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THE INDIAN KNOWLEDGE SYSTEM AND INDIGENOUS PEDAGOGIES: A HISTORICAL REVIEW

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Abstract:

The Indian Knowledge System (IKS) and its Indigenous Pedagogies represent a sophisticated and holistic intellectual tradition that evolved over millennia, fundamentally shaping the educational and cultural landscape of the subcontinent. This historical review traces its evolution, core pedagogical model, and the transformative impact of colonial rule.Indigenous Pedagogy refers to the teaching and learning approaches that stem from the knowledge systems, models, methods, and content of Indigenous peoples. It is an educational philosophy rooted in Indigenous worldviews and ways of being, often developed in response to the historical erosion of Indigenous knowledge through colonialism. Alongside this, the paper explores indigenous theories of knowledge (pramāṇa). The indigenous theories of knowledge (Pramāṇa) in Indian philosophy refer to the established, validated means or instruments by which valid knowledge (Prama⁻) of reality is acquired. The concept of Prama na is central to the epistemology (theory of knowledge) of nearly all schools of Indian philosophy, as a rigorous defense of one's philosophical and religious views depended on showing they were supported by genuine means of knowing. Different schools of Indian philosophy accept a varying number of Prama nas, ranging from just one (Cārvāka) to as many as six (Advaita Vedānta and Kumārila Bhaţţa's Mīmāṃsā). The most widely recognized Prama nas are Pratyakṣa, Anuma na, and S'abda. By advocating for an interdisciplinary, inclusive, and ethically grounded approach, the paper positions IKS not as a relic of the past, but as a living, evolving framework with profound implications for education, sustainability, and knowledge systems worldwide.

Keywords: Indian Knowledge System, Indigenous Pedagogy, Pramāna

Introduction:

The development of the Indian Knowledge System (IKS) spans thousands of years, encompassing diverse disciplines such as philosophy, science, literature, art, mathematics, medicine, and astronomy. This system is deeply rooted in ancient texts, oral traditions, and institutionalised learning practices like gurukulas and universities.

The integration of Indigenous knowledge systems (IKS) into education has been initiated by school systems around the world. Indigenous knowledge systems are widely

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understood as a body of knowledge, processes and practices developed, used and acquired by local communities as they interact with their environment across generations. Indigenous knowledge systems deal with profound detailed and shared knowledge, beliefs and rules about the physical resources, social norms, health, ecosystem, culture and livelihood of the people who interact with the environment in both rural and urban settings. Such systems are increasingly gaining recognition for their contribution to sustainability, earning global commendation and being deemed important for tackling critical global concerns and achieving the Sustainable Development Goals. The increasing attention on sustainability is underpinned by IKS's potential to provide valuable responses to climate change, food insecurity, reducing inequalities and other significant challenges targeted by the Sustainable Development Goals as well as enthusiasm for nature conservation, social justice and development of culturally responsive instruction. However, educators and researchers find it difficult to promote lessons and curricula that keep up with contemporary science practice in classrooms without abandoning cultural values.

Ancient Indian Literature and Knowledge Transmission:

1. Vedic Literature:

The Vedas (Rigveda, Samaveda, Yajurveda, and Atharvaveda) are the oldest texts of Indian civilization, providing insights into cosmology, philosophy, rituals, and ethics. Associated texts like the Upanishads, Brahmanas, and Aranyakas explore metaphysics, spiritual knowledge, and ritual practices.

2. Epics and Puranas:

Epics like the Mahabharata and Ramayana integrate moral and ethical dilemmas, while Puranas catalog cultural, historical, and mythological narratives.

3. Sanskrit Literature:

Classical works like Kalidasa's Shakuntala and Aryabhata's Aryabhatiya demonstrate contributions in drama and mathematics, respectively.

Ancient Indian Literature:

1. The Vedas and Upanishads:

These texts form the bedrock of Indian literary and philosophical traditions, exploring themes of cosmology, spirituality, and ethics.

