



(Shri Ramkrishna Seva Mandal's)
ANAND COMMERCE COLLEGE

An Autonomous College (2025-26 to 2034-35)

(Affiliated to Sardar Patel University)

NAAC ACCREDITED 'A' GRADE (3.04 CGPA)

ISO 9001:2015

Syllabus as per NEP 2020 with effect from the Academic Year 2025-26



Bachelor of Vocation
BANKING & FINANCIAL SERVICES
B Voc Semester – I

Course Code	UBV01IKSB05	Title of the Course	Vedic Mathematics
Total Credit of Course	02	Hours Per Week	02

Course Objectives:	<ol style="list-style-type: none">1. To introduce students to the fundamental principles and Sutras (aphorisms) of Vedic Mathematics.2. To demonstrate the elegance, simplicity, and efficiency of Vedic mathematical methods.3. To encourage a problem-solving approach through alternative techniques.4. To develop mental calculation skills and improve speed and accuracy in arithmetic operations.
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Course Content		
Unit	Description	Weightage* (%)
1.	Foundations of Vedic Mathematics and Basic Operations: Introduction to Vedic Mathematics; Historical background, Benefits of learning Vedic Mathematics (speed, accuracy, mental agility); Basic Addition Techniques, Basic Subtraction Techniques, Base Multiplication	35%
2.	Advanced Multiplication, Division: To expand on multiplication techniques for larger numbers, To introduce efficient methods for division, General Multiplication, Systematic application for any size of numbers, General Division, Division by numbers close to a base, Division by numbers slightly larger or smaller than the base, Specific Division Techniques	35%
3.	Squaring, Cubing, Square Roots, Cube Roots: To master advanced squaring and cubing techniques, To efficiently calculate square roots and cube roots, Advanced Squaring Techniques, Squaring any number (Duplex method), Cubing Numbers, General method for cubing any number.	30%

Teaching-Learning Methodology	Class Room Teaching, Lectures, Case Discussion, Video and Presentation
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Internal and / or External Examination Evaluation

Sr. No.	Details of the Evaluation / Exam Pattern	50 Marks (%)	25 Marks (%)
1	Class Test (at least one)	15 (30%)	10 (40%)
2	Quiz (at least one)	15 (30%)	05 (20%)
3	Active Learning	05 (10%)	----
4	Home Assignment	05 (10%)	05 (20%)
5	Class Assignment	05 (10%)	----
6	Attendance	05 (10%)	05 (20%)
Total Internal (%)		50 (100%)	25 (100%)
College External Examination (%)		50 (100%)	25 (100%)

Course Outcomes: Having completed this course, the learners will be able to

1.	Understand the origins and benefits of Vedic Mathematics while developing mental agility through basic addition, subtraction, and multiplication strategies.
2.	Apply efficient techniques for complex multiplication and division using base methods and general strategies suited for large numbers.
3.	Master advanced calculations including squaring, cubing, and extracting square and cube roots using Vedic methods for rapid mental computation.

Suggested References

Sr. No.	References
1	" Vedic Mathematics " by Bharati Krishna Tirthaji Maharaja – This is the foundational text that introduced the system of 16 sutras and 13 sub-sutras, covering a wide range of arithmetic techniques.
2	" The Essentials of Vedic Mathematics " by Rajesh Kumar Thakur – This book offers a structured approach to Vedic techniques, including addition, subtraction, multiplication, division, and root calculations.
3	" The Essentials of Vedic Mathematics " by <i>Rajesh Kumar Thakur</i> – Covers both foundational and advanced techniques with step-by-step examples.
4	" Vedic Mathematics for Students " by <i>Manu Tripathi</i> – A student-friendly book that simplifies complex operations using Vedic methods.

Digital resources to be used if available as reference material

Digital Resources

<https://youtu.be/grkWGeqW99c?si=JPP2II0g8AAOFbG2>

<https://youtu.be/eyLsbv8E4Kg?si=z2QrZueHCj08GQiH>

<https://youtu.be/eWAeojCHNB0?si=YcPr09KyknXPezQZ>



Chairman

**BOS of Mathematics and Statistics
Anand Commerce College**



Academic Coordinator

Anand Commerce College



Principal

Anand Commerce College