



Faculty of Education
Department of
Education



NATIONAL CONFERENCE

ON

INDIAN KNOWLEDGE SYSTEM IN CONTEXT OF SUSTAINABLE DEVELOPMENT GOALS: ALIGNMENT AND EVALUATION

20TH & 21ST NOVEMBER 2024

SOUVENIR



ORGANIZED BY

DEPARTMENT OF EDUCATION, FoE

SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT

in Collaboration with

COUNCIL FOR TEACHERS PROFESSIONAL DEVELOPMENT (CTPD), INDIA

&

UNIVERSITY FACULTY DEVELOPMENT CELL (UFDC), SVSU, MEERUT, (U.P.) INDIA

**National Conference on
Indian Knowledge System in Context of Sustainable Development Goals: Alignment and
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Associate Professor, Assistant Professor
Department of Education, Department of Education,
FoE, SVSU, Meerut FoE, SVSU, Meerut

About the National Conference on

“Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation”

**Organized by Department of Education, FOE, SVSU, Meerut
in Collaboration with Council for Teachers Professional Development (CTPD), India
&**

**University Faculty Development Cell (UFDC), SVSU, Meerut, India
Date: 20th & 21st November-2024**

BACKGROUND:

About Meerut

Meerut is a city in the Indian state of Uttar Pradesh. The city lies 70 KM northeast of the National Capital of New Delhi and 453 KM northwest of the state capital, Lucknow. It is the second largest city in the National Capital Region of India (the largest being New Delhi)

About the University “Where Education is a Passion”

Welcome to **Swami Vivekanand Subharti University**.

Swami Vivekanand Subharti University (SVSU) is a University under section 2(f) of the University Grant Commission (U.G.C.) Act, 1956 set up under the Swami Vivekanand Subharti Vishwavidyalaya, Uttar Pradesh Adhiniyam, 2008 (U.P. Act No.29 of 2008) as passed by Uttar Pradesh Legislature and assented by the Hon’ble Governor of Uttar Pradesh in September 2008.

The main campus of the University is in the National Capital Region, strategically situated on National Highway 58, Delhi Haridwar by pass road, Meerut, the campus aptly called 'Subhartipuram', is spread over a sprawling area of about 250 acres of land comprising of magnificent buildings, lush green lawns and vibrant surroundings with over 5000 people, determined to make this a 'Jewel in the Crown' of the nation.

The University has several constituent colleges which provide higher education in almost all the disciplines like Medical, Dental, Nursing, Subharti School of Buddhist Studies (SSBS), Physiotherapy, Paramedical, Pharmacy, Naturopathy, Yogic Sciences, Engineering, Management, Law, Journalism, Education, Library Science, Hotel Management, Faculty of Science etc. thus engaged in creating academically and technically proficient professionals.

The University boasts of highly qualified, dedicated and competent faculty from all walks of life, world class infrastructure, fully equipped Laboratories with latest state-of-the-art equipment and a huge library with recent knowledge resources including e-resources.

The Uniqueness of Subharti University lies in providing an environment fully conducive to the overall development of students, thus maintaining a balance between academic excellence and moral perfection. The University has also started a number of courses through Distance Education, approved by a joint committee of UGC, AICTE, and DEC. The University has been awarded the membership of Association of Indian Universities in 2013.

"All India Conference of Intellectuals and School of Educators” have conferred “Outstanding University of the Year 2013-2014” to the University for its outstanding contribution in the fields of education, science, healthcare, national integration, social empowerment and preservation of cultural heritage.

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The University has been accredited grade 'A' by NAAC.

About the Faculty of Education

The Faculty of Education is an integral part of Swami Vivekanand Subharti University. It plays an important role in the field of Teacher Education by running Courses such as B.El.Ed., B.Ed., M.Ed. and Ph.D. in Education & B.P.Ed., B.P.E.S, M.P.Ed., P.G.D.Y. (PG Diploma in Yoga), P.G.D.M.S. (PG Diploma in Sports Management) and Ph.D. in the field of Physical Education.

