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# Shiksha Shodh Manthan

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SHIKSHA SHODH MANTHAN  
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# From STEM to STREAM: Integrating Aesthetics through Indian Knowledge Systems in Contemporary Education

Dr. Dhriti Tiwari\* & Dr. Azkiya Waris\*\*

\* Assistant Professor, Department of Education, Integral University, Lucknow (U.P.), India

\*\* Associate Professor, Department of Education, Integral University, Lucknow (U.P.), India

## Abstract

*Education in the STEM (Science, Technology, Engineering, and Mathematics) has grown in prominence in the 21st century as a means to propel technological advancement and monetary prosperity. Although this approach has made it easy for people to solving problems, think analytically, and use technology, it often ignores the creative, moral, and emotional parts of learning that are equally important for developing a holistic personality. To remove this imbalance, there has been a shift in educational priorities away from STEM (Science, Technology, Engineering, and Mathematics) and towards STEAM (Science, Technology, Engineering, Arts, and Mathematics), which places an emphasis on the value of aesthetics, communication, and creativity alongside scientific inquiry. IKS, is a generic term covering a huge diversity of indigenous methods of knowing, doing, and thinking. Knowledge in IKS is always considered as an integrated, and worthwhile pursuit. According to IKS science, art, logic and intuition, practicality and aesthetics all work together in perfect harmony, making learning an organic process. The way modern fields are divided it is different from the traditional practices in Architecture (Vāstu Śāstra), Mathematics, music (Nāṭya Śāstra), and medicine (Āyurveda) which showcase an impressive combination of artistic sensibility and scientific accuracy. By reintroducing the creative and cultural dimensions of knowledge, this study argues that IKS can transform STEM into STREAM (Science, Technology, Reading/Reflection, Engineering, Arts, and Mathematics) an integrated model of learning that unites cognitive, creative, cultural, Political, and ethical dimensions through IKS. Sustainable learning in the modern world requires scientific literacy, aesthetic appreciation, ethical awareness, and ecological concern, all of which can be enhanced by integrating IKS concepts into existing educational practices. As also emphasized by NEP2020 that the goal of education is holistic development of an individual and learning can only take place when an integrated and multidisciplinary approach applied to education which will promotes creativity, critical thinking, and cultural belonging. This paper critically reviews existing literature on the incorporation of Indian Knowledge Systems (IKS) into the transition from STEM to STREAM education. It develops a theoretical understanding of how IKS-based aesthetics and pedagogical principles can enrich this transformation, fostering holistic, creative, and culturally grounded learning aligned with the vision of NEP 2020.*

**Keywords:** IKS, STEM, STEAM, STREAM, NEP2020, Meaningful learning.

## Introduction :

Driven by the need for a workforce that can compete in a technology-oriented global economy U.S. National Science Foundation (N.C.F) introduced cohesive and an experiential learning methodology that integrated Science, Technology, Engineering, and Mathematics to