Inter-disciplinary Course in Ancient Indian Knowledge Systems for SEM IV

Unit I – Review of Scientific Literature in Sanskrit 15 Marks (References of sciences/scientific knowledge through different textual sources etc.)

15 Marks **Unit II – Chemistry and Mathematics** (Various treatises on Chemistry, Use of chemistry in medicines, Metallurgy, Use of chemistry for occult practices, Mathematical concepts through Shulbasutras, Development of different mathematical branches and treatises based on that, Development of astronomy, etc.)

Unit III – Dietetics

of different based on culinary (Study texts art Nalapakadarpana, Bhojanakutuhalam, Supashastra, Modes of preservation of food, Dietary guidelines through branches of Ayurveda, Food and diseases, etc.)

Unit IV – Agriculture and Zoology

Study of krishisuktas, Krishiparashara, Brihatsamhita, Types of crops, Manures, Types of land- devamatruka, nadimatruka, Use of animals in warfare, Animal husbandry, Animals for medicines, etc.)

Paper Pattern:

Q. 1. Essay Type (1/2) OR Short Notes (2/3)	15 Marks
Q. 2. Essay Type (1/2) OR Short Notes (2/3)	15 Marks
Q. 3. Essay Type (1/2) OR Short Notes (2/3)	15 Marks
Q. 4. Essay Type (1/2) OR Short Notes (2/3)	15 Marks

Internal Assignment:

PPT on any one science (Outside of the syllabus) with reference to Sanskrit **Texts** 20 Marks

15 Marks

15 Marks

Bibliography:

- 1. Scientific Knowledge in Sanskrit Literature Nirmal Trikha
- 2. Indian Astronomy: An Introduction S. Balachandra Rao
- 3. Ancient Indian Sciences B. Seal
- 4. Science in Ancient India (Science of the Past) Melissa Stewert
- 5. India's Contribution to World Culture Sudheer Birodkar
- 6. Ancient India R. C. Majumdar
- 7. Ancient Indian Sciences Swami Chidatman Jee Maharaj
- 8. Krishi Parashara Agriculture by Parashara Asian Agri-History Foundation
- 9. The Art of India through the Ages Stella Kramrisch
- 10.Early Indian Secular Architecture K.Krishna Murthy
- 11. The Asian Elephant: Ecology and Management" Cambridge Univ. Press