



# C. U. SHAH UNIVERSITY, WADHWAN CITY.

Faculty of Science & Life Science

Course: **Bachelor of Science (Mathematics)**

Semester: **II**

Subject Code: **VAC202-1C**

Subject Name: **Vedic Mathematics**

Sr. No	Category	Subject Code	Subject Name	Teaching hours/ Week			Credit hours	Credit Points	Evaluation Scheme/ Semester								
				Th	Tu	Pr			Theory				Tutorial / Practical				Total
									Continuous and Comprehensive Evaluation		End Semester Exams		Internal Assessment		End Semester Exams		
									Marks	Marks	Marks	Duration	Marks	Duration	Marks	Duration	
7	VAC	VAC202-1C	Vedic Mathematics	2	-	0	2	2	10	Assignment	25	1	25	1	-	-	50
									10	Quiz							
									05	Attendance							

## Course Objective :

- To enable the learners to explore the power of Vedic Mathematics.
- To make learners strong in Numerical Mathematics.
- To enable learners to recognize and understand simple techniques of Arithmetic Calculations.
- To train learners to use the ideas of Vedic Mathematics in daily calculations and make those calculations with accuracy and speed.

## COURSE CONTENTS

### Course Outline for Theory

UNIT	COURSE CONTENT	TEACHING HOURS
<b>I</b>	History and Evolution of Vedic Mathematics, Introduction of Basic Vedic Mathematics Techniques in Multiplication (Special Case, Series of 9, Series of 1 etc.), Tables etc. Various techniques to carry out basic operations covering addition, subtraction, multiplication, division	<b>10</b>
<b>II</b>	Multiplications by numbers near base, Verifying answers by use of digital roots, Divisibility tests, Division of numbers near base, Cubes, Cube roots, square roots, General division	<b>10</b>
<b>III</b>	Quadratic Equations, Simultaneous Equations, Use of various Vedic Techniques for answering numerical aptitude questions from Competitive Examinations	<b>10</b>

### TEACHING METHODOLOGY:

Conventional method (classroom blackboard teaching)

ICT Techniques

Teaching through the classroom

Variety of learning styles and tools (PowerPoint presentations, audio-visual resources, e-resources, seminars, workshops, models)

**LEARNING OUTCOME:**

By successfully completing this course, the learner will be able to:

- Perform simple arithmetic calculations with speed and accuracy.
- Will be able to generate tables of any number.
- To perform products of large numbers quickly.
- Develop confidence in calculating square roots and cube roots of integers.
- Perform difficult calculations speedily.
- Face Numerical Aptitude part of any Competitive Examination confidently.

**Arrangement of lectures duration and practical session as per defined credit numbers:**

Units	Lecture Duration (In Hrs.)		Calculation of Credits (In Numbers)		Total Lecture Duration	Credit Calculation
	Theory	Practical	Theory	Practical	Theory+ Practical	Theory+ Practical
Unit – 1	10	-	2	0	10	2
Unit – 2	10	-			10	
Unit – 3	10	-			10	
<b>TOTAL</b>	30	-	2	0	30	2

**Evaluation:**

Theory Marks	Practical Marks	Total Marks
50	-	50

**REFERENCE BOOKS:**

1. Vedic Mathematics Made Easy ,**Bhatiya Dhaval**, , *Jaico Publishing House*
2. Vedic Mathematics for students taking Competitive Examinations.Thakur, **Rajesh Kumar**,  
*Unicorn Books 2015 or Later Edition*
3. Power of Vedic Mathematics with Trigonometry, **Gupta Atul**, , *Jaico Books*
4. Magical World of Mathematics ,**V. G. Unkalkar**, Vandana Publishers, Bangalore