



Integrating Indian Knowledge System Pedagogy into Contemporary Education

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Abstract:

The Indian Knowledge System is very broad concept which covers multiple fields of knowledge developed in ancient and medieval India. Indian philosophy explores the nature of reality, self, and consciousness. Ancient India was a land of sages and seers. Major philosophical traditions include Vedanta, Samkhya, Yoga, Nyaya, Vaisheshika and Mimamsa. It draws heavily from ancient texts such as the Vedas, Upanishads, Ramayana, and Mahabharata. India developed advanced linguistic studies like a famous work is the grammar treatise Ashtadhyayi by Panini, Natya Shastra by Bharata Muni and Arthashastra written by Chanakya and many others.

The term comes from the Greek language word paidagogos, which originally referred to a person who guided or instructed children. As discussed earlier; we have a great heritage of Ancient Indian Pedagogical Thought that was found in Vedic Literature and Educational Practices. IKS has our Vedas, the Rigveda, Samaveda, Yajurveda, and Atharvaveda. In ancient India we have a great heritage of pedagogy of Guru–Shishya Tradition, The Oral Tradition, Dialogue and Debate Method.

Modern education emphasizes innovation and digital tools, traditional methods still provide a strong foundation for learning. The most important feature of modern pedagogy is in the Role of Technology that has transformed education through Virtual classrooms, educational videos and interactive simulations.

Integration of Traditional Pedagogy in Contemporary Education refers to combining time-tested teaching methods from earlier educational traditions with modern approaches, technologies, and learning theories

Keywords: *Indian Knowledge System, teaching methods used in traditional Indian learning systems, knowledge transmission in ancient India, pedagogical methods, philosophical foundations, relevance in contemporary education, Vedic Literature, Educational Philosophy.*

Introduction:

Indian Knowledge System and Education:

Indian Knowledge System (IKS) can be defined as, “*The accumulated body of knowledge, practices, skills, philosophies, and traditions developed in India through centuries, rooted in Indian culture, philosophy, and experience, and transmitted through texts, oral traditions, and institutional learning.* Ancient India was a land of sages and seers as well as a land of scholars and scientists. Science including Mathematics,

Physics, Chemistry, Medicine, Humanities and literature philosophy, spirituality, and practical life and aims at holistic human development and harmony with nature. It draws heavily from ancient texts such as the Vedas, Upanishads, Ramayana, and Mahabharata. Acharya Shusruta was the first Plastic Surgeon and Cataract Surgeon from ancient India, physician Charaka authored a foundational text, Chakrasnkhita, on the ancient science of Ayurveda, Rishi Kanad explored the atomic theory hundred years before John Dalton,

Arybhata had invented 'Zero' and the binary number system was introduced by Pingla.

Albert Einstein said that, "We Owe a lot to the ancient Indians, teaching us how to count. Without which most modern scientific discoveries would have been impossible."

The scope of IKS is very broad and covers multiple fields of knowledge developed in ancient and medieval India. Indian philosophy explores the nature of reality, self, and consciousness. Major philosophical traditions include Vedanta, Samkhya, Yoga, Nyaya, Vaisheshika and Mimamsa. These systems discuss ethics, logic, metaphysics, and liberation (moksha). Traditional medical systems developed in India include Ayurveda, Yoga and Siddha Medicine and Unani Medicine traditions too.

Language and Literature:

India developed advanced linguistic studies like a famous work is the grammar treatise **Ashtadhyayi** by Pāṇini, which is one of the most sophisticated analyses of language in history. So far as ancient Indian literature is concerned there were various genres available like Poetry, Drama, Epic, Philosophical texts and many others. In Arts and Culture sector we have aesthetic and artistic systems like Natya Shastra by Bharata Muni, theory of drama, dance, and music, Classical music traditions, Temple architecture and Sculpture and painting. Indian thinkers also contributed to political science and economics. One major text is **Arthashastra** written by Chanakya, which discusses Governance, Administration, Economic policies, Diplomacy and warfare. Indian Knowledge System has some salient features like Holistic approach, Interdisciplinary nature, Practical orientation, Oral and textual tradition knowledge which was preserved through guru–shishya tradition and scriptures.

Concept of Pedagogy in Ancient Indian Tradition:

Pedagogy refers to the **art, science, and practice of teaching**, especially the methods and strategies used to help students learn effectively. The term comes from the Greek language word *paidagogos*, which originally referred to a person who guided or instructed children. Educational philosophy focused on holistic development of the learner.

As discussed earlier; we have a great heritage of Ancient Indian Pedagogical Thought that was found in Vedic Literature and Educational Practices. IKS has our Vedas, the Rigveda, Samaveda, Yajurveda, and Atharvaveda. All of them focus upon Educational ideas like spiritual and moral development, importance of discipline, truth, and self-control and learning through memorization, recitation, and oral tradition. We found the educational talks in Upanishads, Bhagavad Gita and Arthashastra that was implemented through the academic institutes like ancient universities and learning centres such as Nalanda and Takshashila Universities.

Pedagogical Methods in the Indian Knowledge System:

In ancient India we have a great heritage of pedagogy of **Guru–Shishya** Tradition where personal relationship between teacher and student were developed and maintained to make teaching and learning as a way of living life structurally through guidance, observation, and discipline. **The Oral Tradition** of teaching learning was in practise for the recitation and repetition for knowledge preservation. The base of this structure was Vedic education. The next method of pedagogy was **Dialogue and Debate Method** through which the knowledge developed through question–answer sessions, discussions and philosophical debates as a learning tool.

