



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Name of the Program: Undergraduate Programs

SUBJECT CODE	Category	SUBJECT NAME									
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
GUMA101	Generic Elective	Vedic Mathematics	60	20	20	-	-	4	0	0	4

Course Objective

To promote the traditional knowledge of mathematics, mastered by the mathematicians of ancient India

Course Outcomes

After the successful completion of this course, students will be able to:

- Improve calculation speed and numerical skills
- Facilitate a habit of analytical thinking and a measured approach toward any problem
- Provide an insight into ancient Indian mathematics
- Improve critical thinking

UNIT- I

Vedic Maths- High-Speed Addition and Subtraction

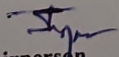
- Vedic Maths: History of Vedic Maths and its Features.
- Vedic Maths formulae: Sutras and Upsutras.
- Addition in Vedic Maths: Without carrying, Dot Method.
- Subtraction in Vedic Maths: Nikhilam Navatashcaramam Dashata (All from 9 last from 10).
- Fraction -Addition and Subtraction.

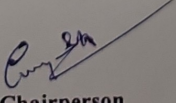
UNIT- II Vedic Maths- Miracle Multiplication and Excellent Division

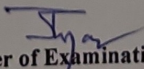
- Multiplication in Vedic Maths: Base Method (any two numbers up to three digits).
- Multiplication by Urdhva Tiryak Sutra.
- Miracle multiplication: Any three-digit number by series of 1's and 9's.
- Division by Urdhva Tiryak Sutra (Vinculum method).

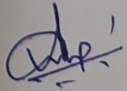
UNIT- III Vedic Maths-Lightening Squares and Rapid Cubes

- Squares of any two-digit numbers: Base method
- Square of numbers ending in 5: Ekadhikena Purvena Sutra
- Easy square roots: Dwandwa Yoga (duplex) Sutra
- Square root of 2: Baudhayana Shulbasutra
- Cubing: Yavadunam Sutra


Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Name of the Program: Undergraduate Programs

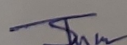
SUBJECT CODE	Category	SUBJECT NAME									
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
GUMA101	Generic Elective	Vedic Mathematics	60	20	20	-	-	4	0	0	4

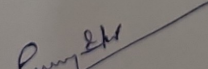
UNIT- IV Vedic Maths-Enlighten Algebra and Geometry

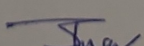
- Factoring Quadratic equation: Anurupyena, Adyamadyenantyamanty Sutra
- Concept of Baudhayana (Pythagoras) Theorem
- Circling a square: Baudhayana Shulbasutra
- Concept of pi: Baudhayana Shulbasutra
- Concept angle(θ) $0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90° : Baudhayana number

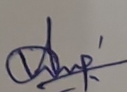
TEXT BOOKS:

1. Sri Bharati Krsna Tirthaji, "Vedic Mathematics", published by Motilal Banarsidass, 1965. ISBN 81-208-0163-6.
2. Williams K.R. "Discover Vedic Mathematics." Vedic Mathematics Research Group, 1984. ISBN 1-869932-01-3.
3. Williams K.R. and M. Gaskell "The Cosmic Calculator". Motilal Banarsidass, 2002. ISBN 81-208-1871-7.
4. Nicholas A.P., Williams, J. Pickles. "Vertically and Crosswise". Inspiration Books, 1984. ISBN 1-902517-03-2.


Chairperson
Board of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Chairperson
Faculty of Studies
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Controller of Examinations
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore


Registrar
Shri Vaishnav Vidyapeeth
Vishwavidyalaya, Indore