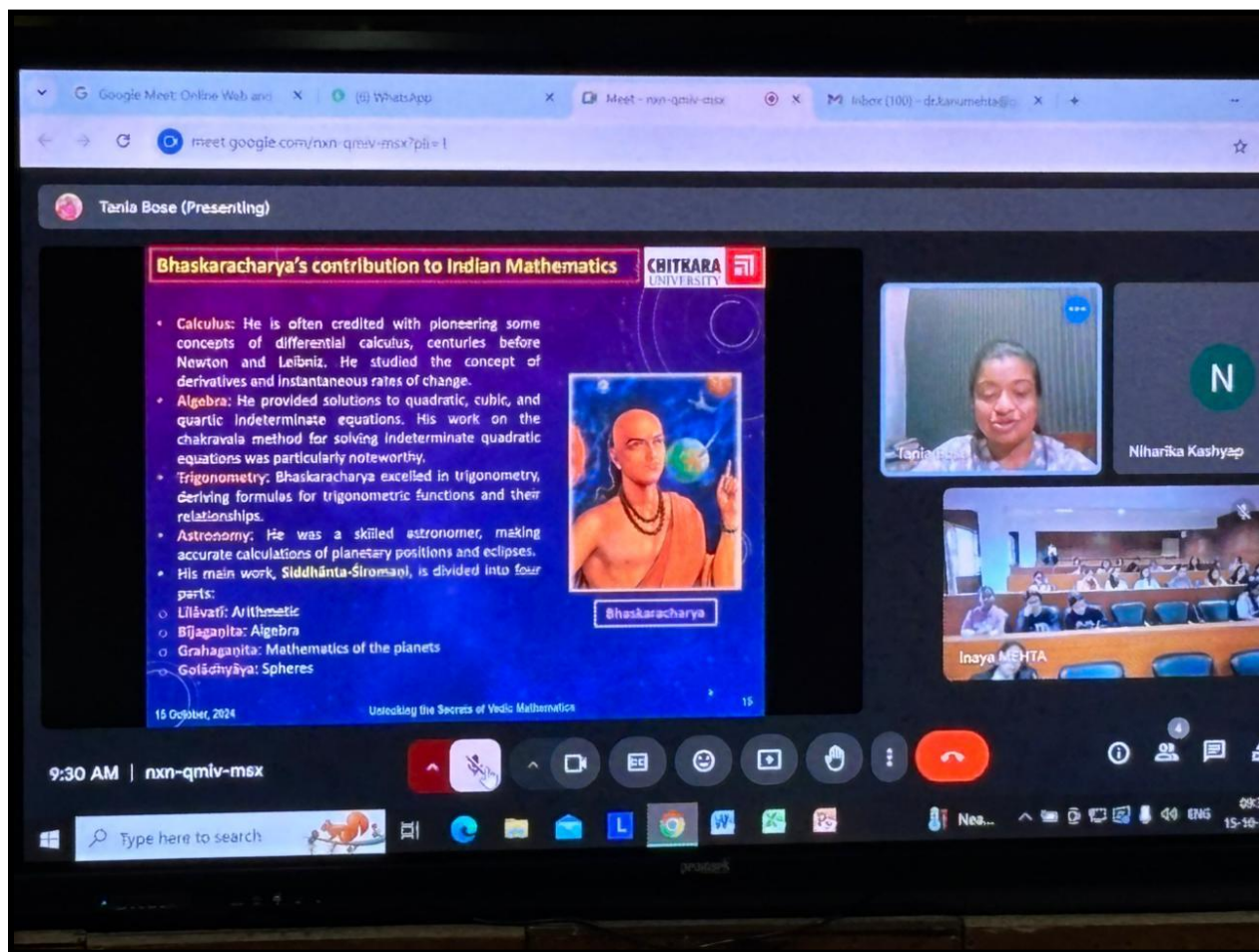
Brochure



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Day 1: October 15, 2024

Dr. Tania Bose was the Resource person for the first day of the workshop. She shared her insightful knowledge on Vedic mathematics. She talked about history of Vedic Mathematics, contribution of Indian scientist etc. On the first day students learnt two methods of Vedic Mathematics i.e. tables upto 100 and division by 9. It was an interactive session and all the students participated with full enthusiasm.



Workshop on “Unlocking the Secrets of Vedic Mathematics”



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Tania Bose (Presenting)

16 Sutras continued...

Sl.No.	Sutra	Meaning
9	Chalana-kalanabhyam	Differential calculus.
10	Yavadunam	By the deficiency.
11	Vyasti Samastih	Specific and general.
12	Sesanyankena Caramena	The remainders by the last digit.
13	Sopantyadvayamantyam	The ultimate and twice the penultimate.
14	Ekanyunena Purvena	By one less than the one before.
15	Gunitasamuchchaya	The product of the sum.
16	Gunakasamuchchaya	All the multipliers.