About the Department of Education

Uttakalmani Gopabandhu Das, Department of Education is a constituent college of Faculty of Education, Swami Vivekananda Subharti University, Meerut and was established in 2008. It's all the programs are duly recognized by NCTE as well UGC such as Doctor of Philosophy (Ph.D.), Master of Education (M.Ed.), Bachelor of Education (B.Ed.) and Bachelor of Elementary Education (B.El.Ed.). Department of Education lays emphasis to prepare research-oriented teachers, with high ethical & moral values, who can groom the future generation for being responsible and accountable citizens of the country. The pupilteachers are trained to cope with the dynamic emerging trends of society by using their high logical, critical and reflective thinking, which will enable them to solve the modern educational problems as well as sustain the Indian culture and ethos. Department of Education has highly impressive and well-equipped infrastructure, amenities and high-profile faculty members. Department boasts of numerous facilities like an air-conditioned library, seminar hall with ICT tools, well-equipped laboratories & resource centers and lecture halls with modern ICT facilities. Internship, research projects, Seminars, conferences, workshops, community works, extension activities, cultural and sports activities are the salient features of the Department.

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About the National Conference

The Sustainable Development Goals adopted by United Nations in 2015 targets Global Prosperity at optimum level by 2030. It has 17 Goals and covers exhaustively all the important aspects of human development extending from poverty to partnership for the goal. It has incorporated all the essential dimensions through social, economic and environmental sustainability; which will take the progress of mankind to its zenith.

The Indian Knowledge System; which dates back to Vedic era; has been a beacon of light for Indian society in past as well as present generation. The rich knowledge embedded in Indian Knowledge System can prove to greatly enhance our understanding about the proud heritage of India and remind us of its glorious past. It has touched all the important dimensions of development ranging from astronomy, science, mathematics, town planning, medicine, literature, grammar, philosophy, warfare technology, yoga, fine arts, etc.

It will be a matter of great interest to probe into the reflection of Indian Knowledge System in UN Sustainable Development Goals as the objectives of both of them is human progress and development. Delving into this thought-provoking theme will hint at the brilliance of Indian intellect and its functioning in the futuristic direction.

Sub Themes

1. Indian Knowledge System for the Conservation and Protection of the Environment
2. Education and Prosperity in context of Sustainable Development Goals
3. Gender Equality in Education and Sustainable Development
4. Indian Knowledge System and Innovations for enhancing Human Development
5. Indian Knowledge System for Peace and Justice at Global Level
6. Ancient Indian Education for Quality Life
7. Process of Teaching Learning and Sustainable Development Goals
8. Indian Science and Sustainable Development Goals
9. Indian Medicine and Sustainable Development Goals
10. Well - being and Sustainable Development Goals
11. Education for Conservation of Energy Resources
12. Education for Economic Growth
13. Government Initiatives and Evaluation of Sustainable Development Goals

Guidelines for submission of abstract and full papers

1. Kindly send your Abstract and full paper on- educonference24@gmail.com
2. Original papers based on theoretical and experiential works should be related to the Seminar themes.
3. Author(s) should mention their designation along with the institutional affiliation and contact details.
4. The paper should begin with title, short abstract and a list of key words.
5. The abstract/paper should be typed in **MS-WORD, 12-Point Times New Roman 1.5 line spacing** in English Language

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6. For Hindi Language, the abstract/paper should be typed in **KRUTI DEV-010, 14-Point Times New Roman 1.5 line spacing.**
7. The abstract should be limited up to 500 words only and the full paper should be 10-12 pages.
8. Figures and Tables should appear within the body of the paper and should be numbered consecutively. The figure and table number and description should appear at the center in bold face 12-point type at the top.
9. Simultaneous submissions (Paper already submitted to other conferences/journals) are not allowed.
10. The plagiarism must not exceed the limit of 20% including references; also send plagiarism report with your article/ research paper.
11. Illustrations, symbols or parts of a figure should be produced graphically, if possible.
12. References to other publications must be in the sixth edition of the publication.
13. The organizing committee reserves the right to accept or reject the final paper at their direction.

