



GOVT. V.Y.T. PG AUTONOMOUS COLLEGE,
DURG, CHHATTISGARH, INDIA

(Erstwhile: Govt. Arts & Science College, Durg)

CPE Phase- III By UGC

Awarded Star College by DBT, New Delhi



Proposed Syllabus
for Certificate Course
in

VEDIC GANIT

Session 2022-2023 onwards

by

Department Of Mathematics



DEPARTMENT OF MATHEMATICS
GOVT. V. Y. T. PG. AUTONOMOUS COLLEGE
DURG 491001(C.G.)

CVG 101	Vedic Ganit	L	T	P	C
		2	0	0	2

Max. Marks: 100

Internal Assessment-30
End Sem-70

Unit-I : Multiplication, Division, Divisibility and Factorization

The necessity to learn vedic ganit, Number system, Complements of a number, Vinculam numbers, digital roots. A brief of Addition, subtraction, idea of base numbers.

Part A : Multiplication

1. Ekadhikenpurven method (multiplication of two numbers of two digits)
2. Eknunenpurven method (multiplication of two numbers of three digits)
3. Urdhvataragbhyam method (multiplication of two numbers of three digits)
4. Nikhilam Navtashchramam Dashtaha (multiplication of two numbers of three digits)
5. Combined Operations

Part B : Division

1. Nikhilam Navtashchramam Dashtaha (two digits divisor)
2. Paravartya Yojyet method (three digits divisor)

Unit-II

Part A : Divisibility

1. Ekadhikenpurven method (two digits divisor)
2. Eknunenpurven method (two digits divisor)

Part B : Division & Factorization

1. Division (Divisor: Linear expression of single variable)
2. Factorization (Quadratic expression of single variable)

Unit-III : Power and Root

Power : (i) Square (two digit numbers), (ii) Cube (two digit numbers).

Root : (i) Square root (four digit number) (ii) Cube root (six digit numbers)

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Unit-IV : LCM, HCF.


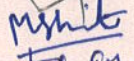

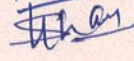

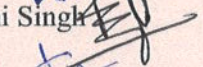
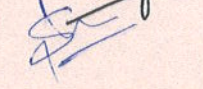

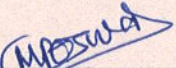
Unit-V : Contribution of Indian Mathematicians

- 1 Aryabhata
- 2 Baudhayana
- 3 Brahmagupt
- 4 Madhavan
- 5 Parmeshvaran

Recommended Books:

1. Vedic Mathematics, *Motilal Banarsi Das, New Delhi.*
2. Vedic Ganita: Vihangama Drishti-, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
3. Vedic Ganita Praneta, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
4. Vedic Mathematics: Past, Present and Future, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
5. *Enjoy Vedic Mathematics, Shriram Chauthaiwale & Ramesh Kolluru, Sri Sri Publication Trust, Bangaluru.*
6. Leelavati, *Chokhambba Vidya Bhavan, Varanasi.*
7. Bharatiya Mathematicians, *Sharda Sanskrit Sansthan, Varanasi.*
8. Beejganitam, *Chokhambba Vidya Bhavan, Varanasi.*

Name & Signature

Chairperson / H.O.D - Dr. M.A. Siddiqui 	Faculty members -
Subject Expert - Dr. Madhu Srivastava 	Dr. Padmavati 
Subject Expert - Dr. Shabnam Khan 	Dr. Rakesh Tiwari 
Subject Expert - Dr. S. K. Bhatt	Dr. (Smt.) Prachi Singh 
Representative Members -	Dr. Shobha Rani 
Dr. Anil Kashyap - 	
Shri A. K. Pandey -	
Dr. Mayur Puri Goswami - 	

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CVG 102	Vedic Ganit	L	T	P	C
		2	0	0	2

Max. Marks: 100

Internal Assessment-30
End Sem-70

Unit-I Solution of linear simultaneous equations

Unit-II : Trigonometry

1. Definitions of trigonometric ratios
2. Trigonometric Identities

Unit-III : Multiplication (Quadratic Expression s of single variable)

1. Urdhvagirbhayam method
2. Combined Operations

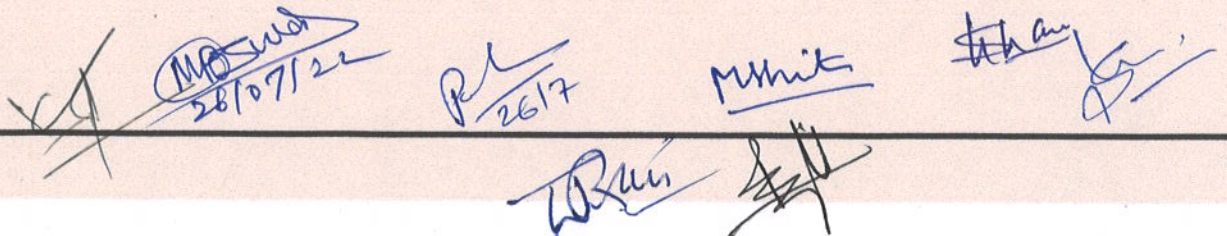
Unit-IV : Coordinate Geometry

Unit- V : : Contribution of Indian Mathematicians

1. Mahaveeracharya
2. Bharti Krishna Tirtha
3. Varahmihir
4. Bhaskaracharya
5. Neelkanth Somayya

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2. Vedic Ganita: Vihangama Drishti-, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
3. Vedic Ganita Praneta, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
4. Vedic Mathematics: Past, Present and Future, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
5. *Enjoy Vedic Mathematics, Shriram Chauthaiwale & Ramesh Kolluru, Sri Sri Publication*


A collection of handwritten signatures and dates in blue ink. From left to right: a signature with a date '28/07/22', a signature 'R.L.' with '26/7', a signature 'Munick', a signature 'S.K.', and another signature.

Trust, Bangaluru.

6. Leelavati, Chokhambba Vidya Bhavan, Varanasi.
7. Bharatiya Mathematicians, Sharda Sanskrit Sansthan, Varanasi.
8. Beejganitam, Chokhambba Vidya Bhavan, Varanasi

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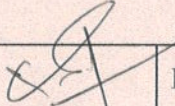
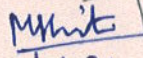
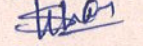
Faculty members -

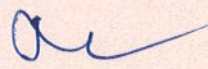
Dr. Padmavati

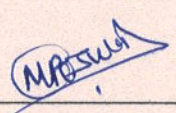
Dr. Rakesh Tiwari





Dr. (Smt.) Prachi Singh

Dr. Shobha Rani





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CVG 103	Assignment & Presentation Work	L	T	P	C
		0	0	2	2

Max. Marks: 50

Project- 30
Viva-20

1. Original Manuscript on any one of the following subjects:

- (i) Vedic Mathematics
- (ii) Contribution of Indian Mathematicians
- (iii) Ancient Bharatiya Mathematical Work (Leelavati, Sulba Sutra, Ganita Kaumudi etc. or any other Ancient Indian Text)

The manuscript may be a review article based upon personal observations or research article giving some new idea.

2. Candidates may deliver lecture in any educational institute (School or College) on Vedic Mathematics and feedback from head of the institute may be submitted to the College. Feedback must be on letter head of the institute duly signed and stamped.

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