

**Course Name: Certificate Course for UG Students on Vedic  
Mathematics (CCVM)**

**Date: 15<sup>th</sup> December, 2021 – 22<sup>nd</sup> December, 2021**

**Curriculum/Course Outline:**

**Module 1 (9 Hrs):**

- Multiplication by Ekadhikena, Eknunena and Nikhilam
- Square using Sutras – Ekadhikena Purvena, Nikhilam and Duplex, Difference of Squared Numbers, Sum and Difference of Squared Numbers
- Multiplication by Vertically & Crosswise, Mixed Operation, Cross Digit Sum to check the answers of addition, multiplication and subtraction

**Module 2 (9 Hrs):**

- Division by Nikhilam, Paravartya and Flag – Digits (Dhwajanka)
- Divisibility by denominator ending digits 1, 3, 7 & 9, Division by Sutras – Paravartya, Ekadhikena
- Concept of Baudhayana Number and Application

**Module 3 (9 Hrs):**

- HCF, Square Root using Vilokanam and Duplex, Cube Root upto 9 digits
- Complex Numbers using Baudhayana
- Factorization in Arithmetic, Quadratic and Cubic Expressions

**Module 4 (9 Hrs):**

- Solutions of Simple Equations, Linear Equations in Two Variables
- Division of Algebraic Expressions having Linear and Quadratic Divisor

**ASSESSMENT PROCEDURE and SUMMARY REPORT WITH  
OUTCOME:**

The Department of Mathematics and IQAC, Shyam Lal College in collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi organised 8 days Certificate Course for UG Students on Vedic Mathematics (CCVM) from December 15th to December 22nd 2021 with a total duration of 36 hours. It was conducted on the Zoom platform. CCVM addressed the various aspects related to Vedic Mathematics. The main objective of the course was to understand & comprehend the basic ideas, principles, methods & algorithms using some sutras of Vedic Ganit (mathematics and computation) as well as to understand some glorious facts from history of Bharatiya Ganit. 118 students and 12 faculty members attended the course. As per the Indian tradition, the event was inaugurated with Saraswathi Vandana. Shri Atul Kothari, National Secretary, Shiksha Sanskriti Utthan Nyas graced the occasion as the Chief Guest and Professor Balaram Pani, Dean of Colleges, University of Delhi as the Guest of Honour. The distinguished speakers were Prof. Anuradha Gupta, Department of Mathematics, DCAC, University of Delhi; Shri Anil Kumar Thakur, Education Culture Upliftment Trust, Delhi, Vedic Mathematics Coordinator, Delhi Province; Dr. Shriram Chauthaiwale, All India Convenor, Vedic Grant, Shiksha Sanskriti Utthan Nyas, New Delhi and Shri Rakesh Bhatia, National Coordinator of Vedic Mathematics, Shiksha Sanskriti Utthan Nyas, New Delhi.

Opening remarks for the event were given by Dr. Seema Guglani. She expounded that these eight days workshop is designed to help the students to overcome their fear of maths. In fact, Vedic maths is considered as the fastest way in the world to do mathematics. Besides that, it also makes the person confident and interested in the subject. She briefed the details of the course which hosted several different aspects of Vedic mathematics over the 8 days. Prof. Kusha Tiwari, Coordinator, IQAC emphasized that Vedic Mathematics cultivates an interest for numbers and eliminates the phobia of math present in most of the students.

It was followed by an inspirational speech by Prof. Rabi Narayan Kar, Principal of College under who's stewardship, our college recorded an unprecedented rise in the true Public-College character. He congratulated the Department for organizing such an event which directly benefits the students' progress in life. The Guest of Honour, Prof. Balaram Pani applauded the college for their initiative to ignite young minds with the concept of Vedic Mathematics. Shri Atul Kothari, Chief Guest of the program highlighted the need of research in Vedic Mathematics and its amalgamation with Modern Mathematics. All the eminent speakers emphasized on how Vedic Mathematics can help one remove their fear of maths and helps in the mental development of an

individual through the development of pattern reading skills and iterative process reading skills. The participants were also introduced to Swami Bharati Krishna Tirthaji Maharaj, who "rediscovered" Vedic Mathematics from the Vedas between 1911 and 1918. The inaugural session was concluded by the convenors Dr. Subodh Kumar and Sh. Balram Kindra, who extended their heartfelt gratitude to all the guests and speakers for their gracious presence and their inspiring words.

