

PANCHAKOT MAHAVIDYALAYA
SARBARI, NETURIA, PURULIA
Affiliated to Sidho Kanho Birsha University, Purulia



Department of Mathematics

Add-on/ Certificate Course

**Certificate Course in Vedic
Mathematics**

Session: 2021-2022

Brochure



Panchakot Mahavidyalaya

SARBARI, NETURIA, PURULIA, WEST BENGAL

Certificate Course in Vedic Mathematics

Add On Course, Dept. of Mathematics

Duration: 30 hrs.

For detailed schedule log-on to: www.panchakotmv.ac.in

Course Coordinator: Sandip Kumar Maiti,
HOD, Dept. of Mathematics

About This Course: Who doesn't like to complete a complicated task fast and efficiently? Moreover, if it is the task of solving mathematical problems, students tend to find the answers in a shorter method. To them, this mathematics seems a tough deal. But the funny thing is, an Indian mathematician taught us the easy routes to the solutions to tough sums, and named it Vedic Ganit. The formal name is Vedic Mathematics.

The mathematician wanted the students to be able to pave easier ways to solve hard sums.

Vedic mathematics is more creative than the conventional mathematics. Different kinds of mathematical problems can be answered quickly using the techniques of Vedic Mathematics. Those who want to crack various competitive examinations, Vedic Mathematics can help you in your preparation, if you learn and practice the techniques.

Course Outcome

After learning Vedic Mathematics, the problems like addition, subtraction, multiplication, division, along with the calculations of percentage, ratios, which take longer during your competitive examinations, can be solved in few minutes. Even the problems of Trigonometry become easier using the Vedic Mathematical techniques.

Course Content

Addition and subtraction (যোগ এবং বিয়োগ)- 2 hrs
Multiplication (গুণ)- 2 hrs
Division (ভাগ)- 2 hrs
Square (বর্গ নির্ণয়)- 2 hrs
Square root (বর্গমূল নির্ণয়)- 2 hrs
Cube (ঘন নির্ণয়)- 2 hrs
Cube root (ঘনমূল নির্ণয়)- 2 hrs
Digit sum- 8 hrs
Dates and Calendars- 2 hrs
Solving equations- 2 hrs
Tips for competitive exams- 4 hrs

To
The Principal
Panchakot Mahavidyalaya
Sarbari, Neturia, Purulia

Applicant: Sandip Kumar Maiti, HOD, Department of Mathematics

Subject: Proposal for 'Certificate Course in Vedic Mathematics' for the session 2021-2022


Respected Sir,

With respect to the above mentioned subject, I am submitting herewith the proposal to conduct the certificate course in "Certificate Course in Vedic Mathematics" by the department of Mathematics of our college. This course will create environment-awareness among the students, providing them practical knowledge to deal with environmental hazards.

Hope you will consider my application and I kindly request you to sanction the same.

Date: 17.03.2022

Place: Sarbari


Your sincerely,
HOD, Mathematics

Enclosure: (1) Proposal
(2) Curriculum of the course

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

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Proposal for conducting Short Term Certificate Courses Session: (2021-2022)

1. Details of the applicant department:

- I. Name of the college: Panchakot Mahavidyalaya,
- II. Address of the college: Sarbari, PO: Neturia, District: Purulia, Pin: 723121
- III. Name of the applicant department: Mathematics

2. Details of the course proposed:

- I. Name of the course: Vedic Mathematics
- II. Target participants: Undergraduate students from any stream
- III. Duration of the course: 30 hrs.
- IV. Medium of instruction: English

3. Details of the faculty:

- I. Whether the college provides degree related to the proposed course: No
- II. Whether the course is prepared by experts from related field: yes (by departmental faculty)
- III. Information of course coordinator:

Name	Department	Qualification
Sandip Kumar Maiti	Mathematics	M. Sc. (Mathematics)

IV. Details of faculty members to be appointed for this course:

Sr. No.	Name	Department	Qualification
1	Sandip Kumar Maiti	Mathematics	M. Sc. in Mathematics
2	Chandra Mohan Maji	Mathematics	M.Sc. in Mathematics

4. Details of the infrastructure needed/available for this course:

- I. Classroom: Available
- II. Books: Available in central library
- III. Computer facility: Computer lab and departmental computer facility