15 October, 2024

Unlocking the Secrets of Vedic Mathematics

CHITKARA UNIVERSITY

GPS Map Camera

Shimla, Himachal Pradesh, India
35VP+MMQ, Navbahar, Chotta Shimla, Shimla, Himachal Pradesh 171002, India
Lat 31.094194°
Long 77.186291°
15/10/24 09:33 AM GMT +05:30

Google

Workshop on "Unlocking the Secrets of Vedic Mathematics"



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Example:

32 Times Table

Dr. Ranu Bala

Niharika Kashyap

Prerna MEHTA

GPS Map Camera

Shimla, Himachal Pradesh, India
35VP+MMQ, Navbahar, Chotta Shimla, Shimla, Himachal Pradesh 171002, India
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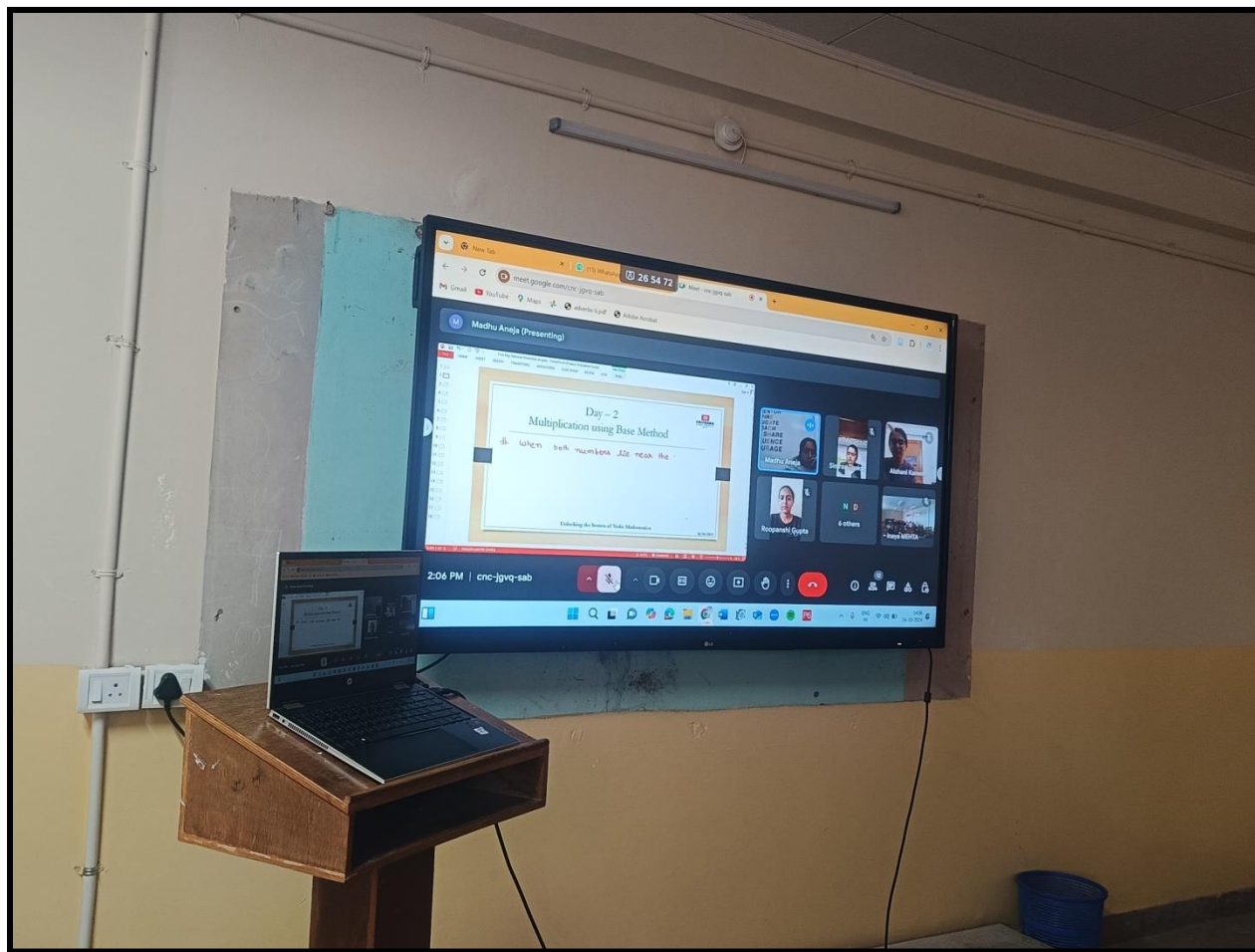
Workshop on “Unlocking the Secrets of Vedic Mathematics”



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Day 2: October 16, 2024

The speaker for this session was Dr. Madhu Aneja. It was the thrilling topic where she taught students about multiplication by base method. This method is helpful in solving complex multiplication easily.



