

Annexure 1A: Model syllabi for IKS modules in the Induction Program

Course 1: IKS Induction Program in IKS

1 Overview of IKS

- Survey of IKS Domains: A broad overview of disciplines included in the IKS, and historical developments.
- Sources of IKS knowledge, classification of IKS texts, a survey of available primary texts, translated primary texts, and secondary resource materials. Differences between a sutra, bhashya, karika, and vartika texts. Fourteen/eighteen vidyasthanas, tantra yukti
- Vocabulary of IKS: Introduction to Pancha maha bhutas, concept of a sutra, introduction to the concepts of non-translatables (Ex. dharma, punya, aatma, karma, yagna, shakti, varna, jaati, moksha, loka, daana, itihaasa, puraana etc.) and importance of using the proper terminology. Terms such as praja, janata, loktantra, prajatantra, gana tantra, swarjya, surajya, rashtra, desh,
- Philosophical foundations of IKS: Introduction to Samkhya, vaisheshika and Nyaya
- Methods in IKS: Introduction to the concept of building and testing hypothesis using the methods of tantrayukti. Introduction to pramanas and their validity, upapatti; Standards of argumentation in the vada traditions (introduction to concepts of vaada, samvaada, vivaada, jalpa, vitanda). Concept of poorva paksha, utara paksha.

2 Case Studies (Few of these may be selected as appropriate)

- Mathematics of Madhava, Nilakantha somayaji
- Astronomical models of Aryabhata
- Wootz steel, Aranumula Mirrors and lost wax process for bronze castings
- Foundational aspects of Ayurveda
- Foundational aspects of Ashtanga yoga
- Foundational aspects of sangeeta and natya Shastra
- Foundational aspects of **Bhartiya** jurisprudence
- Indian methods of pedagogy

3 India and the World: Influence of IKS on the world, knowledge exchanges with other classical civilizations, and inter-civilizational exchanges.