

Indian Knowledge System in the Contemporary Era

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Abstract:

The present article examines the resurgence and reinterpretation of Indian Knowledge Systems (IKS) in the contemporary era, focusing on their scientific and philosophical richness, and socio-cultural value. By examining the subjects of Ayurveda, Yoga, Vastu Shastra, Indian logic, mathematics, astronomy, and classical languages such as Sanskrit, the study identifies the holistic worldview which is the essence of IKS. By a multidisciplinary perspective, the article promotes the incorporation of these systems into contemporary education and research systems, contending that the recovery of IKS is not a return to the past but a way to make the future richer. It also reflects on the place of decolonization, language preservation, and epistemological issues in reviving indigenous practices. The article ends by proposing avenues for engaging with IKS through policy, pedagogy, and public debate.

Keywords:

Indian Knowledge Systems, Decolonization, Ayurveda, Sanskrit, Indigenous Knowledge, Epistemology, Yoga, Vastu Shastra

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Introduction

Indian Knowledge Systems (IKS) form a rich and complex brocade of intellectual traditions grown up over centuries. From the metaphysical reflections of the Upanishads to the empirical seriousness of Ayurveda and the logical acumen of Nyaya, India's intellectual tradition offers a pluralistic and integrated cosmology. Yet, most of this corpus was excluded in the colonial era, with Western epistemologies becoming dominant. The current fascination with recovering IKS is a part of a larger movement of cultural decolonization and the need to recover indigenous systems to their proper position in global knowledge production.

This paper aims at presenting an introduction to IKS, its constituent domains, predicaments in reclamation, as well as what the future prospects for incorporation into contemporary intellectual and social situations.

Historical Background of Indian Knowledge System

Indian civilization, being one among the world's oldest, long nurtured myriad streams of scholarly inquiry. It was the Vedic tradition, however, which established the premises for a great variety of learning fields, comprising:

- **Philosophy (Darshana):** Six major schools, including Vedanta, Nyaya, and Samkhya, offered competing yet complementary views on reality, consciousness, and ethics.
- **Linguistics: Panini's Ashtadhyayi:** (-5th century BCE) demonstrated unparalleled grammatical precision.
- **Mathematics and Astronomy:** Figures such as Aryabhata and Bhaskaracharya made contributions to algebra, trigonometry, and planetary models.
- **Medicine (Ayurveda):** Texts like the Charaka Samhita and Sushruta Samhita provided frameworks for holistic health.
- **Political Science and Economics:** Kautilya's Arthashastra provided utilitarian principles of governance and economics. Although rich, colonial intrusions saw the systematic undermining of these systems by Anglicize@gmail.com education and the prioritization of Western paradigms of knowledge (Rao, 2006).

The Need for Reclamation

The postcolonial period has seen a new wave of interest in indigenous systems of knowledge, motivated by a number of imperatives:

1. **Epistemic Justice:** Since colonialism shattered knowledge ecologies, there is an ethical obligation to revive marginalized intellectual traditions (Smith, 1999).

2. Cultural Identity: In a culturally diverse society such as India, revival of IKS strengthens the sense of identity and continuity.

3. Sustainability: Most IKS methods, particularly in agriculture, medicine, and architecture, stress harmony with nature.

4. Global Relevance: Practices such as Yoga and Ayurveda are becoming internationally recognized, testifying to the versatility of IKS in modern contexts.

Core Areas of Indian Knowledge Systems

1. Philosophy and Logic

Indian philosophy is not speculative but analytic in nature. There were schools like Nyaya that evolved advanced methods of inference, perception, and argumentation (Ganeri, 2001). Such systems of logic can contribute to world philosophical debate and education in critical thinking.

2. Language and Linguistics

Sanskrit, commonly regarded as the lingua franca of ancient India, is characterized by a philosophical approach to language whereby form and meaning are inextricably intertwined. Paninian grammar, being algorithmic in nature, has found echoes in contemporary computational linguistics (Staal, 1988).

3. Medicine and Health (Ayurveda and Yoga)

Ayurveda considers health a balance between mind, body, and spirit, a vision being accepted in integrative approaches to health internationally. In like manner, Yoga's psychological and physiological advantages are increasingly established in scientific research (Telles & Naveen, 2008).