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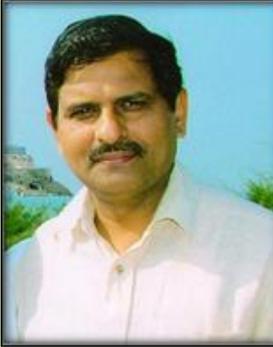


Maj Gen (Dr.) G.K. Thapliyal
Hon'ble Vice Chancellor, SVSU, Meerut



Prof. (Dr.) Shalya Raj
Chief Executive Officer, SVSU, Meerut

EXPERTS & ORGANIZING TEAM

| | | | | |
|---|---|---|--|--|
|  |  |  |  |  |
| Expert Prof. R. P. Pathak Former Dean & Senior Professor, School of Education, Shri Lal Bahadur Shastri National Sanskrit University, New Delhi | Expert Prof. Manoj Kumar Dean Academics, AISECT University, Jharkhand & General Secretary, Forum for Interdisciplinary Research Methods | Expert Prof. S.C. Pachouri Dean, Motherhood University, Roorkee | Expert Prof. R.K. Ghai Chairman-UFDC, Dean & Director, Faculty of Management & Commerce, SVSU, Meerut | Expert Dr. Sanjay Kumar Principal Saraswati College of Professional Studies, Ghaziabad, & President CTPD India |
|  |  |  |  |  |
| CHAIRMAN Prof. Sandeep Kumar, Dean-Faculty of Education, SVSU, Meerut. | CONVENER Prof. Anoj Raj, Head, Department of Education, FOE, SVSU, Meerut | CO-CONVENER Prof. Indira Singh Department of Education, FOE, SVSU, Meerut | ORGANIZING SECRETARY Dr. Mumtaz Sheikh, Associate Prof., Department of Education, FOE, SVSU, Meerut | JOINT ORGANIZING SECRETARY Dr. Roopam Jain, Assistant Prof., Department of Education, FOE, SVSU, Meerut |

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OFFICE OF THE VICE-CHANCELLOR
Maj Gen (Dr) G.K. Thapliyal, SM(Retd.)
MIS, FIDOMS
Vice-Chancellor



No.U-04/SVSU/2024/564
Dated:14.11.2024



Message

It is a matter of great pleasure that **Department of Education, Faculty of Education, Swami Vivekanand Subharti University, Meerut, India** is organizing a National Conference on “**Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation**” in collaboration with **Council for Teachers Professional Development (CTPD), India & University Faculty Development Cell (UFDC), SVSU, Meerut** on 20th & 21st November, 2024.

The theme for this national conference has been judiciously selected and has tremendous significance in the present scenario. The subthemes have also been thoughtfully framed and will provide in depth knowledge to all the stakeholders in all the concerned domains.

I take this opportunity to welcome all the highly knowledgeable and esteemed experts in this conference who are joining us from various parts of the Country.

This initiative will bring to light many issues related to revival of Indian Knowledge System as well as project its alignment with Sustainable Development Goals, which is the need of the hour. The evaluation of this alignment is also highly significant for reflecting on association of both these important concepts.

The exposure of students, research scholars, faculty members and other participating intelligentsia to this conference will immensely prove beneficial to them.

I congratulate and thank to Dr. Anoj Raj, Organizing Chairperson, Department of Education and his team for conceiving the theme and taking initiative to organize the conference.

I extend my warm greetings to all the participants and convey my best wishes for the grand success of the conference.

JAI HIND!

**Maj Gen (Dr.) G. K. Thapliyal
Vice- Chancellor**

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**Shri Lal Bahadur Shastri National Sanskrit University
(Central University)**

B-4, Qutub Institutional Area, New Delhi-110016 (INDIA)



Prof. R. P. Pathak

Former Dean & Senior Professor, School of
Education, Shri Lal Bahadur Shastri National
Sanskrit University, New Delhi

MESSAGE

I am happy to know that Department of Education, FoE, Swami Vivekanand Subharti University, Meerut (U.P.) is organizing two-days National Conference on the theme-“Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation” on November 20-21, 2024.

On this occasion, the Department is publishing a Souvenir, I am sure that this Conference will inspire new generations to explore and contribute to the Indian Knowledge System and nurture deep understanding of our cultural morals, values and sustainable development. Surely, this conference represents a significant step towards promoting India’s rich intellectual legacy.

