



# **UNIVERSITY OF CALCUTTA**

## **Notification No. CSR/24/2024**

It is notified for information of all concerned that in terms of the provisions of Section 54 of the Calcutta University Act, 1979, (as amended), and, in the exercise of her powers under 9(6) of the said Act, the Vice-Chancellor has, by an order dated **15.05.2024** approved the some amendment in the existing syllabus of **Indian Knowledge System and its Application (optional CVAC)** notified in Notification No. CSR/40/23 dated 16.10.2023, for Semester 2 for four-year (Honours & Honours with Research)/ three-year (Multidisciplinary) Programme of U.G. courses of studies under this University, as laid down in the accompanying pamphlet.

**The above shall take immediate effect.**

SENATE HOUSE  
Kolkata-700073

Date -15.05.2024

A handwritten signature in blue ink, followed by the date '15/5/2024' written in blue ink.

Prof.(Dr.) Debasis Das  
Registrar

# Indian Knowledge System and its applications

Semester-2

Total Credits: 2

**Module-I: Introduction to Indian Knowledge System.**

**Lecture Hours: 06**

**This Module shall cover:**

- What is Indian Knowledge System?
- Introduction to Ancient Indian Literature and Scriptures (Vedas, Vedangas, Puranas etc)
- Basic of Panini's Grammar and its extensive application in Languages.
- Indian framework for establishing valid knowledge and its applicability in today's society.

**Learning Outcomes:**

- This module will provide learners with definition, relevance and overview of Indian Knowledge System.
  - Learners will be introduced to Ancient Indian Literature and Scriptures.
  - Learners will also assess the applicability of Panini's grammatical framework to Indian and other languages.
  - The module will appraise learners about Indian scheme of knowledge and examine the relevance of the framework for establishing valid knowledge in today's society.
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## **Module –II: Introduction to Ancient Indian Political and Economic System.**

**Lecture Hours: 08**

**This module shall cover.**

- Concept of Kingship: Duties and responsibilities of a King.
- Indian Economy –taxation, savings, expenditure.

### **Learning Outcomes:**

This module will help learners gain understanding of nature & working of Ancient Political and Economic system.

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## **Module-III: Introduction to Ancient Indian Art and Architecture.**

**Lecture Hours: 08**

**This module shall cover:**

- Origin & Concept of Ancient Indian Art and Architecture.
- Introduction to Cave & Monolithic Architecture.

### **Learning Outcomes:**

- This module will familiarise learners with ancient Indian Art and Architecture.
  - Learners will also learn about the idea of building Architecture through different dimensions.
  - The module will also give them an overview of different types, and models of Architecture.
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## **Module-IV: Introduction to Ancient Indian Mathematics, Astronomy and approach to Health.**

**Lecture Hours: 08**

**This module shall cover:**

- Salient features of Ancient Indian Mathematics.
- Astronomical Instruments (Yantras)- Application of Physics & Chemistry.
- Ayurvedic approach to health, food intake methods, Disease management, elements & wellness application of Botany and Medical Science.

### **Learning Outcomes:**

- This module will appraise learners about salient features of Ancient Indian Mathematics and contributions of Indian Mathematicians to Indian knowledge and their applicability today.
  - Learners will also learn about Indian Astronomy, Astronomical Instruments (Yantras).
  - The module will also familiarise learners with Ayurvedic approach to health, life style management & wellness.
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## References:

Acarya, P.K. (1996) Indian Architecture, Munshiram Manaharlal publishers, New Delhi.

Bag, A.K (1979) Mathematics in Ancient and Medieval India, Chaukhamba Orientalia, New Delhi.

Banerjea, P. (1916) Public Administration in Ancient India , Macmillan, London.

Chatterjee, Satishchandra (2012) An introduction to Indian Philosophy, Rupa & Co. Calcutta.

Kapoor Kapil, Singh Avadhesh (2021) "Indian Knowledge Systems Vol- I & II," D.K. Print World Ltd., New Delhi.

Mahadevan, B. Bhat Vinayak Rajat, Nagendra Pavana R.N. (2022), "Introduction to Indian Knowledge System; Concepts and Applications", PHI Learning Private Ltd. Delhi.

Singh, Bal Ram, (2011) Indian Family System. The Concept, Practices and Current Relevance, D.K. Print World Ltd., New Delhi.

Subbarayappa, B.V. and Sarma, K.V. (1985) Indian Astronomy: A Source Book, Nehru Centre, Mumbai.