4. Architecture and Environment (Vastu Shastra)

Vastu Shastra offers guidelines for spatial harmony and environmental integration, concepts echoed in contemporary sustainable design (Jain, 2011).

5. Science and Mathematics

Indian mathematicians developed the use of zero, decimal systems, and trigonometric functions much earlier than their European counterparts. All these achievements undermine Eurocentric accounts of scientific history (Joseph, 2011).

Challenges in Reviving Indian Knowledge Systems

Although the initiative to revive Indian Knowledge Systems (IKS) has picked up pace in the last few years, it encounters a number of structural and conceptual challenges. These are not only the result of historical dislocation but also reflect the current contradictions between traditional knowledge systems and contemporary paradigms. It is necessary to appreciate these challenges for formulating useful revival and integration strategies.

1. Language Barriers

One of the greatest barriers to accessing IKS is linguistic inaccessibility of original texts. Much Indian knowledge is available in classical languages like Sanskrit, Prakrit, Pali, Tamil, and Persian. These languages, particularly Sanskrit, are not taught or spoken today, and only a small priestly or academic class has proficiency in them.

- **Restricted Availability of Primary Sources:** Most basic books on philosophy, Ayurveda, astronomy, and logic are either untranslated or partially translated. In the absence of direct works, researchers and students must work on the basis of secondary accounts, which might be incomplete or prejudiced.
- **Loss of Oral Tradition: Oral transmission** (by shruti and smriti) was critical in traditional India. With the deterioration of this chain of transmission, much contextual knowledge is lost even when texts exist.
- **Inadequate Language Pedagogy:** Educational institutions generally do not offer systematic training in classical languages. Even if provided, such training is grammar-focused and does not connect linguistic study to the larger IKS framework.

Efforts to breach this obstacle should involve investments in translation work, digital linguistic resources, and a revival of Sanskrit and other classical languages in a useful and application-based context.

2. Colonial Legacy

Marginalization of IKS cannot be comprehensively appreciated unless the epistemic violence of colonial times is recognized. British colonial policies were framed with the intent to delegitimize indigenous systems of knowledge and substitute them with Western frameworks.

- **Collapse of Indigenous Institutions:** Ancient institutions of learning like gurukulas, madrasas, and pathshalas were systematically defunded or destroyed. English-medium schooling became the norm, emphasizing European history, literature, and science over indigenous knowledge.
- **Change in Validation of Knowledge:** British and subsequently post-independence education systems made Western academic standards (empirical evidence, peer review, objectivity) the sole acceptable methods of measuring knowledge, thus rejecting non-Western paradigms as unscientific or superstitious.
- **Internalized Inferiority Complex:** The most enduring legacy of colonialism is the belief that indigenous knowledge is inferior or backward.

This mentality still affects students, teachers, and policymakers, making it difficult to mainstream IKS.

Overcoming this legacy involves decolonizing curricula, engaging in indigenous intellectual history, and validating traditional ways of knowing through academic and cultural discourse.

3. Epistemological Gaps

The overarching intellectual challenge comes in the ontological and epistemological variance between IKS and Western modern scientific paradigms. Knowledge systems in India are holistic in nature, being integrative and experiential, and stress contextual truth, spiritual aspects, and moral aspects—features commonly missing in reductionist scientific schemes.

- **Reductionism vs. Holism:** For example, Ayurveda views health as the balance of doshas (bio-energetic forces) and not as a set of physiological readings. Contemporary biomedicine, which is symptom and pathology oriented, usually has a hard time verifying or even understanding such theories.
- **Non-linear Logic:** Frameworks such as Nyaya and Vedanta work with presumptions regarding consciousness and metaphysics that do not fit well into Western logic or empiricism. This causes tension in comparative research and policy synthesis.
- **Alternative Concepts of Evidence:** IKS tends to be based on introspective and experiential knowledge, oral tradition, and collective wisdom—types of evidence not commonly accepted by conventional academic norms

These loopholes need to be addressed through epistemic pluralism—the acknowledgment that there can coexist, and enhance one another, more than one way of knowing. Experts such as Visvanathan (2009) promote a “cognitive justice” approach, through which indigenous knowledge systems are not hierarchically subordinated but engaged dialogically.

4. Commercialization

Although there is increased international attention to Yoga, Ayurveda, and Indian spirituality, this has also contributed to over-commercialization and decontextualization of the traditions. This development is a serious threat to the true transmission and ethical integrity of IKS.

