Sh. L.N. Hindu College, Rohtak

Affiliated to M.D.University, Rohtak

A Post Graduate Co-Educational College, Bhiwani Road, Rohtak

Accredited by NAAC with 'B' (2.74) Grade

Certificate Course in Vedic Mathematics

Beneficiaries: All Students

Duration: 30 Hours

Course Overview:

Vedic Mathematics is the name given to the ancient system of Indian Mathematics which was rediscovered from the Vedas between 1911 and 1918 by Sri Bharati Krishna Tirthaji. According to his research, all of mathematics is based on sixteen Sutras or word-formulae. Vedic Mathematics will enable you to calculate much faster as compared to the conventional system. You will be able to do seemingly difficult calculations like 998 x 997 in split of seconds which will make a remarkable difference to your confidence and self esteem. Your calculation skills will improve which will make you able to perform in better way.

This course is designed to do calculations in Arithmetic, Algebra in simplified ways for speeding up calculations. These concepts will help you in your studies for the university examinations and also for the entrance examinations you will be facing in your life. This course will eradicates fear of Math completely. So if you have Math-Phobia, Vedic Mathematics is a fun-filled way to do Math. It arise interest, sharpens your mind, increases mental ability and increases your speed and accuracy. You will be learning how to speed up Multiplication, Division, Addition, Subtraction, finding squares in less than 5 seconds, Cubes, Cube Roots and Square Roots in 3 seconds, Sharpen your skills of Algebraic Equations and do it mentally, learn Divisibility rules for every number in the number system, Speed up concepts of Geometry, Calendars and much more.

Module 1 is introductory part of the course which deals with explanation of 16 sutras. Basic calculation like addition, subtraction is covered in this module. **Module 2** focused on calculation of Square and Cube Roots. **Module 3** explains simple, quadratic and simultaneous equations whereas **Module 4** aimed at imparting the students to understand various theorems like Pythagoras and Apollonius Theorem. Advanced concepts like Integration using partial functions and analytical geometry are also included in this module.

Learning Outcomes:

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- At the end of the course the students will be able to do calculations like multiplication, division, addition, subtraction, squares in less than 5 seconds, Cubes and Cube Roots in 3 seconds.
- This course will be helpful in sharpening the skills of Algebraic Equations and does it mentally, learning divisibility rules for every number in the number system, speed up concepts of Geometry, finding out divisibility rules for every number in the number system, Calendars and much more.
- Student's paradigm about mathematics will be changed and they will be able to enjoy it more than ever did.
- By the end of each topic students will have a better understanding of the mental math method being explained and they will be able to calculate 10-15 times faster than before.
- This course will also be helpful to get rid from Math phobia and learner will become a human calculator itself after the completion of this course. This course will sharpen the mind of learner and increases his mental agility and intelligence

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SYLLABUS

Note: The Examiner will be required to set nine questions in all. Question No. 1 is compulsory containing 10 short questions carrying equal marks (2 marks each) covering the entire syllabus. In addition examiner will set two questions from each section/unit from the given four units of syllabus. The candidate will be required to attempt five questions in all selecting at least one question from each unit.

Unit-1: Parichaya & Buniyadi Ganna (Introduction & Basic Calculations)

- History, Evolution & Introduction to Vedic Mathematics
- Development of Vedic Mathematics
- 16 Sutras of Vedic Mathematics
- Addition
- Subtraction
- Multiplication
- Division

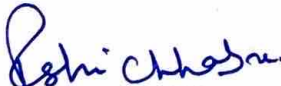## Unit-2: Ankaganita (Arithmetic)

- Divisibility
- Square & Square Roots
- Cube & Cube Roots
- Decimals

Unit-3: Beejganita (Algebra)

- Factorization
- HCF
- Simple Equations
- Quadratic Equations
- Cubic Equations
- Bi-Quadratic Equations
- Simultaneous Equations

Unit-4: Ganna (Calculus)

- Pythagoras Theorem
- Apollonius Theorem
- Factorization and Differential Calculus
- Partial Functions
- Integration Using Partial Functions
- Analytical Conic Geometry

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Suggested Readings:

- Higher Applications of Vedic Mathematics by Dr. Narinder Puri:Prakash Book Depot.
- Vedic Mathematics made easy by Pandit Ramnandan Shashtri: Arihant Publications.
- Vedic Ganit Sutra by Dr. Alok Kumar : Upkar Publications.
- Vedic Ganit: Swami Bharti krishnateerath Ji Maharaj" by Dr. Vasudev Sharan Aggarwal: Motilal Banarsidas Publishers.

Note: Latest and additional good books may be suggested and added from time to time.

