



BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH

A NCTE and NAAC accredited (B⁺⁺) College

5/3, MAHATMA GANDHI ROAD, HOWRAH – 711 101

RESEARCH & DEVELOPMENT CELL, IQAC

Ref.:

Date: 23-08-2024

Certificate Course

in

Indian Knowledge Systems (IKS)

This course on Ancient Indian Knowledge Systems provides an in-depth exploration of India's rich and diverse intellectual, political, economic, artistic, and scientific heritage. Over the span of 15 sessions, each of 2 hours duration, students will engage with the foundational concepts and practices that have shaped Indian civilization across millennia. The syllabus is structured into four key modules as follows:

Module-I: Introduction to the Indian Knowledge System

Session 1: Definition, Scope, and Contemporary Relevance of IKS

- ☞ Definition and scope of the Indian Knowledge System (IKS).
- ☞ Holistic approach to knowledge in various domains.
- ☞ Contemporary relevance and application of IKS in modern contexts.

Session 2: Overview of Ancient Indian Texts

- ☞ Introduction to Vedas, Vedāngas, Kalpa, and Jyotiṣa.
- ☞ Overview of Puraṇas and Itihāsas.
- ☞ Their significance in shaping Indian thought and culture.

Session 3: Introduction to Pāṇini's Grammar and Aṣṭādhyāyī

- ☞ Fundamentals of Pāṇini's grammar.
- ☞ Word and sentence formation, including verbs, prefixes, and suffixes in Sanskrit.

Session 4: Application of Pāṇini's Grammar and Indian Epistemology

- ☞ Application of Pāṇini's grammar to languages beyond Indian origins.
- ☞ Introduction to Indian epistemology and its relevance today.

Module-II: Ancient Indian Political and Economic Systems

Session 5: Concept of Kingship and Three-Tier Political Structure

- ☞ Roles and responsibilities of a ruler in ancient India.
- ☞ Three-tier political structure: Dharma Dand, Raj Dand, and Nyaya Dand.

Session 6: Law, Administration, and Crime Prevention

- ☞ Exploration of ancient Indian law and administration.
- ☞ Crime prevention methods and their comparison with modern systems.

Session 7: Defense and Foreign Policy in Ancient India

- ☞ Study of ancient Indian defense strategies.
- ☞ Discussion on ancient Indian foreign policy, including diplomacy and alliances.

Session 8: Kautilya's Saptanga and Ancient Indian Economic Principles

- ☞ Overview of Kautilya's Saptanga: the seven sources of income.
- ☞ Discussion on ancient Indian economic principles: taxation, savings, and expenditure.



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Module-III: Ancient Indian Art and Architecture

Session 9: Origins and Principles of Ancient Indian Art and Architecture

- ☞ Introduction to the origins of Indian art and architectural principles.
- ☞ Study of symbolic representations and aesthetics in art.

Session 10: Temple Architecture and Architectural Styles

- ☞ Introduction to Temple Architecture.
- ☞ Overview of architectural styles across different periods and regions.

Session 11: Cave and Monolithic Architecture

- ☞ Detailed study of cave and monolithic architecture in India.
- ☞ Exploration of famous examples like Ajanta, Ellora, and Mahabalipuram.

Session 12: Detailed Study of Architectural Models and Buddhist & Jain Art

- ☞ Study of architectural models: Chalukya, Pallava, Chola, Hoysala, Mauryan, and Vijayanagar.
- ☞ Overview of Buddhist and Jain Art & Architecture.

Module-IV: Ancient Indian Mathematics, Astronomy, and Health Approaches

Session 13: Ancient Indian Mathematics

- ☞ Overview of key features of Ancient Indian Mathematics.
- ☞ Contributions to Algebra, Geometry, Trigonometry, and Binary Mathematics.

Session 14: Indian Astronomy and Astronomical Instruments

- ☞ Introduction to Indian Astronomy and celestial coordinate systems.
- ☞ Study of ancient astronomical instruments (Yantras) and their applications.

Session 15: Ayurvedic Health Approaches

- ☞ Overview of Ayurvedic approaches to health.
- ☞ Study of dietary practices, disease management, and wellness through Botany and Medical Sciences.