

**Curriculum Plan**  
**Dr. Vimallesh Kumar Thakur**  
**(2<sup>nd</sup> January 2026---29<sup>th</sup> April 2026)**

Sl.No.	Name of Paper & Code	Allocation of Lectures	Month wise schedule followed by the Department	Tutorial/ Assignment Presentation/ Group Discussion/ Test etc.
<b>B.A. (H) SEM- VIII– DSC-Paper – Vedanga Jyotisha and Scientific Heritage</b>				
1	Unit I Vedic Jyotisha and Vedic Mathematics	01 credit	January	<p>i. Lagadha Jyotisha (yajusha jyotisham)—verse no.- 1,2,3,4,42-43. (6 verses).            (Use of astronomical calculations, results, importance of mathematical methods and trairashika niyam- (rule of three).</p> <p>ii- Vedic Mathematics—by Swami Shri Bharati Krishna Tirtha Maharaj—5 sutras(formulas)</p> <p>iii--Technical terminology—            Mathematics and its branches, Abstract mathematics (Algebra), calculus, number theory and applied mathematics, kinetics, statics, dynamics,            Terms such as: number, digit, zero, infinity, decimal, square, cube, cube root, chord, arc, sine, cosine, tangent, volume, root, equation, line, angle, etc</p>
	Unit II Phalit Jyotisha (Predictive Astrology) and Aryanhattiyam	01 credit	February	<p>--General introduction of Panchanga---            Tithi (lunar day), Vara (weekday), Nakshatra (constellation), Yoga and Karana.</p> <p>-- Aryabhattiyam:            Aryabhatta –Golapada verses—1 - 22            (Explanation of planets and constellations).</p>

	Unit III Indian Mathematics and Astronomy: Origin and Development	01 credit	March	<p>-- Brief history of Indian Mathematics and astronomy</p> <p>--Vedanga jyotisha, Shulba sutra, Panchasiddhantika, Suryasiddhanta, Brahmagupta, Sridhara, Aryabhata II, Sripati, Bhaskaracharya, Ganesh Daivajna, Kamalakara, Jaisingh.</p>
	Unit IV Astronomical Calculations and Observatories	01 credit	April	<p>--Major instruments used for astronomical calculations and observatories---</p> <p>Nadivalaya yantra, Yamottrituria yantra, Samrat yantra, Shanku yantra, Tra mandala, Chakra yantra, Yamotra dharataliyaturia yantra, Kranti Vrta yantra, Tula-karka-makarashivalaya yantra, Shashtansha yantra,</p> <p>--Observatories:</p> <p>Jai Singh's observatories (Jantar Mantar)</p> <p>Jaipur observatories (by Jai Singh)</p> <p>Kashi observatories.</p>