2. Mahabharata and Ramayana:

Composed by Vyasa and Valmiki, respectively, these epics integrate mythology, history, and moral lessons and have inspired countless commentaries.

3. Sanskrit Poetry and Drama:

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Works like Kalidasa's Shakuntala and Bharavi's Kiratarjuniya are benchmarks in classical literature, celebrated for their poetic and philosophical depth.

4. Jain and Buddhist Canonical Texts:

Texts like the Jain Agamas and Buddhist Pali Canon (Tipitaka) provide insights into the socio-religious ethos of ancient India.

List of Ancient Indian Texts and Literature

- 1. Vedas
- Rigveda
- Samaveda
- Yajurveda
- Atharvaveda
- 2. Upanishads
- Chandogya Upanishad
- Brihadaranyaka Upanishad
- Katha Upanishad
- Mundaka Upanishad
- 3. Epics
- Mahabharata
- Ramayana
- 4. Puranas
- Vishnu Purana
- Bhagavata Purana
- Shiva Purana
- Brahma Purana
- 5. Sutras and Smritis
- Dharma Sutras
- Manu Smriti

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Yajnavalkya Smriti

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Narada Smriti

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6. Buddhist Texts

- Tripitaka (Sutta, Vinaya, Abhidhamma Pitakas)
- Jataka Tales
- Milinda Panha
- Dhammapada

7. Jain Texts

- Agamas
- Kalpa Sutra
- Tattvartha Sutra

8. Scientific and Mathematical Works

- Aryabhatiya by Aryabhata
- Surya Siddhanta
- Charaka Samhita (Medicine)
- Sushruta Samhita (Surgery)

9. Philosophical Texts

- Yoga Sutras of Patanjali
- Brahma Sutras
- Nyaya Sutras
- Samkhya Karika

10. Tamil Sangam Literature

- Tirukkural
- Silappadikaram
- Manimekalai
- Purananuru

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11. Miscellaneous Works

- Arthashastra by Chanakya
- Mudrarakshasa by Vishakhadatta
- Abhijnanashakuntalam by Kalidasa
- Meghaduta by Kalidasa

12. Other Sanskrit Literature

- Gita Govinda by Jayadeva
- Panchatantra by Vishnu Sharma
- Hitopadesha
- Shatakas by Bhartrihari

13. Religious and Devotional Texts

- Bhagavad Gita
- Adi Granth (Guru Granth Sahib)
- Devi Mahatmya
- Tirumurai

14. Histories and Chronicles

- Rajatarangini by Kalhana
- Harshacharita by Banabhatta

15. Others

- Ashtadhyayi by Panini (Grammar)
- Kamashastra by Vatsyayana
- Lilavati by Bhaskara II (Mathematics)
- Hatha Yoga Pradipika

Knowledge Transmission:

Initially oral, knowledge transmission relied on memorization and recitation by sages and students.

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- 1. Palm-leaf manuscripts and birch-bark texts became the primary media for preserving this knowledge, often stored in temple libraries.
- 2. Ancient Libraries and Universities

Notable Ancient Libraries: Nalanda, Located in present-day Bihar, Nalanda University had an extensive library (Dharmaganja) with three multi-story buildings, storing a vast collection of manuscripts.

Takshashila Focused on diverse disciplines like medicine, law, and military science.

Vikramashila and Odantapuri were centers of Buddhist learning with rich repositories of texts.

3. Script Development:

Brahmi and Kharosthi scripts evolved for inscriptions and manuscripts, contributing to the preservation of knowledge.

Medieval Contributions:

With the influence of Islamic and Persian cultures, Indian knowledge expanded through translations and adaptations.

Mughal Period:

Libraries flourished under emperors like Akbar, who established royal archives and supported translations of Sanskrit works into Persian.

Bhakti and Sufi Movements:

These enriched Indian literature by incorporating vernacular languages, making spiritual and philosophical ideas accessible to common people.

Colonial Era:

Libraries and Western Interaction The British colonial period witnessed a shift in the knowledge system. Modern Libraries: Institutions like the Asiatic Society (established in 1784) aimed to preserve ancient manuscripts while promoting Western education.

