



Indian Knowledge System in Ancient, Medieval and Modern History

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Abstract:

The Indian knowledge system is a vast and continuous intellectual tradition, which has developed through ancient, medieval and modern historical phases. It includes diverse fields such as philosophy, science, medicine, mathematics, linguistics, art, government and education. Rooted in sacred texts, oral traditions and institutionalized learning, ancient India developed a sophisticated epistemological framework that emphasized holistic knowledge, moral responsibility and experiential learning. During the medieval period, these knowledge traditions entered into dynamic dialogue with Islamic, Persian and regional intellectual cultures, leading to significant advances in fields such as astronomy, architecture, historiography and administration. In modern times, indigenous knowledge systems declined under colonial rule, but were subsequently reinterpreted and revitalized through nationalist movements, academic research and contemporary policy initiatives. This paper examines the historical evolution, continuity and transformation of the Indian knowledge system across these three phases and highlights its flexibility, adaptability and relevance to meet modern intellectual, cultural and developmental challenges. From a historical-analytical perspective, this study attempts to reposition Indian knowledge systems as a significant component of the global knowledge debate, rather than treating them as mere relics of the past.

Keywords: *Indian Knowledge System; Ancient Indian Education; Medieval Intellectual Traditions; Indigenous Knowledge; Vedic and Post-Vedic Thought; Knowledge Transmission etc.*

Introduction:

The Indian Knowledge System (IKS) is one of the oldest and most enduring intellectual traditions in the world, shaped by centuries of philosophical inquiry, empirical observation and cultural practices. Indian knowledge traditions, which emerged from the Vedic corpus and were sustained through oral transmission, scholarly debate and institutional education, developed a comprehensive approach to understanding nature, society and the human condition. Unlike fragmented disciplinary models, the Indian knowledge system emphasized the interconnectedness of the physical, moral and spiritual dimensions of life, linking science with ethics and knowledge with social responsibility.

Throughout ancient, medieval and modern historical periods, these systems underwent processes of consolidation, adaptation and reinterpretation in response to changing political, cultural and intellectual contexts. The introduction of new epistemologies during the medieval period and later the influence of colonial educational policies significantly altered indigenous knowledge systems, often leading to their marginalization within formal educational frameworks. However, contemporary scholarship and policy initiatives have drawn renewed attention to Indian knowledge systems, recognizing their historical depth and potential relevance in addressing current intellectual and social challenges. The aim of this study is to

examine the historical evolution of Indian knowledge systems across different periods, focusing on their continuity, transformation and enduring significance.

Objectives of the Study:

1. To examine the evolution of the Indian knowledge system from ancient to modern historical periods.
2. To analyze the changes that occurred in local knowledge traditions during the medieval period and under colonial influence.
3. To evaluate the continuity, revival and contemporary relevance of Indian knowledge systems within the modern global knowledge framework.

Hypotheses of the Study:

1. Despite historical changes in ancient, medieval and modern times, the Indian knowledge system shows significant continuity in its fundamental philosophical and epistemological principles.
2. While colonial intervention and the dominance of Western education systems led to the marginalization of indigenous knowledge traditions, contemporary revival efforts have restored their educational and cultural significance.

Scope and Limitations of the Study:

- a) **Scope:** This study covers the evolution of the Indian Knowledge System across ancient, medieval and modern periods, focusing on its philosophical foundations, institutional structures and modes of knowledge transmission. It also examines the impact of cultural interactions, colonialism and contemporary revival efforts on indigenous knowledge traditions.
- b) **Limitations:** The study is primarily historical and analytical, relying on secondary sources

such as texts, research papers and historical records. It does not include empirical fieldwork or detailed case studies of local knowledge systems and the focus is on broader trends rather than exhaustive regional variations.

Research Methodology: The study uses a **historical-analytical method**, relying on **secondary sources** such as classical texts, manuscripts, historical records and scholarly research.

Meaning of Indian knowledge system: The Indian Knowledge System (IKS) is a traditional body of knowledge, wisdom and intellectual practices that have developed and been preserved in India over thousands of years. It includes philosophy, science, mathematics, medicine, literature, art, government and education, which emphasizes the integration of the moral, spiritual and practical aspects of life. Unlike purely empirical systems, the Indian knowledge system focuses on holistic understanding, links human values to knowledge and encourages experiential learning alongside bookish study. This includes knowledge transmitted through sacred texts, oral traditions and institutional education and reflects India's historical emphasis on interdisciplinary and value-based education.

