

COURSE TITLE:

**Certificate Course on
Indian Knowledge System**

COURSE CODE:

GEL-AOC-002

COURSE COORDINATOR:

Dr. Manjit Kumar Mazumdar



DEPARTMENT OF GEOLOGY

PRAGJYOTISH COLLEGE

GUWAHATI – 781 009

PRAGJYOTISH COLLEGE
DEPARTMENT OF GEOLOGY
ADD-ON COURSE

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NAME & DESIGNATION OF COURSE COORDINATOR: Dr. Manjit Kumar Mazumdar,
Associate Professor

TOTAL CONTACT HOURS: 30

OBJECTIVE OF THE COURSE: India has a rich heritage of eternal knowledge created, acquired and realized by Indians over several millennia. India is the land of knowledge, because our ancestors considered nothing other than knowledge to be the purest. The National Education Policy 2020 (NEP 2020) framework has considered the rich heritage of this ancient and eternal Indian knowledge to be the guiding light in drafting this exhaustive policy document. NEP 2020 has reiterated that “Knowledge of India” will include knowledge from ancient India and an engaging course on Indian Knowledge Systems (IKS) in secondary schools (4.27). The role of ancient universities in the context of vibrant multidisciplinary environments, and the need for India to revive such environment in HEIs in creating well-rounded and innovative individuals is also stressed upon (10.2). IKS aims to support and solve various contemporary societal issues in different fields of study. The present course is an attempt to bridge the gap in the vast IKS knowledge domain and create general awareness amongst the targeted learner groups.

COURSE OUTCOME: Students shall gain preliminary knowledge on various core aspects related to the IKS domain.

SCOPE FOR ON-JOB TRAINING FACILITY: There is no present scope for on-job training. However, in future, attempts will be made to adopt experiential learning modes through appropriate tie-ups. Trained learners may also find the course useful in the context of the internship programs and research proposal programs under the IKS Division of Ministry of Education, Govt. of India.

TEACHING METHOD: Classes will be held in blended mode, both offline and online. Offline classes will be scheduled during any convenient time slots on working days. Online classes will be scheduled after college hours and on holidays. External experts may be engaged for taking online classes, which will be not more than 10% of the course content.

COURSE OUTLINE:

UNIT 1: INTRODUCTION (5 hours)

Definition of Indian Knowledge System (IKS); Myths about IKS; Importance of ancient knowledge and wisdom; Sources of IKS – literature and oral traditions; Various components of IKS domain; Historical background

UNIT 2: LITERARY WISDOM (5 hours)

Caturdasa-Vidyasthanana – 4 Vedas (*Rgveda, Yajurveda, Samaveda, Atharvaveda*) and the four divisions of each (*Samhitas, Brahmanas, Aranyakas, Upanisads*), 6 Vedangas (*Vyakarna, Shiksha, Jyotisha, Nirukta, Chanda, Kalpa Sutra*), 4 Upangas (*Puranas, Dharma-sastras, Nyaya and Mimamsa*); 4 Upa-Vedas (*Ayurveda, Dhanurveda, Gandharvaveda, Stapathyaveda & Arthashashtra*); Indian philosophical systems – Vedic systems (*Samkhya, Yoga, Nyaya, Vaisesika, Mimamsa, Vedanta*) and Non-Vedic systems (*Carvaka, Jaina, Bauddha*)

UNIT 3: SCIENCE, ENGINEERING & TECHNOLOGICAL WISDOM (5

hours)

Historical developments and innovations in the fields of aeronautical engineering, astronomy, mathematics, medicine, mining and metal technology, physics, ship building technology

UNIT 4: ARCHITECTURAL WISDOM (5

hours)

Vastu-sastra – Town planning, Unitary buildings, Temple architecture; Literary sources

UNIT 5: HEALTH AND WELLNESS WISDOM (5

hours)

Preliminary concept of 5 *panch tatvas* (*prithvi, jal, akash, agni, vayu*), 7 *dhatu*s (*rasa, rakta, mamsa, meda, asthi, majja, sukra*), 3 *tri-dosas* (*vata, pitta, kapha*), 3 *tri-gun*as (*sattva, rajas, tam*as); 5-layered existence (*Panca-kosas*); 4 states of existence (*jagrat, Svapna, susupti, turiya*)

UNIT 6: GOVERNANCE AND ADMINISTRATIVE WISDOM (5

hours)

7 elements of a State (*svamin, amatya, janapada, durga, kosa, danda, mitra*); Significance of *Arthasastra*

READING MATERIALS:

1. B. Mahadevan, V. R. Bhat and N. Pavana R. N. (2023). *Introduction to Indian Knowledge System: Concepts and Applications*, PHI Learning Private Limited, Delhi
2. A. Kumar (2019). *Ancient Hindu Science*, Jaico Publishing House, Mumbai

ELIGIBILITY: Students pursuing any Honours/ Major Undergraduate Degree or Post-Graduate Degree Program

COURSE FEE: No course fee will be charged from the enrolled students. However, if Field Visits are planned, the interested participants will have to bear the related expenses. This is not a compulsory component of the course.

EVALUATION PROCESS: A term-end assessment test of 60 minutes duration will be conducted by the Course Coordinator after the completion of the course, where candidates will be required to attempt 30 MCQs in offline mode, each having 1 mark weightage. There will be no negative marking.

CERTIFICATE OF PARTICIPATION: After successful completion of the course and appearing in the term-end assessment test, a Certificate of Participation will be provided to all students, subject to a minimum of 75% class attendance.