As this was an eight-day Course where various topics related to Vedic Maths were discussed in detail on the subsequent days by eminent educationists, a very beneficial academic environment was experienced by the participants. On the eighth day of the course, National Mathematics Day was celebrated to commemorate and honour the birth of the greatest mathematician Shri Srinivasa Ramanujan. The Quiz and PPT competition were the key events of the day. It was a very informative and knowledge enriching competition for the students.

Valedictory session was conducted on December 22nd 2021. Prof. B. V. Ramana Reddy, Dean, School of Engineering and Technology, GGSIPU was the Chief Guest. The renowned guests were Prof. Anuradha Gupta, Department of Mathematics, DCAC, University of Delhi and Shri Anil Kumar Thakur, Education Culture Upliftment Trust, Delhi, Vedic Mathematics Coordinator, Delhi Province. The highlights of the course were given by Dr. Ritu Aggarwal. Prof. Kusha Tiwari emphasized that knowledge of Vedic maths acquired by participants will provide a new insight into their academic capabilities. Prof. Rabi Narayan Kar in his welcome address informed us that our college is making an exemplary contribution towards Vedic maths by regularly starting courses on it. He delineates the importance of the topic in one's day-to-day life. Prof. B. V. Ramana Reddy, chief guest congratulated the college for such a venture and applauded the efforts of the Department of Mathematics. This was followed by reviews from several students who attended the course. Further, Shri Anil Kumar Thakur and Prof. Anuradha Gupta shared their experience as resource persons for the course and congratulated the organising team for the success of course. The vote of thanks was given by Sh. Balram Kindra. He highlighted the immense contribution of the Organizing Committee members and experts. He presented a special thanks to the Principal Prof. Rabi Narayan Kar. He also showed his gratitude towards faculties for facilitating the event. He heartily thanked all the speakers who spared their valuable time. He also thanked all the participants who made this event a grand success by participating wholeheartedly. The valedictory session ended with the national anthem.



**SLC (University of Delhi)**  
**Shyam Lal College**

**Department of Mathematics & IQAC**

*in collaboration with*

**Shiksha Sanskriti Utthan Nyas**

*is organizing a*

**Certificate Course for UG Students**

*(36 hours duration)*

*on*

**VEDIC MATHEMATICS**



Date : 15th - 22nd December, 2021

Live Sessions : **zoom** 

Registration Fee : Rs. 100/-



[Click here to register](#)

Dr. Subodh Kumar

Convenor

Balram Kindra

Convenor

Prof. Kusha Tiwari

Coordinator, IQAC

Prof. Rabi Narayan Kar

Principal

# SCHEDULE

Day	Date	First Session: 10:00 am to 12:00 pm	Second Session: 1:00 pm to 3:00 pm	3.00 pm to 4.00 pm
1	15 Dec, 2021 (Wednesday)	Inaugural Session Chief Guest: Shri. Atul Kothari Distinguished Guest: Prof. Balaram Pani	Sh. Anil Kumar Thakur Multiplication Ekadhikena Purven Eknuen Purven By Nikhilam	Discussion