Rediscovery of Ancient Texts:

Western scholars translated works like the Bhagavad Gita and Arthashastra, sparking global interest in Indian philosophy and history.

Post-Independence and Modern Development:

National Initiatives:

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Establishment of institutions like the National Library of India and Sahitya Akademi to promote literature and knowledge preservation.

Digital libraries like the Digital Library of India are digitizing manuscripts and books for global access.

Revitalization of Indian Knowledge System (IKS):

Research on Ayurveda, Yoga, and Sanskrit texts has gained momentum. Integration of IKS in educational curricula emphasizes India's scientific, mathematical, and philosophical heritage.

Modern Indian Literature:

Contributions in regional languages have expanded the literary scope, incorporating themes of social justice, independence, and globalization.

Digital Transformation:

Efforts like the National Manuscripts Mission are ensuring preservation and accessibility of ancient texts.

India's knowledge system remains a testament to the country's intellectual heritage and its adaptability to modern challenges. Ancient and contemporary efforts together aim to keep this vibrant tradition alive. The Indian Knowledge System (IKS) is a rich tapestry of diverse disciplines, practices, and philosophies that have evolved over millennia. It reflects India's cultural, spiritual, and intellectual legacy, covering a broad spectrum of subjects such as philosophy, science, literature, art, mathematics, astronomy, medicine, and governance. Rooted in ancient scriptures and traditions, the IKS continues to influence contemporary thought and innovation.

Foundations of Indian Knowledge System:

The IKS finds its origins in the Vedic period (circa 1500–500 BCE), marked by the compilation of the Vedas, which are considered the foundational texts of Indian civilization. The Rigveda, Yajurveda, Samaveda, and Atharvaveda encompass various aspects of life, including cosmology, spirituality, and ethics. Supplementary texts like the Upanishads delve into metaphysics, exploring the nature of the self (Atman) and ultimate reality (Brahman).

Epics and Classical Texts:

The Ramayana and Mahabharata are not only epic narratives but also repositories of moral and ethical guidance. The Bhagavad Gita, part of the Mahabharata, is a philosophical treatise that continues to inspire scholars and practitioners globally.

Classical works like Kalidasa's Shakuntala and Patanjali's Yoga Sutras emphasize literature and holistic well-being, respectively.

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Philosophy:

Six classical schools of Indian philosophy—Nyaya, Vaisheshika, Samkhya, Yoga, Mimamsa, and Vedanta—form the foundation of intellectual discourse, emphasizing logic, metaphysics, and spirituality.

Scientific and Mathematical Contributions:

India has been a cradle of scientific innovation since ancient times, with contributions that have significantly shaped global knowledge.

Mathematics:

Indian mathematicians like Aryabhata, Brahmagupta, and Bhaskaracharya pioneered concepts such as zero, decimal systems, and advanced trigonometry. Aryabhata's work, Aryabhata, introduced the concept of Earth's rotation and revolution, while Brahmagupta formulated rules for solving quadratic equations.

Astronomy:

Indian astronomers developed sophisticated models to predict celestial movements. Varahamihira's Brihat Samhita combined astronomy with meteorology and astrology, while Aryabhata accurately calculated the Earth's circumference.

Medicine:

Ayurveda, India's traditional system of medicine, emphasizes holistic healing through herbal remedies, dietary practices, and therapeutic techniques. Sushruta's Sushruta Samhita and Charaka's Charaka Samhita are seminal texts in surgery and internal medicine, respective

Ancient Libraries and Educational Institutions:

The dissemination and preservation of knowledge were integral to Indian civilization. Educational institutions and libraries became centers of learning, attracting scholars from across the world.

Nalanda University:

Established around the 5th century CE, Nalanda was a global hub of education, housing a vast library (Dharmaganja) with texts on a wide range of subjects. It hosted students and scholars from China, Korea, and Central Asia.

Takshashila:

Considered one of the earliest universities (circa 600 BCE), Takshashila offered education in subjects like medicine, law, and military science.