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The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "Unlocking the Secrets of Vedic Mathematics" with the date "16/10/2024". The slide content includes a handwritten-style calculation:
$$\begin{array}{r} 86 \\ 78 \end{array} \begin{array}{l} -14 \\ -22 \end{array}$$
 and a circled number "14" with "22" below it. To the right of the slide, there are two lines of text: 14×2 and 14×2 . The bottom of the slide has the text "Unlocking the Secrets of Vedic Mathematics" and "16/10/2024". The Meet interface shows a list of participants on the right: Madhu Aneja (Presenting), Anushka Thakur, Himani, Roopanshi Gupta, and 5 others. The bottom status bar shows the time "2:16 PM" and the meeting ID "cnc-jgvq-sab". A "GPS Map Camera" overlay is visible in the bottom right corner, showing a map of Shimla, Himachal Pradesh, India, with coordinates: 35VP+MMQ, Navbahar, Chotta Shimla, Shimla, Himachal Pradesh 171002, India. The coordinates are Lat 31.094094° and Long 77.186393°. The date and time are 16/10/24 02:16 PM GMT +05:30.

Workshop on "Unlocking the Secrets of Vedic Mathematics"



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← cnc-jgvq-sab 🔊

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4998 998
4996 -1996
4
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-1 1000
19983 -996
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Unlocking the Secrets of Vedic Mathematics
30/36/2024

Madhu is presenting 🖥️

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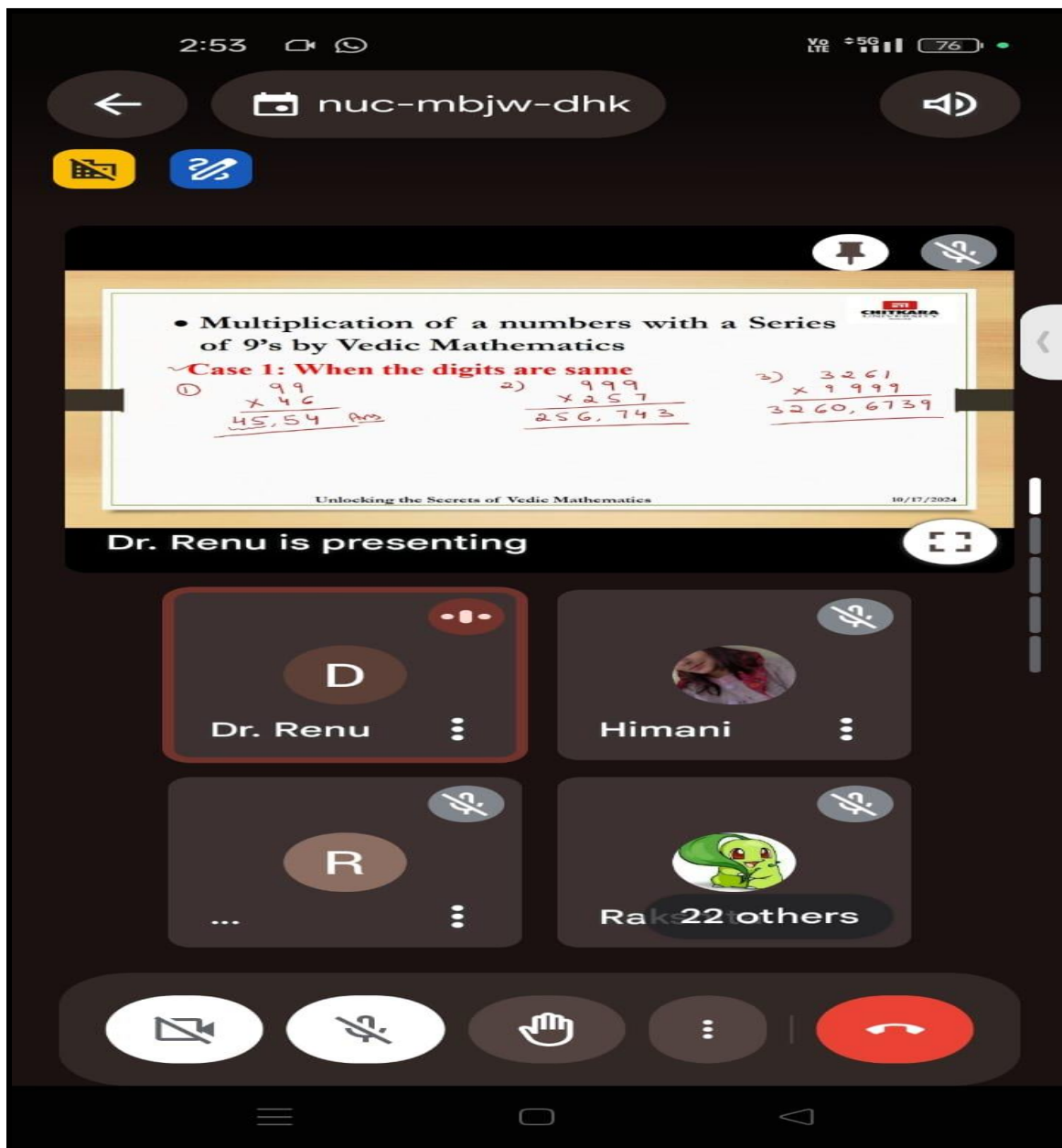
Workshop on “Unlocking the Secrets of Vedic Mathematics”