Day	Date	First Session: 2.00 pm to 4:00 pm	Second Session: 4:00 pm to 6:00 pm	6.00 pm to 7.00 pm	
2	16 Dec, 2021 (Thursday)	Sh. Rakesh Bhatiya Square using Sutras- Ekadhikena Purvena Nikhilam & Duplex, Difference of squared numbers, Sum and difference of squared numbers	Sh. Rakesh Bhatiya Multiplication by Vertically & Crosswise, Mixed Operation, Cross digit sum to check the answers of addition, multiplication and subtraction	D I S C U S S I O N	
3	17 Dec, 2021 (Friday)	Prof. Anuradha Gupta Division by Nikhilam by Paravartya by Flag-digits (Dhwajanka)	Prof. Anuradha Gupta Divisibility by denominator ending digits 1, 3, 7 and 9, Division by Sutras-Paravartya, Essskadhikena		
4	18 Dec, 2021 (Saturday)	Dr. Kailash Vishwakarma Concept of Baudhyan number and Application	Sh. Anil Thakur HCF, Square root using Vilokanam and Duplex & Cube root up to 9 digits		
5	20 Dec, 2021 (Monday)	Sh. Anil Thakur Complex numbers using Baudhyan	Sh. Rakesh Bhatiya Factorization in arithmetic, Factorization of quadratic and cubic expressions		
6	21 Dec, 2021 (Tuesday)	Dr. Shriram Chauthaiwale Solutions of simple equations, Linear Equations in Two Variables	Prof. Anuradha Gupta Division of algebraic expressions having linear and quadratic divisor		
7	22 Dec, 2021 (Wednesday)	Valedictory Session			

# RESOURCE PERSONS



**CHIEF GUEST**

**Shri Atul Kothari**  
National Secretary

Shiksha Sanskriti Uthan Nyas



**Shri Rakesh Bhatia**

National Coordinator of Vedic Mathematics  
Shiksha Sanskriti Uthan Nyas  
New Delhi



**Shri Anil Kumar Thakur**

Education Culture Upliftment Trust, Delhi  
Vedic Mathematics Province Coordinator  
Delhi Province



