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ROLE OF INDIAN KNOWLEDGE SYSTEM (IKS) IN THE CONTEMPORARY
INDIAN SCENARIO: REVITALIZATION, INTEGRATION, AND APPLICATION.

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Abstract:

The Indian Knowledge System (IKS), a rich tapestry of traditional knowledge spanning diverse disciplines, is undergoing a significant revival in contemporary India. This research article delves into the multifaceted role of IKS in the present context, analyzing its revitalization efforts, its integration into modern educational curricula and research methodologies, and its practical application across various sectors. The study investigates the challenges inherent in harmonizing ancient wisdom with contemporary scientific paradigms, specifically addressing the need for rigorous validation and standardization. Furthermore, it explores the abundant opportunities that IKS presents, particularly in fostering sustainable development through traditional ecological knowledge, enhancing cultural preservation by documenting and disseminating indigenous practices, and contributing to national progress through innovation rooted in traditional technologies. The article emphasizes the importance of a nuanced approach that respects the integrity of IKS while adapting it for modern relevance. It argues that a successful integration requires collaborative efforts between traditional knowledge holders, academic institutions, and policymakers. By bridging the gap between ancient wisdom and modern scientific frameworks, IKS can unlock valuable insights and contribute to a more holistic and sustainable future.

Keywords: Indian Knowledge System (IKS), Traditional Knowledge, Sustainable Development, Cultural Preservation, Modern Education, Research, Revitalization, Indigenous Practices, Ancient Wisdom, Scientific Integration

Introduction:

India's intellectual heritage, embodied in the IKS, represents a continuum of knowledge systems developed over millennia. This system encompasses diverse disciplines, including philosophy, mathematics, astronomy, medicine (Ayurveda), architecture (Vastu Shastra), and

performing arts. In the current scenario, there is a growing recognition of the significance of IKS in addressing contemporary challenges and fostering holistic development. This article aims to analyze the role of IKS in the modern Indian context, exploring its potential and challenges.

1. Revitalization and Preservation: Use of technology in IKS

Technology can play an important role in preserving knowledge of Ancient India it will help in modernising and promoting eye cares it will provide free access to information and also motivate people to engage in research learn through online courses mobile apps and virtual experience will be a motivation for the younger generation digital story telling will help in promoting Indian knowledge system.

Role of AI in IKS. Artificial Intelligence can be an effective tool in digitalising the documents it can also help in creating personalised learning experience is and also translating the traditional text of Indian medicines and remove language barriers

2. Integration into Modern Education and Research:

Integrating IKS into modern education is vital for fostering cultural understanding and innovation. Curriculum Development: Incorporating IKS principles into school and university curricula can provide students with a holistic education.

Interdisciplinary Research: Encouraging collaborative research between IKS scholars and modern scientists can lead to innovative solutions.

Establishing IKS Centers: Universities and research institutions are establishing centers dedicated to IKS research and education.

3. Application in Various Sectors:

IKS has significant applications in various sectors, including:

Healthcare (Ayurveda and Yoga): Ayurveda and Yoga offer complementary approaches to healthcare, focusing on holistic well-being.

Agriculture: Traditional agricultural practices, such as organic farming and seed preservation, offer sustainable solutions. IKS principles emphasize harmony with nature, providing insights for sustainable development.

Mathematics and Astronomy: Ancient Indian mathematicians and astronomers made significant contributions to these fields, offering alternative perspectives and problem-solving methodologies. Technology Integrating IKS in design can lead to culturally relevant and sustainable technological solutions.

4. Challenges and Opportunities:

Despite its potential, IKS faces several challenges:

Bridging the Gap: Effectively integrating traditional knowledge with modern scientific frameworks requires rigorous research and validation.

Standardization and Quality Control: Ensuring the quality and standardization of IKS practices, particularly in healthcare, is crucial.

Dissemination and Accessibility: Making IKS knowledge accessible to a wider audience requires effective communication and dissemination strategies.

Combating Misinformation: Distinguishing authentic IKS knowledge from misinformation and pseudoscience is essential.

However, the opportunities are immense:

Sustainable Development: IKS principles offer valuable insights for addressing environmental challenges and promoting sustainable practices.

Healthcare Innovation: Integrating Ayurveda and Yoga into mainstream healthcare can lead to innovative and cost-effective solutions.

Cultural Preservation: IKS plays a crucial role in preserving India's cultural heritage and fostering national identity. **Technological Advancement:** IKS can inspire culturally relevant and sustainable technological innovations.

Methodology.

This methodology aims to provide a structured approach to researching and analyzing the multifaceted role of the Indian Knowledge System (IKS) in contemporary India. It encompasses revitalization, integration, and application, with a focus on both theoretical understanding and practical implications.