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Day 3: October 17, 2024

Dr Renu Bala was the resource person on the third day of the workshop. She taught about line addition of one digit, two digits, three digits and multiplication of number with a series of 9 and multiplication by 11.



Workshop on “Unlocking the Secrets of Vedic Mathematics”



2:59 5G 75%

← nuc-mbjw-dhk

Dr. Renu

• Multiplication of a numbers with a Series of 9's by Vedic Mathematics

Case 2: When the first number is more than the second number

①
$$\begin{array}{r} 999 \\ \times 046 \\ \hline 045,954 \end{array}$$

②
$$\begin{array}{r} 999999 \\ \times 002322 \\ \hline 002321,997678 \end{array}$$

③
$$\begin{array}{r} 99999 \\ \times 03467 \\ \hline 03466,96533 \end{array}$$

④
$$\begin{array}{r} 9999 \\ \times 0321 \\ \hline 0320,9679 \end{array}$$

Unlocking the Secrets of Vedic Mathematics 10/17/2024

Dr. Renu is presenting

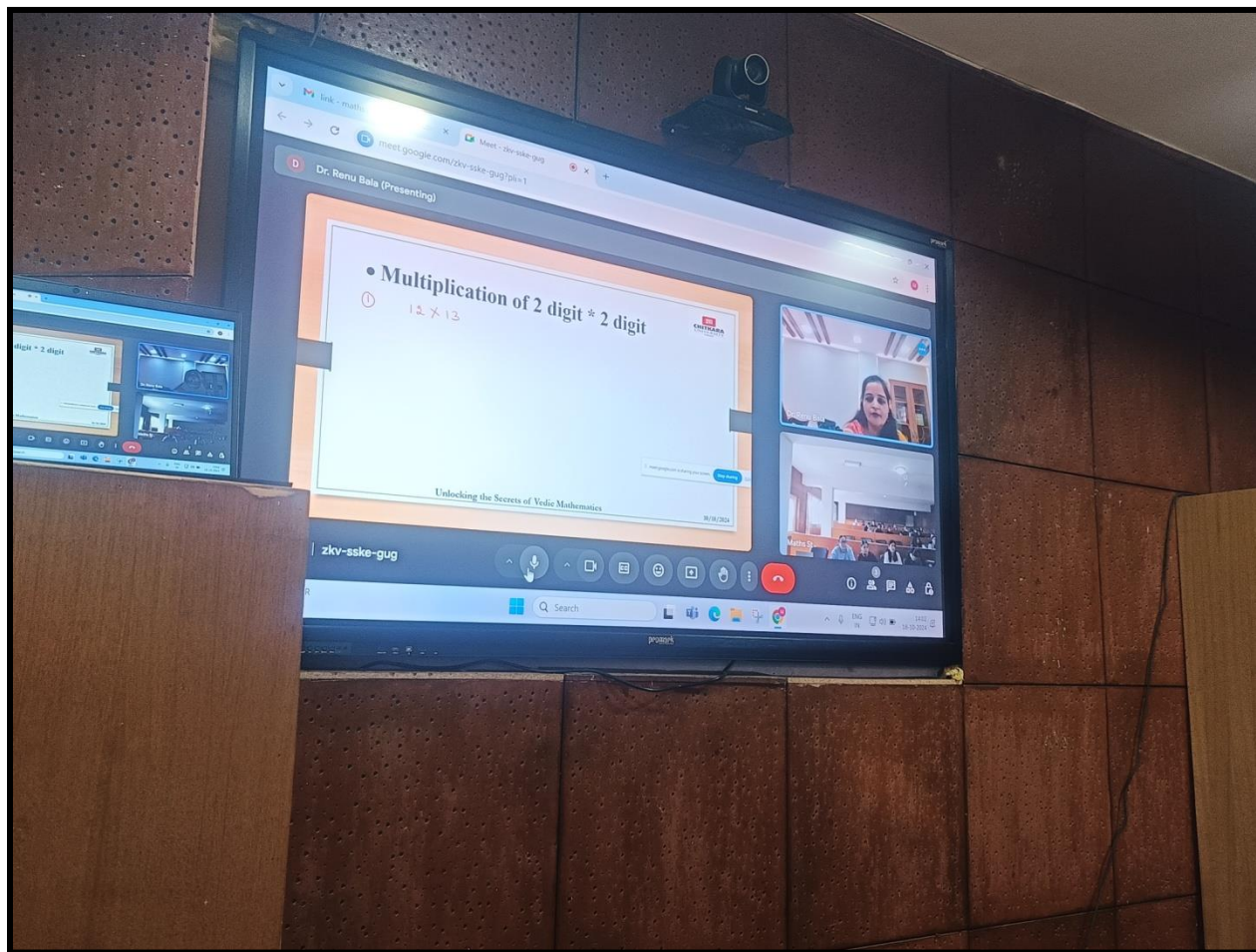
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Day 4: October 18, 2024