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Registration List for the Session   2019-20

of Course   in Vedic Mathematics

Course Coordinator   Dr. Sunny Kapoor

Sr no	Name of Student	Class	Roll No	Signature
1	Gautam	B.Sc. 2nd Year	3229	Gautam
2	Dikshita	B.A. Ist yr.	283	Dikshita
3	Nidhi	B.Sc. Ist	5431	Nidhi
4	Kajal	B.Sc. 2nd Yr.(NM)	3233	Kajal
5	Khushboo	B.Sc. Ist Yr.	5416	Yogita, Khushbu
6	Yogita	B.Sc. Ist Yr.	5417	Yogita
7	Nandita	B.Sc. 2nd Yr.	3209	Nandita
8	Sneha	B.Sc. 2nd (NM)	3216	Sneha
9	Anand	B.Sc. 2nd Yr.	3222	Anand
10	Nidhi	B.A. Ist Yr.	331	Nidhi
11	Moksh	BSc. Ist	5415	M-
12	Loveleen	B.Sc. Ist Yr.	5407	Loveleen
13	Rajneesh	B.Sc. (N.M.)	3217	Rajneesh
14	Sumit Ghlawat	B.Sc. (I)	5414	Sumit G.
15	Ridhi	B.Sc. Ist Yr.	5424	Ridhi
16	Khushi	B.A. Ist	503	Khushi
17	Samridhi	B.Sc. 2nd yr.	3215	Samridhi
18	Priyanka Arora	B.Sc. 2nd Yr.	3218	Priyanka
19	Bhawana	B.Sc. Ist Yr.	5401	Bhawana
20	Shreya	B.Sc. Ist Yr.	5434	Shreya
21	Jayati	BSc. Ist	5423	Jayati
22	Pooja Goel	B.Sc. Ist Yr.	5410	Pooja
23	Muskan	B.Sc. Ist Yr.	5438	Muskan
24	Shital	B.Sc. Ist Yr.	5418	Shital
25	Sweety Kumari	B.A. Ist Yr.	129	Pushap
26	Tushar Sharma	BSc. 2nd Yr.	3227	Tushar
27	Tannu	B.A. Ist Yr.	231	TANNU
28	Ishani	B.Sc. 2nd Yr.	3208	Ishani
29	Annu	B.A. (Ist)	55	AM
30	Arti	B.Sc. 2nd Yr.	3206	Arti
31	Pooja	B.A. Ist Yr.	91	Pooja
32	Sawan Malik	B.A. 2nd Yr.	1290	Sawan
33	Ankit	B.A. 2nd Yr.	1044	Ankit
34	Sweety Kumari	B.A. Ist Yr.	129	Sweety
35	SHANKY	B.A. 2nd Yr.	1383	SHANKI
36.	Sweety	B.Sc. IInd yr.	5430	Sweety
37.	Paras	B.Sc. II yr.	3222	Paras
38.	Sakshi Jain	B.Com(A) Final	3365	Jain
39.	Shivani	B.Sc. Ist year	5441	Shivani

Sunny Kapoor

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Award List (Including Internal Assessment & Final Theory examination) with grades of successful students regarding online certificate course in Vedic Mathematics

Course Coordinator: Dr. Sunny Kapoor

Sr. No.	Name	Class	Roll No.	I. Assessment (M.M. 40)	Theory Exam (M.M. 60)	Total Marks (100)	Grade
1.	Gautam	B.sc. 2nd year	3229	38	54	92	A
2	Nidhi	Bsc 1st	5431	40	56	96	A
3	Kajal	Bsc 2nd year(non medical)	3233	38	50	88	A
4	Khushboo	Bsc 1st year	5416	37	43	80	A
5	Yogita	B.Sc.(1st year)	5417	34	58	92	A
6	Nandita	Bsc 2nd year	3209	40	55	95	A
7	Sneha	Bsc 2nd (non med)	3216	36	54	90	A
8	Paras	Bsc 2nd year	3222	36	45	81	A
9	Moksh	BSc 1st	5415	36	54	90	A
10	Loveleen	Bsc 1st year	5407	40	58	98	A
11	Rajneesh	B.Sc. Non - Medical	3217	38	54	92	A
12	Ridhi	B.Sc. 1st year	5424	38	58	96	A
13	Khushi	B.A 1st	503	36	50	86	A
14	Samridhi	Bsc 2year	3215	38	56	94	A
15	Priyanka Arora	Bsc 2nd year	3218	38	51	89	A
16	Bhawana	B.sc 1st.year	5401	40	52	92	A

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17	Shreya	BSc. 1st year	5434	40	54	94	A
18	Jayati	Bsc 1st	5423	38	58	96	A
19	Pooja goel	Bsc 1st year	5410	38	56	94	A
20	Muskan	Bsc 1st year	5438	38	56	94	A
21	Shital	Bsc 1 year	5418	30	52	82	A
22	Sweety Kumari	B.A 1st year	129	35	26	61	C
23	Tushar sharma	Bsc 2nd year	3227	38	32	70	B
24	Ishani	B.Sc (2nd year)	3208	40	54	94	A
25	Annu	B. A (1st)	55	36	46	82	A
26	Arti	B.sc,3rd year	3206	38	50	88	A
27	Sakshi Jain	B.Com H(Final)	3365	35	35	70	B
28	Sweety	B.Sc. 1 year	5430	38	43	81	A
29	Shivani	B.Sc. 1 year	5441	38	22	60	C

Sunny Kapoor
Dr Sunny Kapoor
(Course Coordinator)
Asst. Prof- in Mathematics

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