Signature of Course coordinator

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

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Department of Mathematics

Certificate Course in Vedic Mathematics

Syllabus (2021-2022)

Duration: 30 hrs

Module 1 (6 hrs)

- Number Sense for Addition
- Mental Maths Addition
- Addition with numbers near to 10 or multiple of 10
- Left to Right Addition-2 digit
- Left to Right Addition – 3 digit
- Rapid Addition- Single to Double Digit
- Rapid Addition – Double to Double Digit
- Rapid Addition – Triple to triple digit
- Number Splitting
- Trachtenberg- Addition

Module 2 (6 hrs)

- Subtraction
- Number sense for Subtraction- Warm ups
- Mental Maths Subtraction
- Subtraction with Numbers near 10 and multiple of 10
- Subtraction Compliments
- Subtraction using Nikilam 3 digit, 4 digit, 5 digits
- Introduction to Multiplication
- Table of 2-25
- Mental Maths Multiplication
- Simple Multiplication
- Introduction to Division
- Word Problems on addition, subtraction, multiplication and division

Module 3 (6 hrs)

- Multiplication of two digit numbers by 11
- Multiplication of three digit numbers by 11
- Multiplication of four digit numbers by 11
- Multiplication by 12
- Multiplication by Thumb Rule
- Multiplication of two same digit numbers
- Multiplication of numbers using the base 10, 100, 1000
- Multiplication of Multiples and Submultiples
- Multiplication of Number series of 9
- Multiplication of numbers by Criss-Cross Method

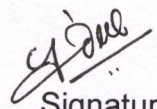
Module 4 (6 hrs)

- Digital Roots
- Divisibility
- Fractions
- Squares
- Cubes
- Square Roots
- Cube Roots
- Division of Double Digit Numbers

Module 5 (6 hrs)

- Dates and Calendars
- Solving Equations

Assessment: Written Test and/or Viva-Voce



Signature
Course Coordinator

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Mathematics

Certificate Course in Vedic Mathematics (2021-2022)

Course coordinator: Sandip Kumar Maiti, HOD, Mathematics

Details of the Course

Course Objective: If it is the task of solving mathematical problems, students tend to find the answers in a shorter method. To them, this mathematics seems a tough deal. But the funny thing is, an Indian mathematician taught us the easy routes to the solutions to tough sums, and named it Vedic Ganit. The formal name is Vedic Mathematics. The mathematician wanted the students to be able to pave easier ways to solve hard sums.

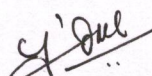
Vedic mathematics is more creative than the conventional mathematics. Different kinds of mathematical problems can be answered quickly using the techniques of Vedic Mathematics. Those who want to crack various competitive examinations, Vedic Mathematics can help students in their preparation, if they learn and practice the techniques.

Schedule

Day	Hours	Timing/Duration	Resource Person	Venue	Topic
1	02	4:00-6:00 PM	Sandip Kumar Maiti (SKM)	Dept of Mathematics	Module 1
2	02	4:00-6:00 PM	Chandra Mohan Maji (CMM)	Dept of Mathematics	Module 1
3	02	4:00-6:00 PM	SKM	Dept of Mathematics	Module 1
4	02	4:00-6:00 PM	CMM	Dept of Mathematics	Module 2
5	02	4:00-6:00 PM	SKM	Dept	Module 2

				ofMathematics	
6	02	4:00-6:00 PM	CMM	Dept ofMathematics	Module 2
7	02	4:00-6:00 PM	SKM	Dept ofMathematics	Module 3
8	02	4:00-6:00 PM	CMM	Dept ofMathematics	Module 3
9	02	4:00-6:00 PM	SKM	Dept ofMathematics	Module 3
10	02	4:00-6:00 PM	CMM	Dept ofMathematics	Module 4
11	02	4:00-6:00 PM	SKM	Dept ofMathematics	Module 4
12	02	4:00-6:00 PM	CMM	Dept ofMathematics	Module 4
13	02	4:00-6:00 PM	SKM	Dept ofMathematics	Module 5
14	02	4:00-6:00 PM	CMM	Dept ofMathematics	Module 5
15	02	4:00-6:00 PM	SKM	Dept ofMathematics	Module 5

Expected Outcome: After learning Vedic Mathematics, the problems like addition, subtraction, multiplication, division, along with the calculations of percentage, ratios, which take longer during your competitive examinations, can be solved in few minutes. Even the problems of Trigonometry become easier using the Vedic Mathematical techniques.