Dr Renu Bala was the resource person on the fourth day of the workshop .She taught about multiplication of 2by 2digits,3 by 3digits , 4by 4digits and 5 by 5 digits and Japanese method of 1,2 and 3 digits. She also taught about squaring of numbers ending with 5.



Workshop on “Unlocking the Secrets of Vedic Mathematics”



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Dr. Renu Bala (Presenting)

• Multiplication of 4 digit * 4 digit

Unlocking the Secrets of Vedic Mathematics

18/10/2024

Dr. Renu Bala

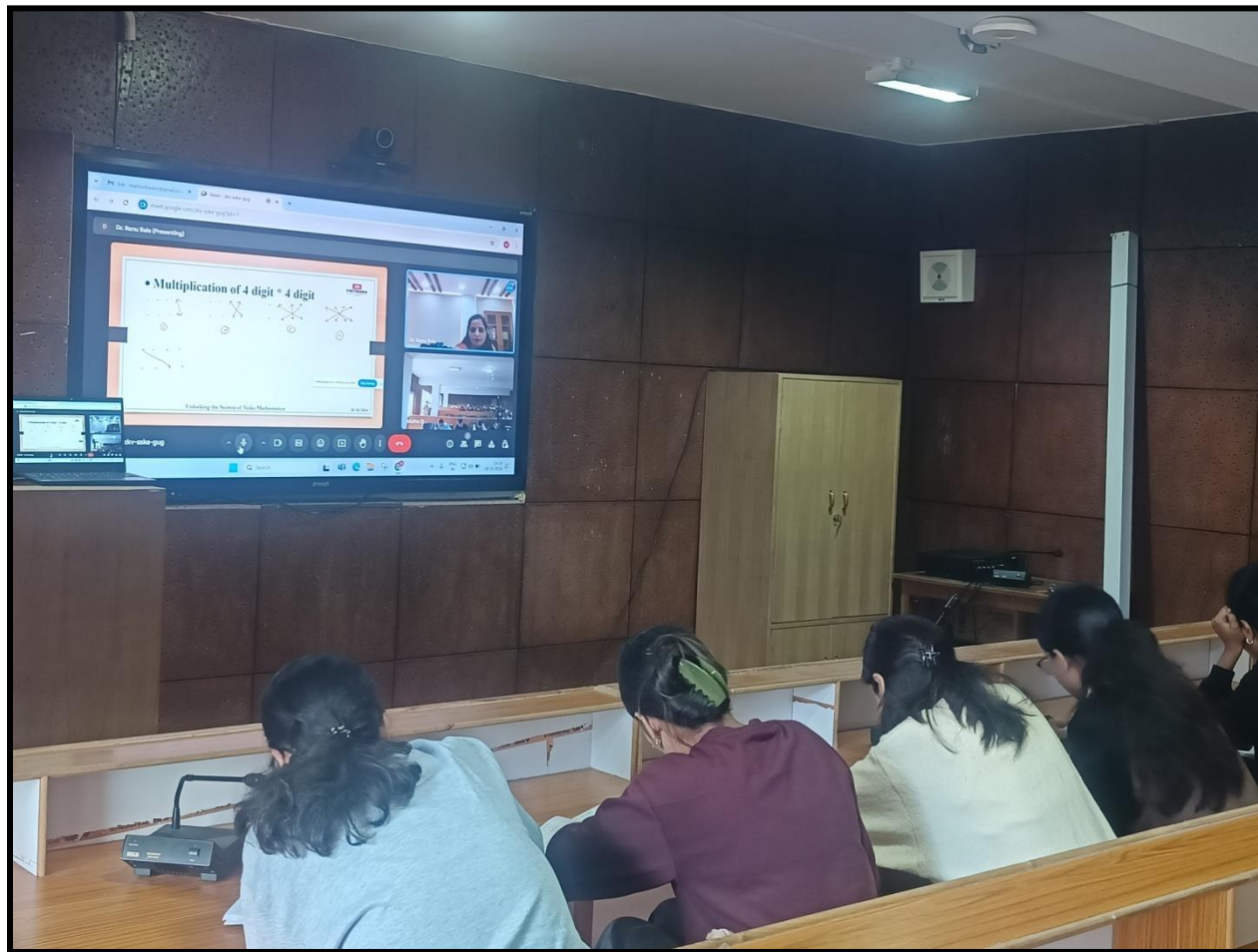
GPS Map Camera