I extend my warm greetings and felicitations to the organizers, speakers, participants of this conference and also students, staff and faculty members of Department of Education of Swami Vivekanand Subharti University, Meerut on this occasion.

Best Wishes for a productive, engaging and transformative experience.

Prof. R.P. Pathak

Senior Professor

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Message



Prof. (Dr.) R. K. Ghai

Dean & Director- Faculty of Management &
Commerce

Chairman- University Faculty Development Cell
Swami Vivekanand Subharti University, Meerut

Jai Hind!

It gives me immense pleasure to learn that the Department of Education, Faculty of Education in, Swami Vivekanand Subharti University, Meerut in collaboration with Council for Teachers Professional Development, India & University Faculty Development Cell, SVSU, Meerut is organizing a National Conference on "Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation" on 20th & 21st November, 2024.

The National Education Policy- 2020 has opened up new vistas in the contemporary education. The well carved theme of the National Conference focuses on Indian Knowledge System & Sustainable Development Goals. An educational institute stands for imparting quality education through dedicated teachers and refurbishing their academic knowledge by organizing such seminar, conference & workshop etc.

I congratulate the Dean-FOE, HOD- Education & organizing team for organizing this National Conference. I wish the team great success & hope the deliberation will have a positive outcome.

Prof. (Dr.) R. K. Ghai
**Dean & Director- Faculty of Management &
Commerce**

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Dr. Sanjay Kumar
Principal
Saraswati College of Professional Studies,
Ghaziabad, & President CTPD India

Message for the Souvenir

It gives me immense pleasure to extend my warm regards to all participants, speakers, and organizers of the National Conference on "**Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation**" hosted by the Department of Education, Faculty of Education, Swami Vivekanand Subharti University, Meerut. This conference is a remarkable initiative to bring together scholars, researchers, and practitioners to delve into the profound wisdom of Indian Knowledge Systems and their alignment with Sustainable Development Goals.

Indian Knowledge Systems, rooted in ancient traditions and practices, offer invaluable insights into sustainable living, environmental harmony, and societal well-being. In the context of contemporary challenges, integrating this traditional wisdom with modern approaches is crucial to achieving global sustainability. The sub-themes of this conference, ranging from environmental conservation to gender equality, human development, and innovations, resonate deeply with the vision of creating a balanced and inclusive future.

The dedication of the organizing committee, under the guidance of esteemed patrons and experts, in creating this platform for intellectual exchange is truly commendable. I am confident that the deliberations during the conference will lead to transformative ideas and actionable solutions that bridge the gap between tradition and innovation.

I extend my heartfelt gratitude to all contributors who have shared their valuable research and perspectives. May this souvenir serve as a testament to the collective commitment of the academic community towards fostering sustainable development through the lens of Indian Knowledge Systems.

Wishing the conference grand success and enduring impact.

Warm regards,

Dr. Sanjay Kumar

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Faculty of
Education
(Estd. 2008)



Prof. (Dr.) Sandeep Kumar
Dean-Faculty of Education &
Head- Department of Physical Education

Subhartipuram, NH-58,
Delhi-Haridwar Bypass Road, Meerut-
250005; www.subharti.org

MESSAGE

It is with great pride and enthusiasm that I extend my warmest greetings to all participants of the National Conference on the theme “**Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation**” and congratulate the entire organizing team of the Department of Education, Faculty of Education, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India for hosting a National Seminar on a cutting-edge topic of present scenario under the supervision of **Prof. (Dr.) Anoj Raj**, Head, Department of Education, Faculty of Education. At the heart of this ambitious undertaking lies the visionary mind of the organizing secretary of the National Conference **Dr. Mumtaz Sheikh** whose insight & tireless efforts have propelled this project forward. It is fitting that her role as the organizing secretary of conference perfectly aligns with her unwavering commitment to shaping the future of Education. The title of Conference stands as a true embodiment of the multidimensional nature of education, research and development. The commitment of Organizing Team to advancing the field of education is truly commendable, and their work serves as an invaluable resource for educators, researchers, policymakers and all those with a vested interest in shaping the future of learning. May, it inspire us all to continue our journey of exploration, innovation, and transformative change in the realm of education.