Experiential and Practical Learning was also one of the great pedagogical methods often used to learn through the practice in fields like medicine, warfare, philosophy, and arts.

To transform a student into a responsible civilian for the good state; the **Moral and Value-Based Education** was taught through *Ashramas* aiming at a building character, ethics, and social responsibility. All these pedagogies were applied through the great tradition of *Ashramas* where *Guru and Guru Maa* treat their students as their own children who join *Ashram* by leaving their parents and home. They stay there in the *Ashrama* upto younghood. By doing all the domestic and important works through which they are given the lessons of practical life. They attend the classes where all types of academic knowledge was gained while they were also taught the various exercises, animal husbandry, farming, cooking and various types of skills related to environment, geography, history and sciences.

The Educational Philosophy of the Indian Knowledge System build well-rounded individuals, improved emotional balance and resilience, encouraged ethical and responsible behaviour and supported overall life satisfaction and success.

Pedagogical Methods in Modern Indian Education:

Modern education emphasizes innovation and digital tools, traditional methods still provide a strong foundation for learning. It refers to the contemporary ways societies organize teaching and learning. They emphasize **technology integration, critical thinking, accessibility, and lifelong learning**, rather than only memorization. The characteristics of Modern Education Systems include **Technology Integration** where the use of **online learning platforms, digital textbooks and virtual classrooms is applied. It uplift the Critical Thinking** to encourage the **problem-**

solving, creativity, and analytical thinking rather than rote memorization. The students work on projects, discussions, and real-life problem solving for Global Learning where education is more internationally connected and students can attend online courses from universities worldwide. The modern pedagogy motivate Student centered Learning where Teachers act more as **guides or facilitators and** learning is customized to students' abilities and interests.

There are some common pedagogical methods in modern education system such as Project-Based Learning in which the students learn by completing real-world projects, Blended Learning where the combination of online learning and classroom teaching is happened. Then we have Collaborative Learning which focuses the work in teams to solve problems and Experiential Learning through experiments, internships, and practical activities students get enriched academically.

The most important feature of modern pedagogy is in the Role of Technology that has transformed education through Virtual classrooms, educational videos and interactive simulations. The advantages of pedagogical methods of modern education are as easy access to global knowledge, flexible learning schedules, personalized learning paths and development of modern skills. But the pedagogy in modern education definitely has some challenges like the unavailability of recourses like computers, internet access, digitally trained teachers and most basic the awareness in the stakeholder society.

In simple terms, modern education system focuses on technology, creativity, flexibility, and real-world skills to prepare students for today's rapidly changing world. Modern Education Systems refer to the contemporary ways societies organize teaching and learning. They emphasize technology integration, critical thinking,

accessibility, and lifelong learning, rather than only memorization.

Limitations of Modern Indian Education Systems:

Modern education systems have expanded access to schooling worldwide, but they still face several important limitations such as students often memorize information instead of developing critical thinking and success becomes tied to test performance rather than creativity, curiosity, or problem-solving. In many regions, curricula change slowly while society and technology evolve rapidly. Some subjects and teaching materials do not reflect modern realities or job markets. Rigid and strict evaluation systems may discourage experimentation and creativity and students may fear failure or trying unconventional ideas. The most harmful issue is that the artistic, innovative, or independent thinking is sometimes undervalued. The competition, high expectations, and academic pressure lead to stress and anxiety and sometime reduce motivation to learn.

Relevance of Traditional Pedagogical Methods in Contemporary Education:

Integration of Traditional Pedagogy in Contemporary Education refers to combining time-tested teaching methods from earlier educational traditions with modern approaches, technologies, and learning theories. The aim is to preserve valuable cultural and intellectual practices while adapting them to the needs of the 21st-century learner.

Traditional pedagogy focuses on teacher centred instruction, moral education, discipline, and systematic knowledge transfer such as **Guru–Shishya tradition** in ancient Indian education and character formation and value-based education that should inculcate ethics courses,

mindfulness practices and community service learning. Modern pedagogical methods can adopt seminars and debates, inquiry-based learning, memory retention, cultural understanding and emotional engagement.

The integrating traditional pedagogy with contemporary education system will be useful to preserve cultural heritage, promote holistic development, strengthen ethical awareness and enhance student engagement

Conclusion:

The integration of traditional pedagogy of ancient India with contemporary education (National Education Policy 2020) will create a balanced learning system that shall combine cultural wisdom with modern educational innovations. By blending traditional values, mentorship and dialogic learning with technology and student centred approaches; education can become more holistic, meaningful, and adaptable to future societal needs.

References / Works Cited:

1. Chatterjee, Satishchandra. An Introduction to Indian Philosophy. Rupa & Co; New Delhi. 2012
2. Dharmpal, Pragasam, Vedic Anatomy. Notion Press: Chennai. 2024
3. Jain,P.C. Early Indian Art and Architecture. Kala Prakashan: Delhi.2015
4. Kumar, Alok. Ancient Hindu Science. Jaico Publishing House: Mumbai.2019.
5. Rao, Padmarani L.V. The Bhagwad Gita: a Source to Soft Skills. A.R.Publishing Co.: New Delhi.2023
6. BharataShrivastav, Arpit. Indian Knowledge System “Journey From Ancient Scientific & Vedic Theories” to “Modernization of Science & Society” Book Rivers: Lacknow.2004.