Definitions:

1. **According to Prof. Kapil Kapoor (2005),** "The Indian Knowledge System is the totality of indigenous knowledge, practices and epistemological frameworks that originated and evolved in India, encompassing philosophy, science, arts, ethics and social organization, transmitted through texts, oral traditions and institutional learning."
2. **Government of India (Ministry of Education (2021),** "The Indian Knowledge System is a repository of ancient and

traditional knowledge encompassing scientific, philosophical, cultural and artistic achievements of India, which is relevant for contemporary learning, innovation and societal development."

The evolution of the Indian knowledge system: from ancient times to the modern historical period:

1. **Ancient Foundations (1500 BCE - 500 BCE):** During this period, knowledge was primarily derived from the four Vedas - Rig, Sama, Yajur and Atharva - focusing on cosmology, rituals and the ethical framework of dharma. Learning was transmitted through the Guru-Shishya parampara, where oral instruction and mnemonic techniques ensured precise preservation across generations. Over time, intellectual emphasis shifted with the Upanishads, highlighting metaphysical exploration of the self (Atman) and the ultimate reality (Brahman).
2. **Classical and Golden Era (500 BCE - 1200 CE):** This era witnessed remarkable achievements in mathematics, including the conceptualization of zero, the decimal system and approximations of pi by scholars such as Aryabhata and Brahmagupta. Medical knowledge advanced through texts like *Charaka Samhita* and *Sushruta Samhita*. Knowledge became systematized into specialized fields, including statecraft (Dandaniti), economics (Arthashastra) and linguistics (Vyakarana), with Panini's grammar serving as a classical example. Centers of higher learning, such as Nalanda and Takshashila, formalized education and attracted students and scholars from across Asia.
3. **Medieval Period (1200 CE - 1700 CE):** During the medieval era, Indian knowledge systems experienced cross-cultural

interaction, particularly with Islamic and Persian traditions, influencing areas such as architecture, music and astronomy. Spiritual movements like Bhakti and Sufism contributed to the democratization of knowledge, making philosophical and religious ideas accessible to people in regional languages rather than only in Sanskrit.

4. **Colonial Period (1700 CE - 1947 CE):** The colonial era brought significant changes, including the introduction of Western-style education that marginalized traditional institutions such as Gurukuls. Simultaneously, efforts by Indian and European scholars to translate, preserve and document ancient manuscripts sparked a renewed awareness of India's intellectual heritage, laying the groundwork for a revival of indigenous knowledge.
5. **Modern Period (1947 - Present):** In contemporary times, policy initiatives, including the National Education Policy 2020, emphasize the integration of Indian Knowledge Systems into formal education. Programs like the National Mission for Manuscripts are actively preserving ancient texts digitally for research and wider dissemination. Modern scholarship is also exploring interdisciplinary applications, such as the relevance of Yoga and Ayurveda in mental health, sustainable agriculture and scientific research, demonstrating the continued significance of India's traditional knowledge in addressing contemporary challenges.

Transformations in Local Knowledge Traditions During the Medieval and Colonial Periods:

In the medieval period (1200–1700 CE), local knowledge traditions in India experienced

considerable changes due to intercultural exchanges and evolving social dynamics. The influence of Islamic and Persian intellectual and artistic traditions introduced new concepts in fields such as architecture, astronomy and music, which merged with pre-existing Indian practices. Movements like Bhakti and Sufism helped disseminate spiritual and philosophical knowledge to a wider audience by promoting regional languages, making learning accessible beyond the Sanskrit-literate elite. As a result, knowledge became more inclusive and locally grounded during this era.

The colonial period (1700–1947 CE) brought profound transformations. British education policies, including the introduction of Western curricula, led to the decline of traditional institutions such as Gurukuls, pathshalas and artisan schools. Indigenous knowledge in medicine, agriculture and craftsmanship was often de-emphasized in favour of Western scientific and administrative systems. At the same time, efforts by both European and Indian scholars to translate, catalogue and preserve manuscripts and folk traditions created a foundation for the later revival of these knowledge systems.