**Prof. Anuradha Gupta**

Department of Mathematics  
DCAC, University of Delhi



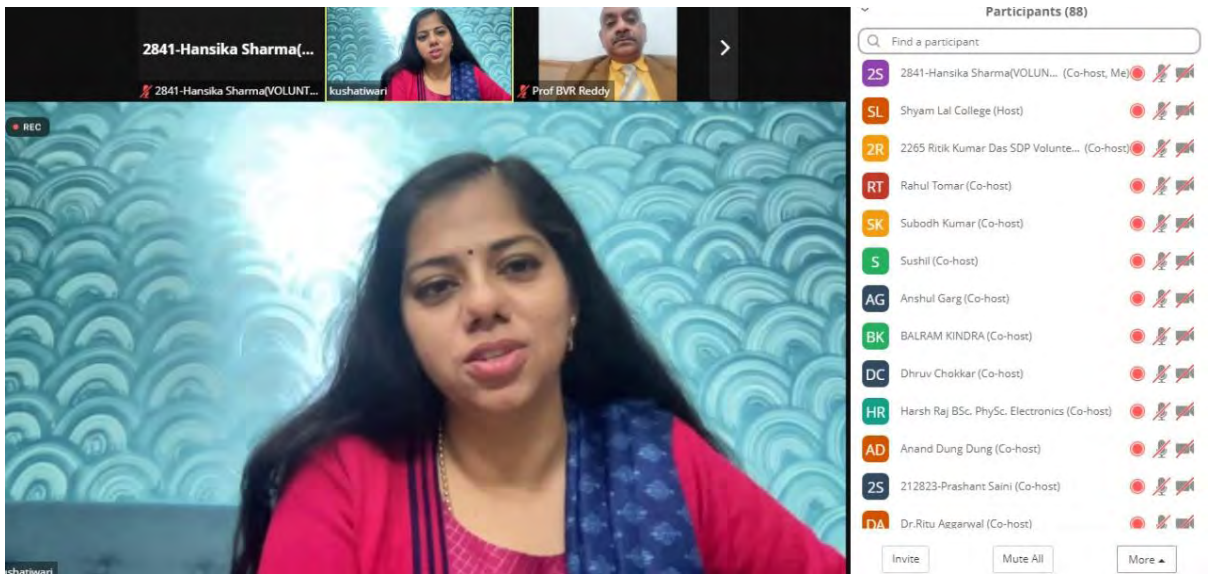
**Dr Shriram Chautaiwal**

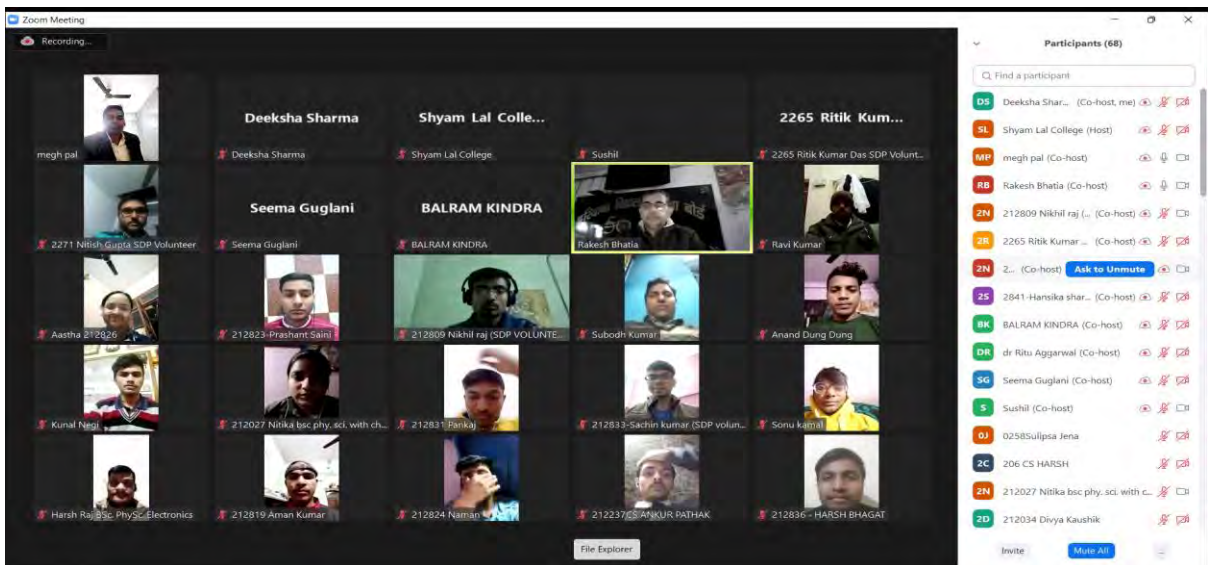
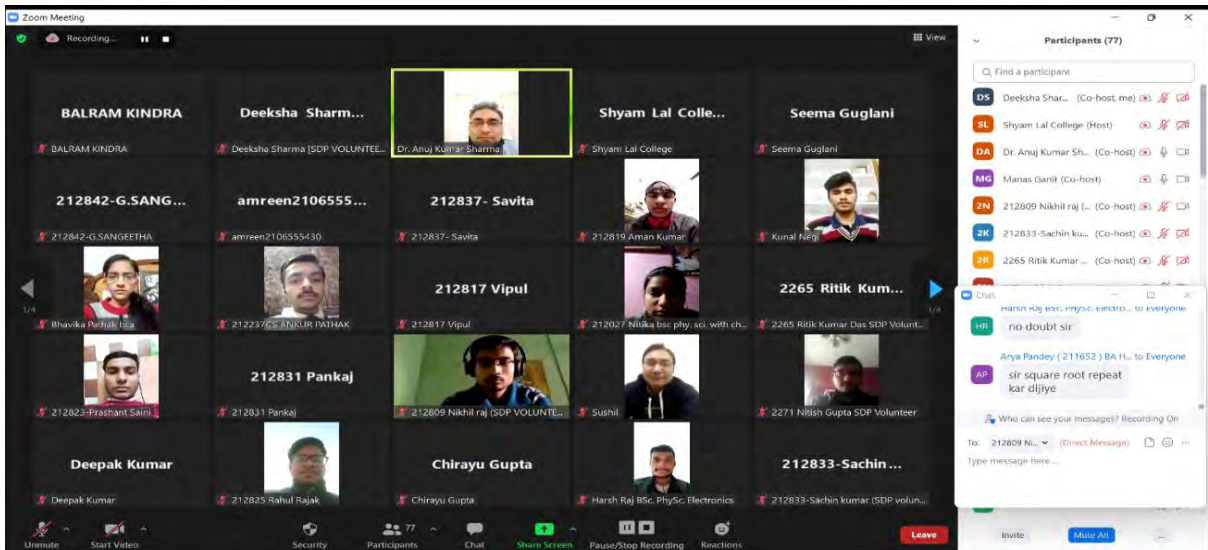
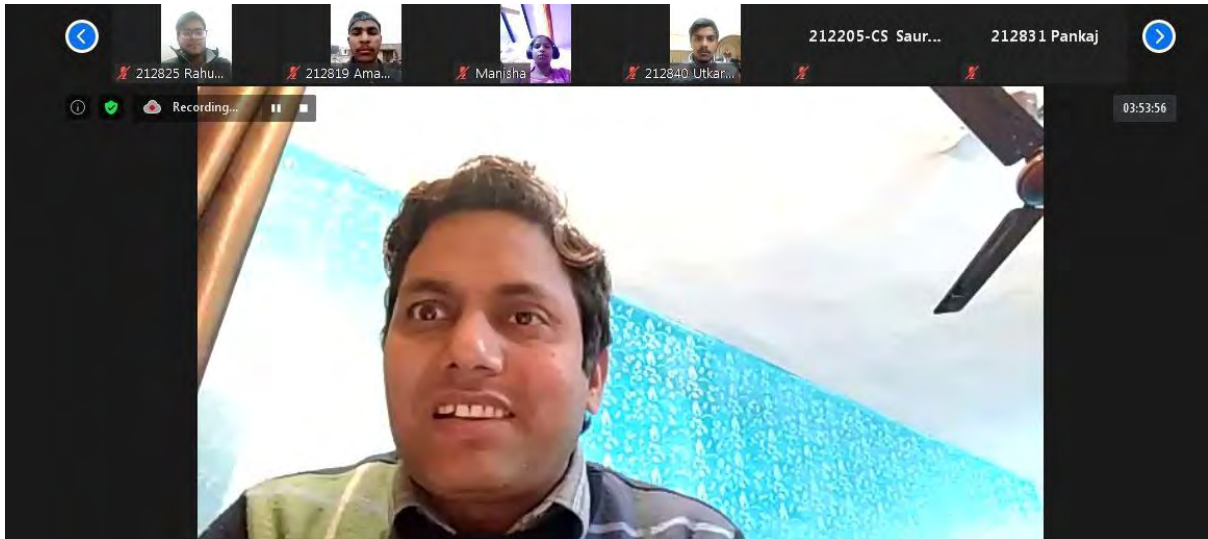
All India Convenor, Vedic Ganit  
Shiksha Sanskriti Utthan Nyas,  
New Delhi



**Dr. Kailash Vishwakarma**

Associate Professor & Head, Physics Department  
BNPG College Rath  
Hamirpur, U.P.







DR. ANUJ KUMAR SHARMA is presenting

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SLC(University of Delhi)  
Shyam Lal College  
Department of Mathematics & IQAC  
in collaboration with  
Shiksha Sanskriti Utthan Nyas, New Delhi  
celebrate  
National Mathematics Day  
21 December 2021

1:33 PM | qnd-fabx-bji

2841-Hansika Sharma(VOLUNTEER SDP)

Sourav Verma

2841-Hansika Sharma(VOLUNTEER SDP)

2265 Ritik Kumar Das SDP Volunteer

Rahul Tomar

Subodh Kumar

Mamta

Dr.Ritu Aggarwal

kushatiwari

Seema Guglani

Hansika Sharma -2841 ...

5101\_jigyasajain

Aniruddh pratap

Rohit

Hansika Sharma -2841 SDP VO...

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