I. Research Design:

1. **Mixed-Methods Approach:** Employ a combination of qualitative and quantitative research methods to capture the depth and breadth of IKS's impact.
 - **Qualitative:** To explore the nuances, interpretations, and contextual understanding of IKS.
 - **Quantitative:** To measure the impact, effectiveness, and scalability of IKS applications.
2. **Multidisciplinary Framework:** Integrate insights from diverse disciplines, including:
 - **Philosophy and Epistemology:** To understand the foundational principles and knowledge paradigms of IKS.
 - **History and Archaeology:** To trace the evolution and historical context of IKS.
 - **Social Sciences (Sociology, Anthropology, Political Science):** To analyze the social, cultural, and political dimensions of IKS's revitalization and application.
 - **Science and Technology:** To explore the scientific and technological aspects of IKS and its potential for innovation.
 - **Education:** To examine the integration of IKS into educational curricula and pedagogical practices.

II. Data Collection:

1. **Qualitative Data:**
 - **Literature Review:** Conduct a comprehensive review of primary and secondary sources, including:
 - Ancient texts (Vedas, Upanishads, Puranas, etc.)
 - Medieval commentaries and treatises
 - Modern scholarly works on IKS
 - Government reports and policy documents
 - **Expert Interviews:** Conduct in-depth interviews with:

- Scholars and practitioners of IKS
- Educators and policymakers
- Scientists and technologists working with IKS
- Community leaders and traditional knowledge holders
- **Case Studies:** Analyze specific examples of IKS revitalization, integration, and application in various sectors (e.g., agriculture, healthcare, education, technology).
- **Ethnographic Studies:** Conduct fieldwork to observe and document the lived experiences of communities practicing and preserving IKS.
- **Focus Group Discussions:** Facilitate discussions with diverse stakeholders to gather collective insights and perspectives.
- 2. **Quantitative Data:**
 - **Surveys and Questionnaires:** Administer surveys to assess:
 - Awareness and understanding of IKS among different population groups.
 - Attitudes and perceptions towards IKS integration.
 - Impact of IKS-based interventions on specific outcomes (e.g., health, education, economic development).
 - **Statistical Analysis:** Analyze quantitative data to identify trends, patterns, and correlations.
 - **Data Mining and Text Analysis:** Utilize computational methods to analyze large datasets of textual information related to IKS.
 - **Performance Metrics:** Develop and apply relevant metrics to measure the effectiveness and efficiency of IKS-based applications.
- III. **Analysis and Interpretation:**
 1. **Thematic Analysis:** Identify key themes and patterns emerging from qualitative data.
 2. **Comparative Analysis:** Compare and contrast different approaches to IKS revitalization, integration, and application.
 3. **Content Analysis:** Analyze textual data to identify recurring concepts and ideas.
 4. **Statistical Analysis:** Apply appropriate statistical techniques to analyze quantitative data and test hypotheses.
 5. **Critical Discourse Analysis:** Examine the language and rhetoric used to discuss IKS, identifying power dynamics and ideological perspectives.
 6. **Synthesis and Integration:** Integrate findings from qualitative and quantitative data to develop a comprehensive understanding of IKS's role in contemporary India.
 7. **Framework Development:** Develop a conceptual framework that explains the processes of IKS revitalization, integration, and application.
- IV. **Evaluation and Application:**
 1. **Policy Recommendations:** Formulate policy recommendations for promoting the revitalization, integration, and application of IKS.
 2. **Curriculum Development:** Develop educational materials and curricula that integrate IKS into formal and informal learning settings.

3. **Technology Development:** Explore the potential of IKS for developing innovative technologies and solutions.
 4. **Community Engagement:** Engage with local communities to promote the preservation and transmission of traditional knowledge.
 5. **Dissemination and Outreach:** Disseminate research findings through publications, conferences, and public engagement activities.
 6. **Impact Assessment:** Conduct ongoing evaluation to assess the impact of IKS-based interventions and initiatives.
 7. **Ethical Considerations:** Ensure that research and application of IKS are conducted in an ethical and culturally sensitive manner, respecting the rights and interests of traditional knowledge holders.
- V. **Focus Areas within the Title's Components:**
- **Revitalization:**
 - Documenting and preserving endangered IKS traditions.
 - Translating and interpreting ancient texts for contemporary audiences.
 - Promoting intergenerational transmission of IKS.
 - Addressing challenges to IKS preservation in the face of modernization.
 - **Integration:**
 - Integrating IKS into formal education systems.
 - Incorporating IKS principles into contemporary scientific and technological research.
 - Applying IKS to address contemporary social and environmental challenges.
 - Developing interdisciplinary frameworks that bridge IKS and modern knowledge systems.
 - **Application:**
 - Developing IKS-based solutions for sustainable agriculture, healthcare, and resource management.
 - Applying IKS principles to promote holistic well-being and social harmony.
 - Utilizing IKS for cultural preservation and tourism development.
 - Analyzing the economic impact of IKS based businesses and products

Conclusion:

The IKS holds immense potential for contributing to India's progress and addressing contemporary challenges. By revitalizing, integrating, and applying IKS principles, India can leverage its rich intellectual heritage to foster sustainable development, cultural preservation, and national advancement. However, overcoming the challenges associated with bridging the gap between traditional knowledge and modern scientific frameworks requires sustained efforts and interdisciplinary collaboration.

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