 Signature
 Course Coordinator

PANCHAKOT MAHAVIDYALAYA

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Department of Mathematics
Certificate Course in Vedic Mathematics (2021-2022)

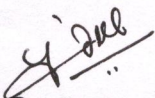
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Date: 25.03.2022

Notice

The Department of Mathematics at Panchakot Mahavidyalaya is pleased to offer a certificate course in Vedic Mathematics in offline mode from 02/03/2022 to 29/04/2022. Students interested in enhancing their skills and knowledge in this field, are encouraged to reach out to the departmental head for more information and enrollment details.

The information brochure, course details and schedule is available at the concerned department and also on college website.


HOD, Department of Mathematics


Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari-Neturia-Purulia
Principal,

Panchakot Mahavidyalaya
Sarbari, Neturia, Purulia

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

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
Department ofMathematics.....

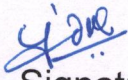
Certificate Course NameVedic Mathematics.....

Session: (20.21.-20.22..)

List of Enrolled Students

Sr. No.	Students Name	Roll Number	Seme ster	Student Signature
1	APARNA GORAI	210000464		Aparna Gorai
2	MONISHA TUDU	210000807	Sem 2	Monisha Tudu
3	KHAM GOPE	210000495	11	Khama Gope
4	PIJUSHI CHAKRABORTY	210000577	2	Pijush Chakraborty
5.	PUJA TANTUBAY	2020012287	2	Puja Tantubay
6.	SUJATABAURI	210001044	2	Sujata Bauri
7.	PUJA BOURI	210001707	Sem 2	Puja Bouri
8.	IRFAN ANSARY	210000151	2	Irfan Ansari


Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari-Neturia-Purulia


Signature
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 Department of Mathematics

Certificate Course : Vedic Mathematics.....
 Session: (2021.....-2022.....)

Attendance Sheet

Sr. No.	Name of Student	Day and Month															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	APARNA GORAI	p	p	b	p	b	p	b	p	b	p	b	p	b	p	b	
2	MONISHA TUDU	p	p	b	p	b	p	.	p	b	p	p	p	b	p	b	
3	KHAM GOPE	b	p	b	p	b	p	b	p	b	p	p	p	b	p	b	
4	PIJUSH CHAKRABORTY	b	p	b	p	b	p	b	p	b	p	p	p	.	p	b	
5	PUJA TANTUBAY	b	p	b	.	b	p	b	p	b	p	p	p	b	p	b	
6	SUJATA BAURI	b	p	b	p	b	p	b	p	b	p	p	p	b	p	b	
7	PUJA BOURI	b	p	b	p	b	p	b	.	b	p	p	p	b	p	b	
8	IRFAN ANSARY	b	p	b	p	b	p	b	p	b	p	p	p	b	p	b	

Principal
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Course Coordinator

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Department of ...Mathematics...

Certificate Course:

Vedic Mathematics

Session: (20.21....-20.22.)

Result

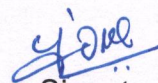
Full Marks:

Sr. No.	Name of Student	Marks Obtained
1	APARNA GORAI	A
2	MONISHA TUDU	A
3	KHAMA GOPE	B
4	PIJUSH CHAKRABORTY	B
5	PUJA TANTUBAY	B
6	SUJATA BAURI	A
7	PUJA BOURI	A
8	IRFAN ANSARY	A



Principal

PANCHAKOT MAHAVIDYALAYA
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Signature

Course Coordinator



Affiliated to Sidho Kanho Birsha University, Purulia
PANCHAKOT MAHAVIDYALAYA
SARBARI, NETURIA, PURULIA
Add On/ Certificate Course

Organized by: Department of Mathematics

CERTIFICATE OF COMPLETION

Session: (2021-2022.)

This is to certify that Mr./Ms. APARNA GORAI Department has successfully completed Add
of History (Hons.)

On/Certificate course entitled:

Vedic Mathematics

for session 2021-2022

S. G. G.

Course Coordinator

S. G. G.

HOD (Organizing Dept)

S. G. G.

Principal

Principal

PANCHAKOT MAHAVIDYALAYA
Sarbari-Neturia-Purulia