Shri Govind Guru University

BSC Semester - 1 Value Added Course (NEP-2020)

BSC23VA106   Indian Mathematics – I (Vedic)

Unit – 1   Vedic Maths- High Speed Addition and Subtraction Sessions/Lectures
• 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: NikhilamNavatashcaramamDashatah
(All from 9 last from 10)
• Fraction -Addition and Subtraction

Unit – 2   Vedic Maths- Miracle Multiplication and Excellent Division
• Multiplication in Vedic Maths: Base Method (any two numbers uptothree digits)
• Multiplication by UrdhvaTiryak Sutra
• Miracle multiplication: Any three-digit number by series of l's and 9's
• Division by UrdhvaTiryak Sutra (Vinculum method)

Unit - 3   Vedic Maths-Lightening Squares and Rapid Cubes
• Squares of any two-digit numbers: Base method
• Square of numbers ending in 5: EkadhikenaPurvena Sutra
• Easy square roots: Dwandwa Yoga (duplex) Sutra
• Square root of 2: BaudhayanaShulbasutra
• Cubing: Yavadunam Sutra

Suggested Readings
• The Essential of Vedic Mathematics, Rajesh Kumar Thakur, Rupa Publications, New Delhi 2019.
• Vedic Mathematics Made Easy, DahavalBathia, Jaico Publishing, New Delhi 2011
• Vedic Mathematics: Sixteen Simple Mathematical formulae from the Vedas, Jagadguru Swami Sri Bharati Krishna Trithaji, MotilalBanarasidas, New Delhi 2015.
• Learn Vedic Speed Mathematics Systematically, Chaitnaya A. Patil 2018.