- **Loss of Depth and Significance:** Yoga, for instance, has been largely compartmentalized into physical postures (asanas) and sold as a form of exercise, taking away the spiritual and philosophical aspect of it. Likewise, Ayurvedic products are often sold without strict following of classical formulation principles.

- **Cultural Heritage Exploitation:** Business operations, particularly in the West, can benefit from IKS practices without acknowledging or rewarding the societies that had conserved them. This constitutes a type of cultural appropriation or biopiracy.
- **Watering Down Ethical and Philosophical Principles:** Traditional systems impart values such as discipline, self-control (niyama), and collective good. Once commercialized, these systems can become instruments of consumer culture instead of means for self-actualization or communal cohesion.

In order to reverse this trend, ethical frameworks and certification systems, as well as education regarding the philosophical foundation of IKS practices, have to be present. Involving practitioners in standard-setting and providing for community participation in profit-sharing are also crucial steps.

The resurgence of Indian Knowledge Systems is a commendable and urgent task, but one fraught with its own difficulties. From colonialism and linguistic differences, through epistemological conflicts and the risk of commodification, each hindrance demands resolutions. Solutions necessitate a rich framework integrating policy, pedagogy, ethics, and cultural awareness to guarantee that the reclaiming of IKS is both real and effective.

Strategies for Reclamation

Reclaiming Indian Knowledge Systems (IKS) needs a multi-pronged strategy that works at institutional, academic, technological, and community levels. The following strategies provide an integrated approach to incorporating IKS into modern life without compromising its integrity and authenticity.

1. Policy Integration

The National Education Policy (NEP) 2020 constitutes a revolutionary move towards the recovery of IKS by stressing its application in contemporary education. It suggests the institutional integration of traditional knowledge within school and higher education syllabi.

Key Areas of Implementation

Curriculum Reform:

IKS has to be integrated into regular courses such as science, mathematics, history, and environmental studies. For instance, students can study Ayurvedic ideas of health in conjunction with contemporary biology or Vedic mathematics in conjunction with algebra. Offering elective modules on Indian philosophy, Sanskrit literature, and indigenous knowledge systems at all levels of schooling promotes interdisciplinarity and cultural literacy.

Teacher Training in IKS:

Teachers need to be properly trained to manage traditional knowledge with academic profundity and cultural sensitivity. This involves integrating IKS into teacher training courses (B.Ed., M.Ed.), conducting workshops with traditional scholars, and developing instructional materials that link ancient and contemporary worldviews.

Institutional Support for Research:

Universities must set up specialized IKS Centers or Chairs for Indigenous Studies. Fellowships and funding opportunities can encourage doctoral and post-doctoral studies in areas such as Indian logic, Ayurveda, ancient metallurgy, and classical music. Collaborative work with traditional practitioners (gurus, vaidya, acharyas) is needed to produce authentic knowledge as well as to document oral traditions.

2. Digital Humanities and Translation Projects

Preservation and access are the major challenges in recovering Indian Knowledge Systems, since the majority of this knowledge is in manuscripts composed in classical languages like Sanskrit, Prakrit, Pali, Tamil, and Persian. Digital humanities present a compelling solution.

Key Initiatives and Actions

National Mission for Manuscripts:

This program of the Indian government is tasked with identifying, cataloging, and digitizing India's manuscript heritage. It works with libraries, temples, monasteries, and private collectors in order to preserve texts related to Ayurveda, astronomy, rituals, and so on. Scaling up the program ensures long-term preservation and greater public access.

Digital Archives and Online Platforms:

Institutions such as Indira Gandhi National Centre for the Arts (IGNCA), Sanskrit Research Institutes, and other state archives are creating digital repositories. These websites can offer open access to scanned manuscripts, searchable databases, and multimedia annotations making IKS accessible to scholars across the world.

Translation and Transcription Projects:

Most classical works are still untranslated or badly translated. Translation of the major works in contemporary Indian languages and English with academic seriousness is necessary for mass outreach. Furthermore, digital text transcription (Unicode format) enables computational analysis, which can assist linguistic, philosophical, and scientific studies.

Crowdsourced Annotations and Commentaries:

Contemporary technology also has the ability to accommodate those platforms for joint annotation and comment on IKS texts, infusing time-tested commentary (bhashya) traditions into cyberspace.