With Best Wishes for its Success!

Date: November, 18, 2024

Prof. (Dr.) Sandeep Kumar
Dean- Education
CONFERENCE CHAIRMAN

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Faculty of Education
Department of
Education



Dr. Anoj Raj,
Professor & Head, Department of Education,
Faculty of Education, SVSU, Meerut, UP.
Mob. No.: 9897885624

Subhartipuram, NH-58,
Delhi-Haridwar Bypass Road, Meerut-250005;
www.subharti.org

Date: 18/11/2024

MESSAGE

I as the Conference-Convener and Head, Department of Education, Faculty of Education, Swami Vivekanand Subharti University, Meerut, India feels extremely delighted that the much awaited National Conference being organized on the theme- **“Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation”** is finally seeing the light of the day. Department of Education, Faculty of Education, Swami Vivekanand Subharti University, Meerut, India expresses deep-felt gratitude to the highly accomplished and experienced experts as well as all the participants who are joining this platform of national seminar.

The theme has been judiciously selected to throw light on the various aspects of the Indian Knowledge System which will not only highlight its past glory but also bring forth its relevance in the present scenario. The Sustainable Development Goals are playing very crucial role in alleviating the situations at global level in various dimensions concerned with human life.

The deliberations in this conference will result in emergence of various facts and insights pertaining to this theme.

I am sure the contributions of the galaxy of experts in this national conference will prove effective in the attainment of its lofty objectives to create a society engrained with morals and principles as well as propel it in the direction of further human development.

I highly appreciate the intense and sincere effort of all the members of the organizing committee who had been working relentlessly to ensure the success of this event.

Prof. (Dr.) Anoj Raj

CONFERENCE- CONVENER

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Prof. (Dr.) Indira Singh
Department of Education
FoE, SVSU, Meerut

MESSAGE

It is with great pleasure and enthusiasm that Department of Education, Faculty of Education Swami Vivekanand Subharti University Meerut organised a Two days National Conference on **Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation** in Collaboration with Council for Teachers Professional Development (CTPD), India & University Faculty Development Cell (UFDC), SVSU, Meerut

We are indeed indebted to our guest of Honour, Hon'ble Vice Chancellor of Swami Vivekanand Subharti University for gracing this occasion. His support and guidance had boosted up and gave inspiration. I would like to thank Prof. Sandeep Kumar Dean of Faculty of Education, SVSU, his guidance and moral support made this National Conference successful

Prof. Anoj Raj, Head, Department of Education, FOE, SVSU also guided and supported to complete the conference successfully. Without his help and support we could not conduct this National Conference successfully. Sir had been always with us all the time. We are indeed privileged to have distinguished guests and eminent scholars from various parts of Uttar Pradesh with us. I show my gratitude and thanks to the chief guest of the Seminar Prof. R. P. Pathak, Former Dean & Senior Professor, School of Education, Shri Lal Bahadur Shastri National Sanskrit University (A Central University). New Delhi; Expert- Prof. Manoj Kumar, Dean-Academics, AISECT University, Jharkhand; Expert-Prof. R.K. Ghai, Chairman-UFDC, Dean & Director, Faculty of Management & Commerce, SVSU, Meerut; Expert Dr.Sanjay Kumar, President, Council for Teachers Professional Development (CTPD), India and Dr.S.C. Pachouri, Dean, Faculty of Education, Motherhood University Rookee.

The expertise and knowledge provided by various participants of this conference would enlighten us with the significance of today's topic **Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation**.

Thank you everyone for being with us today and making this conference successful.

Dr. Indira Singh
CO CONVENER

ORGANIZING SECRETARY



Dr. Mumtaz Sheikh

Associate Professor

Department of Education

FoE, SVSU, Meerut, U.P

MESSAGE

It is a matter of great pleasure to have the opportunity of being the member of the organizing committee for the national conference being organized on the theme- **“Indian Knowledge System in Context of Sustainable Development Goals: Alignment and Evaluation”** on a large scale. The duration of preparation of this conference had been very hectic and I am glad that finally the time has come when it will see the light of the day. I am thankful to the higher authorities for their cooperation and to the participants for their active participation. We are indeed privileged to have the distinguished guests and eminent scholars from all over the country.