Libraries and Manuscripts:

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Manuscripts written on palm leaves and birch bark were meticulously preserved in temples, monasteries, and private collections. Scripts like Brahmi, Kharosthi, and later Devanagari played crucial roles in documenting knowledge.

Medieval and Early Modern Periods:

The medieval period witnessed the synthesis of Indian, Islamic, and Persian knowledge traditions. This era saw the translation of Sanskrit texts into Persian and Arabic, facilitating cross-cultural exchanges.

Mughal Influence:

Emperors like Akbar established royal libraries and commissioned translations of texts such as the Mahabharata into Persian (Razmnama). This period also saw advancements in astronomy, architecture, and literature.

Bhakti and Sufi Movements:

These movements democratized knowledge by promoting spiritual and philosophical ideas in regional languages, making them accessible to the masses. Saints like Kabir and Mirabai composed poetry that resonated with diverse audiences.

Colonial Impact and Rediscovery:

The British colonial era introduced Western educational models but also spurred the rediscovery of India's ancient heritage.

Scholarly Efforts:

Institutions like the Asiatic Society of Bengal (founded in 1784) aimed to study and preserve India's cultural and literary treasures. Scholars such as Sir William Jones translated texts like the Manusmriti and the Bhagavad Gita into English.

Modern Libraries:

Public libraries and archival centers were established to house ancient manuscripts and modern literature. The British Museum and the India Office Library acquired numerous Indian manuscripts, some of which are still studied today.

Post-Independence Development:

After India's independence in 1947, efforts to revive and promote the Indian Knowledge System gained momentum.

Institutional Support:

Organizations like the Sahitya Akademi, National Library of India, and National Manuscripts Mission focus on preserving India's literary and cultural heritage.

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Educational Integration:

The National Education Policy 2020 emphasizes the incorporation of IKS in modern curricula. Subjects like Sanskrit, Ayurveda, and Yoga are now studied in schools and universities.

Digitization Initiatives:

Programs like the Digital Library of India aim to digitise ancient texts, making them accessible to researchers and enthusiasts worldwide. Relevance in Contemporary Times The IKS remains highly relevant in addressing modern challenges and fostering innovation.

Sustainability and Holistic Living:

Concepts from Ayurveda and Yoga promote sustainable lifestyles and mental wellbeing. India's traditional agricultural practices emphasize ecological balance.

Global Influence:

The Yoga movement has gained international recognition, with the United Nations declaring June 21 as International Yoga Day. Similarly, Ayurvedic treatments are sought after globally for their natural and preventive approach to health.

Interdisciplinary Research:

Modern scientists and scholars are exploring connections between ancient Indian theories and contemporary scientific paradigms, particularly in quantum physics, artificial intelligence, and sustainability.

Challenges and Opportunities:

While the Indian Knowledge System offers immense potential, its preservation and propagation face challenges.

Preservation of Manuscripts:

Many ancient texts are deteriorating due to neglect and improper storage. Efforts to catalog and digitize these texts need to be intensified.

Integration with Modern Science:

Bridging the gap between traditional and modern knowledge systems requires interdisciplinary research and innovative applications.

Promotion in Education:

The inclusion of IKS in mainstream education can foster cultural pride and inspire new generations to engage with India's intellectual legacy.

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Conclusion:

The Indian Knowledge System represents a timeless and holistic approach to understanding the world. From its ancient roots in the Vedic era to its integration into modern education and global culture, the IKS reflects India's commitment to intellectual growth and spiritual evolution. As digitization and interdisciplinary research gain momentum, the IKS is poised to offer solutions to contemporary global challenges while preserving the essence of India's heritage.

The ancient Indian education system was a beacon of knowledge, blending intellectual and spiritual pursuits. While it declined due to historical changes, its principles of holistic learning and moral development remain relevant. Reviving and integrating these principles with modern education can create a balanced and enriching system for future generations. This highlights the profound impact of ancient Indian education, urging a reconsideration of its methodologies for today's global challenges.

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