Thus, across the medieval and colonial periods, local knowledge traditions were shaped by adaptation, integration and marginalization. While medieval interactions facilitated cultural synthesis and wider accessibility, colonial interventions disrupted traditional practices but also laid the groundwork for their preservation and eventual resurgence in modern times.

Continuity, revival and contemporary relevance in modern Indian knowledge systems:

Despite the disruptions experienced during colonial rule, several elements of the Indian Knowledge System (IKS) have shown

remarkable continuity. Fundamental philosophical concepts, ethical frameworks and scientific insights preserved through classical texts and oral traditions have endured and continue to influence modern academic and practical applications. Traditional practices in areas such as medicine, agriculture, mathematics and the arts have persisted within communities, reflecting the resilience of indigenous knowledge.

The revival of Indian Knowledge Systems gained momentum during the late 19th and 20th centuries through reform and nationalist movements that sought to reclaim India's intellectual heritage. Scholars and institutions focused on translating, preserving and incorporating classical knowledge into modern education. Efforts such as critical editions of manuscripts, research centers and inclusion of IKS in university curricula contributed to strengthening and popularizing indigenous knowledge traditions.

In today's global context, Indian Knowledge Systems are recognized for their interdisciplinary, holistic and sustainable approaches. Practices like Yoga, Ayurveda, traditional farming techniques, environmental management and cognitive sciences are being studied, applied and appreciated worldwide. Policies like the National Education Policy 2020 encourage integrating IKS into formal education, highlighting its potential to foster ethical reasoning, holistic thinking and innovative solutions. Thus, Indian Knowledge Systems continue to play a significant role in preserving cultural heritage while offering valuable insights for addressing contemporary global challenges.

Conclusion:

The Indian Knowledge System (IKS) represents a rich and continuous intellectual tradition that has evolved from ancient times to the modern era. In ancient India, knowledge was

deeply rooted in the Vedas, Upanishads and the Guru-Shishya tradition, encompassing philosophy, science, medicine, arts and social organization in a holistic and integrated manner. During the medieval period, intercultural interactions and movements like Bhakti and Sufism expanded the accessibility and scope of knowledge, while the colonial era brought significant challenges, marginalizing traditional institutions under Western education systems. Despite these disruptions, the foundational principles, ethical frameworks and practical insights of IKS persisted. In the modern period, efforts to revive and integrate Indian Knowledge Systems into formal education, research and interdisciplinary applications such as Yoga, Ayurveda, sustainable agriculture and environmental management, demonstrate their continued relevance. Overall, IKS not only preserves India's intellectual and cultural heritage but also provides valuable perspectives and solutions for addressing contemporary global challenges.

References:

1. Khan S. & Sharma M. (2024), "An overview on Indian Knowledge System" Integrated Journal for Research in Arts and Humanities, 4(4), Page No. 42 to 46.
2. Rajeshwari R. (2025), "Indian Knowledge Systems: An exploration of indigenous intellectual traditions" Journal of Psychological and Educational Research. Page No. 412 to 416.
3. Shrimalibhoi N. R. & Patel S. (2025), "Integrating Indian Knowledge System (IKS) in education: Roles of teachers, schools, and governments" International Journal of Scientific Research in Humanities and Social Sciences.
<https://ijsrhss.technoscienceacademy.com>
4. Kakde H. (2025), "In search of roots: Indian Knowledge System through National Education Policy-2020" Innovare Journal of Education.
5. Begum R. & Sankar C. (2025), "Indian Knowledge System (IKS): Relevance and strategies for implementation in higher education" Archives publishing.
6. Das Swain & Pandey (Eds.) (2025), "Indian Knowledge System through the ages: From Vedas to modern science" Archives publishing.
7. Sushruta Samhita. (30 December 2025), In Wikipedia. from https://en.wikipedia.org/wiki/Sushruta_Samhita.
8. Kapoor K. (2025), "Indian Knowledge Systems: Foundational overview" Indian Knowledge Systems.
9. Bhartiya Knowledge Systems. (2024), "An exploration of the Indian Knowledge System: Roots, significance, and contemporary relevance" Bhartiya Knowledge Systems, 2(1), Page No. 33-39.