Programme: B.Sc.(Hons.) Class: B.Sc.	Year: IV	Semester: VIII

Subject: Mathematics

Course Code: **Course Title:Vedic Mathematics**

Course Outcome	**CO1:** The course will lead to develop analytical thinking through this and learn efficient approaches for basic computations. **CO2:** It will help to analyse basic mathematical skills by learning new methods of calculations and will help students to enjoy Mathematics by understanding concepts in different way. **CO3:** This course will lead the student to basic courses likes trigonometry, algebra, astronomy etc.

Unit No.	Course Content	Hours
I	Introduction of Vedic Sutras and Upsutras. Application of EkadhikenaPurvena Sutra: **Multiplication** numbers containing two digits, three digits and more. **Division** divisor containing two digits.	5
II	Application of EkanyunenaPurvena Sutra: **Multiplication** numbers containing two digits, three digits and more. **Division** divisor containing two digits only.	5
III	Application of Urdhwatiragbhyam Sutra: **Multiplication** numbers containing two digits, three digits and more. **Division** divisor containing two digits only.	5
IV	Application of NikhilamNavatashchramamDashatah Sutra: **Multiplication** numbers containing two digits, three digits and more. **Division** divisor containing two digits and more, method (three digits divisor)	5
V	**Application of different Sutras and Upsutras(**ParavartyaYojayet Sutra**)** **Square and Cube** of numbers containing two digits and more (various methods). **Square root and Cuberoot**ofperfect numbers containing four digits and more **(**Vilokanam method,ParavartyaYojayet Sutra**).**	5

Suggested Readings:

1. Tirthji, Swami BhartiKrishan, *Vedic Mathematics*, MotiLalBanarasi Das, New Delhi .
2. KailashVishvakarma: Vedic Ganita: Vihangama Drishti-1, *SikshaSanskritiUthana Nyasa, New Delhi*
3. NidhiHanda: Ancient Hindu Mathematics: An introduction. OshinaPublisher, Indore.

Mapping of course outcomes with program outcomes & program specific outcomes

CO's No.	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	1	2	2	1	1
CO2	3	3	3	1	1	3	2	2	1
CO3	3	2	2	2	1	2	1	1	1