



# बिरसा मुंडा द्रायबल युनिवर्सिटी

## Birsa Munda Tribal University

राजपिपला, जि० नर्मदा Rajpipla, Dist. Narmda

Established by Tribal Development Department, Govt. of Gujarat

School of Commerce

B.Com. Programme

Subject Code & Name: BC03IKSC01 Vedic Mathematics

### Teaching and Evaluation Scheme:

Teaching Scheme				Examination Scheme			
Credits				Component Weightage (%)			
				CCE		SEE	
L	T	P	Total	TH	PWE	TH	PWE
2	-	-	2	50	00	50	00

Programme Name	B.COM
Semester	III
Course Code	BC03IKSC01
Course Title	Vedic Mathematics
Course Content Type (Th./Pr.)	Theory
Course Credit	2
Sessions+ Lab. Per Week	2
Total Teaching/Lab. Hours	30 Hours
* 2 Laboratory = 1 Session	

### Learning Objectives

1. Foster love for maths and remove its fear through Vedic Mathematics
2. Enhance computation skills in students through Vedic Mathematics
3. Develop logical and analytical thinking
4. Promote joyful learning of mathematics
5. Discuss the rich heritage of mathematical temper of Ancient India

### Prerequisites (if any)

### Learning Outcomes

On the Completion of this course, students will able to:

1. Overcome the fear of maths.
2. Improved critical thinking.
3. Familiarity with the mathematical underpinnings and techniques.
4. Ability to do basic maths faster and with ease.
5. Appreciate the Mathematical advancements of Ancient India.







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Detailed Contents		
UNIT	TOPIC/SUB-TOPIC	TEACHING HOURS
I	<b>INTRODUCTION TO VEDIC MATHEMATICS:</b> <ul style="list-style-type: none"><li>➤ Actual applications of the Vedic Sutras</li><li>➤ Contribution of Indian Mathematicians (Varahamihira, Bhaskaracharya, NilakanthaSomayaji, Bharati Krishna Tirtha) in the context of Arithmetic</li><li>➤ Addition &amp; subtraction of algebraic expression</li><li>➤ Multiplication</li></ul> Practical Application in "Compound Multiplication" Practice and Proportion in "Compound Multiplication" Vertically and Cross wise method Mixed Operation Deviation method	15
II	<b>INTRODUCTION OF DIVISION AND DIVISIBILITY</b> <b>Division</b> <ul style="list-style-type: none"><li>➤ NikhilamNavtashcharam Method (Division of Two digits Number)</li><li>➤ ParavartyaYojyet Method (Division of Three digits Number)</li></ul> <b>Divisibility</b> <ul style="list-style-type: none"><li>➤ EkadhikenPurven Method (Division of Two digits Number)</li><li>➤ EknunenPurven Method</li></ul> Applications of Division and Divisibility Square roots, Cube roots	15
<b>Text Book(s)</b>		
<b>Reference Books</b>		
1. Vedic anit Nirdeshika Bhag-2, Vidya Bharti AkhilBhartiya Shiksha Sansthan Kurushetra		
2. Vedic Ganit, MotilalBanarsidas, New Delhi		
3. Vedic GanitVihangamDrishti 1, ShikshaSanskritiUthhanNyas Delhi		
4. Lilavati of Bhaskracarya: A Treatise of Mathematics of Vedic Tradition		







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### Web Resources

<https://youtu.be/PDCOZti8Hhc?feature=shared>

<https://youtu.be/itj6PPEiFKY?feature=shared>

<https://youtu.be/wgfXaMJLrRI?feature=shared>

<https://youtu.be/0djtSeiCpow?feature=shared>

<https://youtu.be/kdHywSgbLRg?feature=shared>

<https://youtu.be/rZCv7zglBj4?feature=shared>

### Required Software(s) (if any)

### Practical(s) (if any)

**L::** Lecture, **T::** Tutorial, **P::** Practical

**CCE::** Continuous and Comprehensive Evaluation

(CCE Theory includes Mid Semester Examination, Assignment, MCQ quizzes, Seminar, Reflective notes, class participation, case analysis and presentation, slip tests (announced/surprised), attendance etc. or any combination of these)

**PWE::** Practical Work Examination

(PWE includes Laboratory practical work, project work, viva simulation exercise work etc.)

**SEE::** Semester End Evaluation