Shimla, Himachal Pradesh, India
35VP+MMQ, Navbhahar, Chotta Shimla, Shimla, Himachal Pradesh 171002, India
Lat 31.094102°
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18/10/24 02:16 PM GMT +05:30

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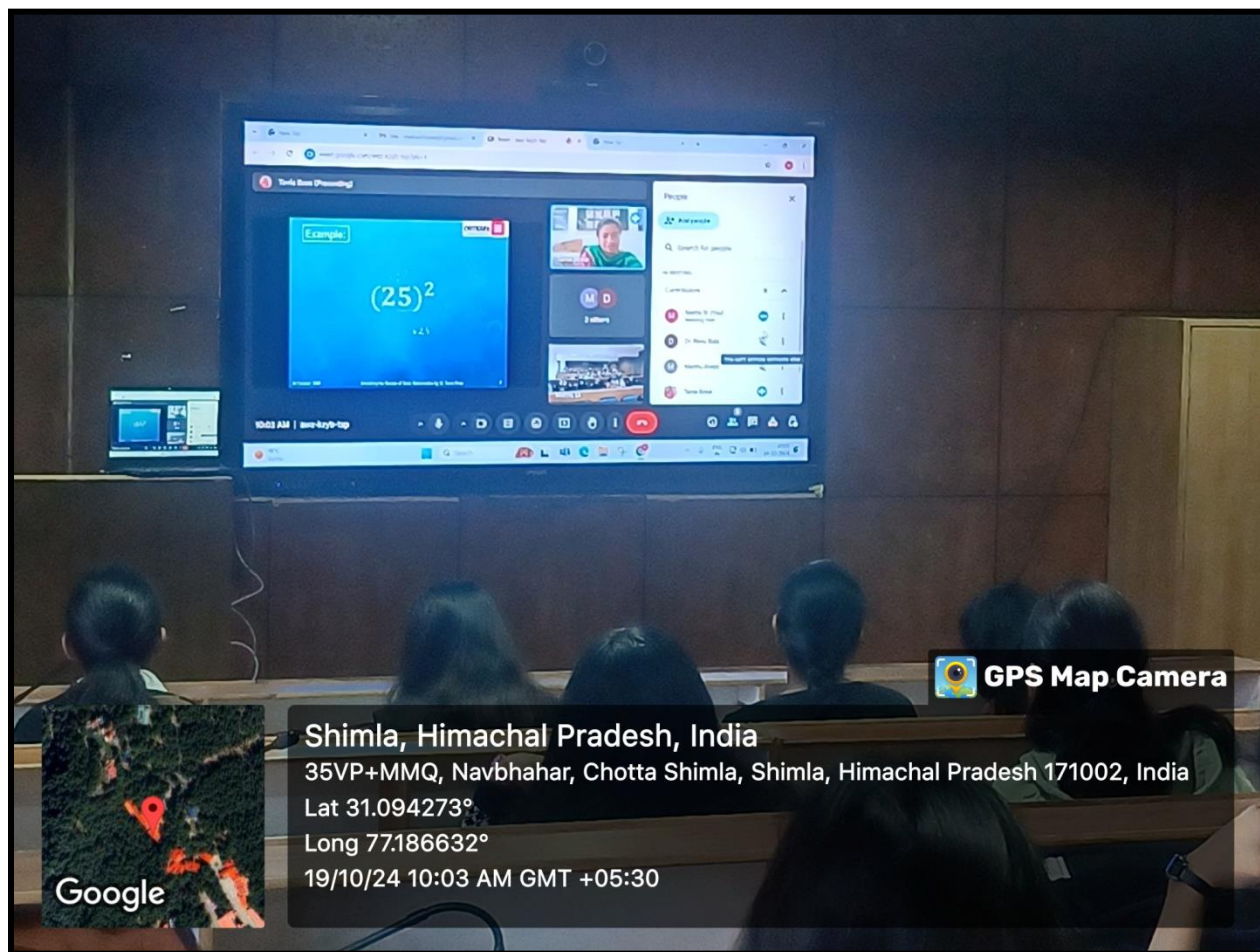
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Day 5: October 19, 2024

Dr. Tania Bose gave her insightful lecture on squaring of number lying between 40 and 50, 50 and 60. She also discussed how to solve determinants of higher order and calendar questions.