3. Interdisciplinary Research

IKS itself is interdisciplinary in nature—comprising philosophy, science, medicine, art, and spirituality. To truly explore its promise, joint work involving traditional practitioners of knowledge and contemporary specialists must ensue.

Strategic Avenues:

Joint Research Projects:

Academicians from medicine, environmental studies, computer science, architecture, and music can work with traditional practitioners (vaidya, pandits, ustads) to create new knowledge. For instance, bio-medical scientists researching Ayurvedic pharmacology can test traditional formulations using modern scientific techniques.

Academic Incubators and Think Tanks

Interdisciplinary institutes may also serve as think tanks bringing together domains, for example, Vastu Shastra and green architecture or Nyaya logic and AI. IITs and IISERs already have pilot runs in Sanskrit computational linguistics and traditional systems of knowledge.

Research Publications and Journals

Encouraging well-indexed peer-reviewed journals dedicated to IKS constructs scholarly legitimacy and offers a venue for international dialogue. The journals can accommodate dual-language submissions (classical and new languages) and interdisciplinary articles.

Knowledge Integration Workshops

Conferences and workshops with classical practitioners speaking alongside scientists have the potential to create a basis of mutual respect and new research questions. Such meetings breach disciplinary boundaries and advance indigenous knowledge from folklore to respected intellectual contributions.

4. Community Involvement

Fundamentally, IKS is a living tradition that is maintained not in libraries but in the day-to-day practices of society. Its revival and conservation at the local level guarantees that it continues and remains relevant.

Key Approaches:

Revival of Traditional Practices:

Promoting community-driven initiatives in organic agriculture, traditional medicine, ethnomusicology, craftsmanship, and traditional food systems can help conserve living knowledge systems. For instance, tribal medicine in areas such as Odisha or Nagaland provides crucial ecological and biomedical knowledge that must be documented and supported.

Oral Traditions and Storytelling:

Several cultural values, histories, and philosophical observations are transmitted orally. Projects recording, archiving, and bringing back traditional narrative storytelling (katha, harikatha, baul, pandavani) can guarantee transmission across generations. Schools and NGOs can incorporate these forms in cultural education.

Knowledge Exchange Between Elders and Youth:

Promoting platforms where community elders exchange traditional knowledge with pupils promotes cultural pride and tradition. These may involve seasonal celebrations, agricultural practices, or home remedies—ensuring that IKS is still integral to daily life.

Micro-Grants and Incentives:

Traditional knowledge holders can be provided with micro-grants by government agencies and philanthropic institutions so that they can document, educate, or utilize their skills. These incentives ensure that the knowledge is not lost because of financial constraints and drive innovation in tradition.

Livelihood Program Integration:

IKS has the potential to act as a source of livelihood and entrepreneurship. For instance, educating young people in Ayurvedic treatments, Yoga teaching, or traditional handloom procedures has the ability to translate heritage into opportunity.

These four strategies, namely policy integration, digital humanities, interdisciplinary studies, and community engagement, combined together constitute an inclusive blueprint for retrieving Indian Knowledge Systems. Top-down efforts via policy and education are crucial, yet the strength of IKS relies equally on bottom-up outreach and inter-disciplinary conversation. A collaborative, open, and respectful strategy is needed to make sure that IKS is not only conserved as a museum piece but proactively shapes the future.

Case Studies

1. Traditional Ecological Knowledge in Northeast India

The indigenous tribes of the Northeast have maintained biodiversity through oral ecological knowledge, providing models for conservation (Pretty et al., 2009).

2. Sanskrit Computational Linguistics

Institutions such as the Indian Institute of Technology (IIT) have launched projects that use artificial intelligence to analyze Sanskrit texts for semantics.

3. Revival of Ayurvedic Education

Universities like Banaras Hindu University and Gujarat Ayurved University are widening their courses to both conventional and conventional scientific methods.

Conclusion

Reclaiming Indian Knowledge Systems is an urgent project in the global and postcolonial era. Anything but an exercise in nostalgia, this process of reclamation is a dynamic move forward offering new epistemologies, green technologies, and profound philosophical thoughts. To become fully realized, however, interdisciplinarity, open policies, and cross-cultural debate are necessary. India's intellectual legacy, once overlooked is now emerging as a valuable contributor to global knowledge, promoting diversity and collaboration.

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