

M. Sc. I Year		MPH-C205			Semester-II
		PHYSICS & VEDIC THOUGHT			
Total Lectures	Time Allotted for End Semester Examination	Marks Allotted for Continuous Assessment	Marks Allotted for End Semester Examination (ESE)	Maximum Marks (MM)	Total Credits
30	3 Hrs	30	70	100	04

NOTE: The question paper shall consist of three sections (Sec.-A and Sec.-B). Sec.-A shall contain 10 short answer type questions of 6 marks each and student shall be required to attempt any five questions. Sec.-B shall contain 8 descriptive type questions of ten marks each and student shall be required to attempt any four questions. Questions shall be uniformly distributed from the entire syllabus. The previous year paper/model paper can be used as a guideline and the following syllabus should be strictly followed while setting the question paper.

UNIT-I

SCIENTIFIC UNDERSTANDING OF VEDAS

Vedangas, Symbolism in Vedas, The Vedic Gods(Devas)

(Rg. 1.164.44, Atharva 10.8.31, Rg. 10.5.7,10.190.1), Common threads between Modern Physics and Vedic Thoughts, Introduction of Sulbha Sukta and Yajna. **(6 Lectures)**

UNIT-II

ENERGY

(Rg.10.72.4, 10.90.16, 10.130.1, 1.164.13, 10.82.6, Atharva 10.8.10,11.1.1)

(Yajul 12-24,25; Rg.2.2.9;Rg 3-1-9; Rg. 8.19.7), Physics and Thought Energy, Agnisulta Rig (1, 1-9) **(6 Lectures)**

UNIT-III

HEAT, LIGHT, MEGNETISM, ELECTRICITY AND ATOMIC THEORY

(Rg.10.45.1, 10.45.3, 2.1.1),(Yaju. 23.5.2, Rg. 10.81.3, 10.72.6)

(Rg. 5-89 Supta; Rg. 8-101,1.2; Rg1.88,1-5) **(6 Lectures)**

UNIT-IV

COSMIC RAYS

Yayo group(heat waves), Marichi group, Vayu group, Marut group, Ribhu group (Rg.10.140.1, 10.45.8, 1.136.3, 5.59.7, 5.57.4, 5.54.3, 5.55.3, 1.88.1, 2. 34.3, 2.34.2, 1.31.1, 1.64.5, 1.164.47, 1.164.51, 1.110.4), (Rg1.8.8,1.5; Rg 1.87.4, Rg 1.64.9, Rg. 1.36.8). **(6 Lectures)**

UNIT-V

UNIVERSE

The Dynamic Universe, Estabilisation and expansion of Universe, Creation and dissolution of universe, Comparison with the theory of oscillatory universe, Nasdiya Sukta (Rig. 10),

(Rg. 10.129; 1-7 (Big Bang Theory); Rg. 10.1.6; Yaju 3-12,14-23,Ath 19.9.80; Rg 1.164.13)

(6 Lectures)

Text Books / Reference Books

1. The Call of Vedas - Abinash Cahndra Bose
2. Cosmology of the Rigvedas (London 1887) - W. Wallis
3. Physics in ancient India - Narayen Gopal Dongre
4. Science in Vedas - Acharya V.N. Shastri
5. The Vedas - Jeanire Miller, Rider & Co., London
6. Vedas: The Source of Ultimate Science, S.R. Verma, Nag Publishers (2005 Ed.)