Workshop on “Unlocking the Secrets of Vedic Mathematics”



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Workshop on “Unlocking the Secrets of Vedic Mathematics”



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Workshop on “Unlocking the Secrets of Vedic Mathematics”



सेंट बीड्स कॉलेज में वैदिक गणित पर लगाई कार्यशाला

शिमला। सेंट बीड्स गर्ल्स कॉलेज शिमला के गणित विभाग ने वैदिक गणित के रहस्य विषय पर पांच दिवसीय कार्यशाला का आयोजन किया। इसमें सीयूआईईटी चितकारा यूनिवर्सिटी पंजाब के प्रो. तानिया बोस, डॉ. रेनू बाला, डॉ. मधु अनेजा स्रोत व्यक्ति के रूप में शामिल हुए। कार्यशाला में छात्राओं को वैदिक गणित की आकर्षक दुनिया से परिचित करवाया गया।

कार्यशाला में हर दिन एक विशिष्ट विषय को लेकर चर्चा की गई। इससे प्रतिभागियों का वैदिक गणित को लेकर ज्ञान बढ़ाने का प्रयास किया गया। इससे छात्राओं की गणितीय क्षमताओं में सुधार आएगा। कार्यशाला में 5 अंकों की संख्याओं का गुणन, जापानी गुणन, 100 तक की सारणी, उच्च क्रम के निर्धारकों की गणना, वैदिक गणित में उन्नत तकनीक आदि जैसे विषयों पर चर्चा की गई। ब्यूरो



Department of Mathematics
St. Bede's College, Shimla

Activity: Celebrating National Mathematics Day

Date: December 18, 2024

Objective: To nurture critical thinking, logical reasoning and problem solving skills among students, fostering discoveries in the field of mathematics and use software tools to explore, visualize, and present mathematical concepts innovatively.


Description: The Mathematics Department of St. Bede's College organized a presentation on life and works of Ramanujan, a quiz, and a Video Making Competition (centred around the works in Mathematics) on December 18, 2024, to celebrate Ramanujan's birth anniversary. The quiz champions were Payal Mehta, Vedika, and Divyakshi, while the runner-up position was secured by Rakshita, Roopanshi, and Ananaya. Alisha grabbed the 1st position in Video making competition.

Outcomes: It helped the students to develop and enhance their critical thinking and problem solving skills, which are highly valuable in numerous aspects of their life. Through the use of software tools, students were able to explore, visualize, and present mathematical concepts in a visualized way effectively. This activity also created the awareness of the discoveries in the field of mathematics.



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$2^x + 3^4 = 12$


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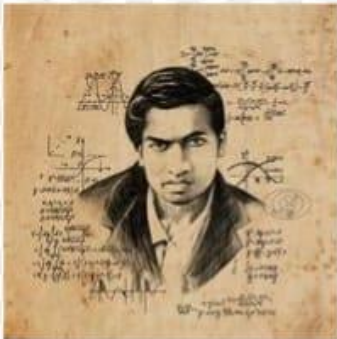
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**Department of Mathematics
is Celebrating**

**NATIONAL
MATHEMATICS DAY**

Activities:
-Presentation on life of
Ramanujan
Video making competition
-Quiz

Date: December 18th, 2024
Time: 10:40 a.m
Venue: Seminar Room



Brochure



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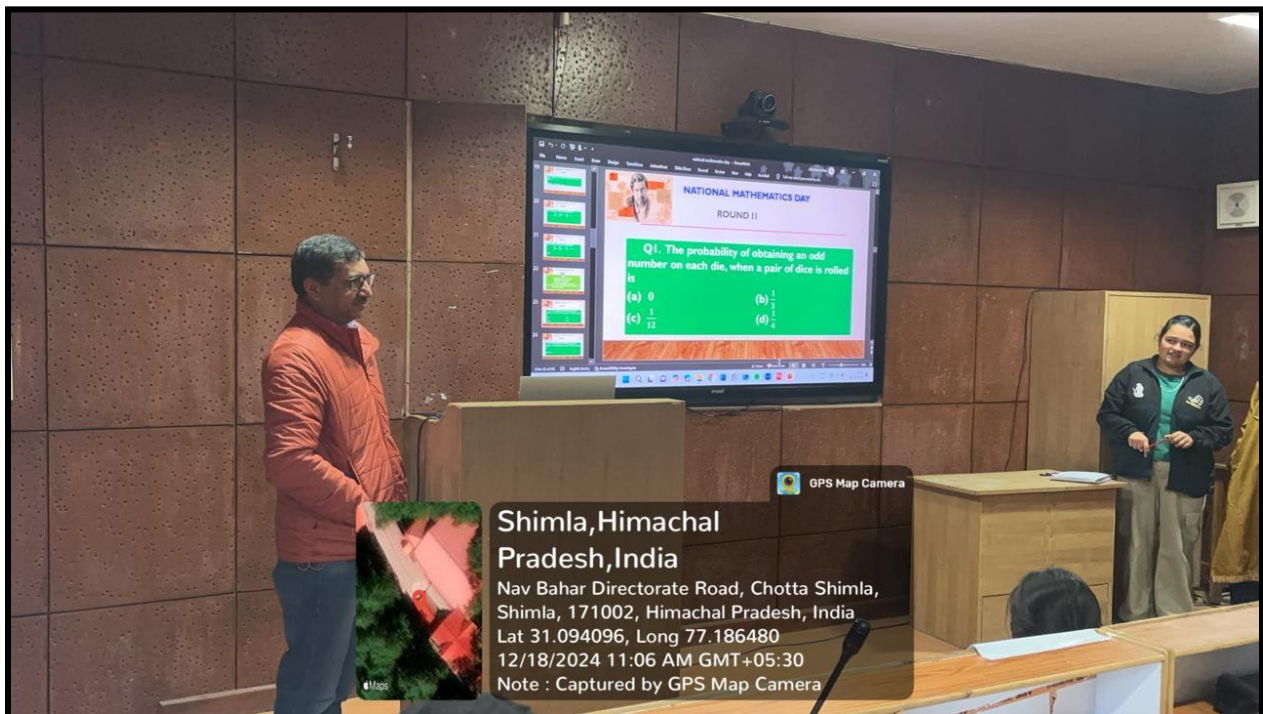
National Mathematics Day



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National Mathematics Day



National Mathematics Day



Department of Mathematics
St. Bede's College, Shimla

Activity: Celebrating International Day of Mathematics

Date: March 13, 2025

Objective: The objective of celebrating the International Day of Mathematics observed on March 14th was to promote the significance of mathematics in our daily lives and highlight its role in various fields such as science, technology, engineering, and even arts. The date, March 14 (3/14), also coincides with Pi Day, in honor of the mathematical constant π , creating an opportunity to celebrate mathematical discovery and its endless possibilities.


Description: The Mathematics Department of St. Bede's College organized an insightful presentation to celebrate Pi Day by exploring its history and significance. As a part of this, three mathematics students took the initiative to visit City public school, Bhattakuffer, where they introduced the ancient Indian system of mathematics known as Vedic Mathematics to the school students.

Outcomes: The students got a deeper understanding of Pi and its mathematical importance, especially in geometry and circle-related calculations. The Pi Day celebration not only made the concept of Pi more accessible but also highlighted its role in everyday life and scientific calculations.

Introducing Vedic Mathematics in school played a pivotal role in encouraging knowledge sharing among the students. It also inspired curiosity, deepened understanding, and highlighted the impact of mathematics on society, motivating them to study mathematics more deeply. This initiative helped foster a sense of community among students. The session also highlighted the richness of India's mathematical heritage, fostering a sense of pride in the ancient contributions of Indian scholars to the world of mathematics.



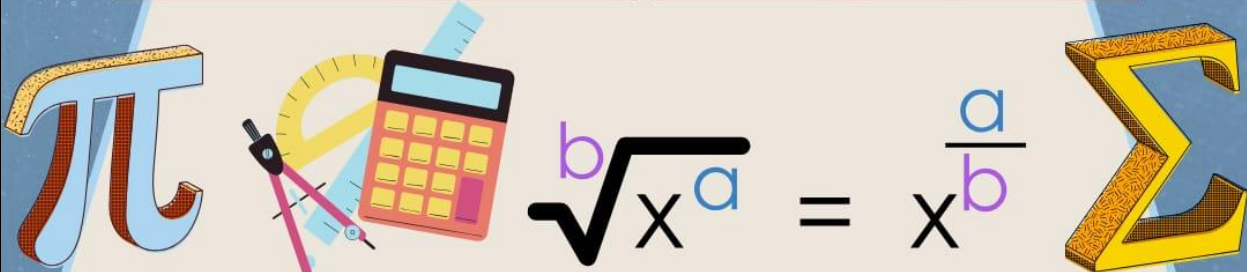
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Department of Mathematics
Is celebrating
**INTERNATIONAL DAY OF
MATHEMATICS**
On
March 13, 2025

<p>Demonstration Session at City Public School, Bhattakufer on Vedic Mathematics (10a.m.-11a.m.)</p>	<p>Presentation (History and Significance of PI Day) (12:30 pm onwards at Computer Lab-2)</p>
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Brochure



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International Day of Mathematics



International Day of Mathematics



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International Day of Mathematics