I am indeed indebted to the all the dignitaries and experts who have associated with us in this conference and immensely contributed in the direction of its success.

I pray to Almighty God for the success of this conference.

This confrence will prove beneficial for rejuvenating the Indian Education System through the resolutions emerging out of it.

Dr. Mumtaz Sheikh

JOINT ORGANIZING SECRETARY



Dr. Roopam Jain
Assistant Professor
Department of Education,
SVSU, Meerut, U.P.

MESSAGE

It is my privilege to welcome esteemed scholars, educators, and participants to this National Conference on the Indian Knowledge System. This initiative is not just an academic endeavor but a celebration of the profound intellectual heritage that has shaped the ethos of our nation for millennia.

The Indian Knowledge System, encompassing philosophy, science, arts, and spirituality, offers timeless insights into sustainable living, holistic wellness, and universal harmony. As we face the challenges of the modern era, this wisdom holds the potential to address pressing global issues and inspire innovative solutions.

This conference aims to create a vibrant platform for dialogue, encouraging the exploration and integration of this knowledge into contemporary contexts. We hope to bridge the past with the future, fostering a deeper understanding of the contributions of Indian thought to global civilization.

I extend my heartfelt gratitude to our distinguished guests, keynote speakers, and participants for their commitment to enriching this academic discourse. May this event inspire us to rediscover and celebrate the treasures of our heritage while paving the way for a brighter future.

Dr. Roopam Jain

Technological Advancements and Innovations in Reference to Indian Knowledge Systems (IKS) and Sustainable Development

Dr. Sanjay Kumar
Principal

Saraswati College of Professional Studies, Ghaziabad, & President CTPD India

The intersection of technological advancements and innovations with Indian Knowledge Systems (IKS) offers immense potential for addressing the challenges of sustainable development. Indian Knowledge Systems, deeply rooted in ancient practices and wisdom, emphasize harmony with nature, sustainable resource management, and the well-being of humanity. Integrating this traditional wisdom with modern technological innovations can create sustainable solutions for global challenges such as climate change, resource depletion, and social inequities.

Understanding Indian Knowledge Systems and Sustainable Development

Indian Knowledge Systems are an amalgamation of diverse disciplines, including Ayurveda, Yoga, architecture (Vastu Shastra), astronomy (Jyotisha), and environmental management, which have evolved over millennia. These systems promote sustainable living practices and offer holistic solutions to modern problems. The concept of sustainable development, as outlined by the United Nations Sustainable Development Goals (SDGs), aims to balance economic growth, social inclusion, and environmental sustainability. The principles of IKS align seamlessly with these goals, emphasizing ecological harmony, resource conservation, and societal well-being.

Technological Advancements Bridging Ancient Wisdom and Modern Needs

Modern technology has revolutionized the way knowledge is accessed, shared, and applied. The integration of IKS with technological advancements has enabled the revival and adaptation of ancient practices to address contemporary challenges. Several areas demonstrate how technology is enhancing the relevance and applicability of IKS in achieving sustainable development:

1. Digital Documentation and Preservation of IKS

- **Technological Innovation:** Digitization and artificial intelligence (AI) are being used to document ancient manuscripts, texts, and oral traditions.
- **Sustainable Development Impact:** Preserving and disseminating this knowledge ensures that traditional practices are not lost to time. For instance, the National Manuscripts Mission in India employs technology to archive ancient texts, making them accessible for research and application.

2. Smart Agriculture and Indigenous Farming Practices

- **Technological Innovation:** Precision agriculture, drones, and IoT-based sensors are helping optimize traditional farming practices.
- **Sustainable Development Impact:** Indian Knowledge Systems emphasize organic and sustainable farming techniques, such as the use of natural fertilizers and crop rotation. Integrating these practices with technology improves productivity while reducing the environmental footprint.

3. Renewable Energy Solutions Inspired by Ancient Practices

- **Technological Innovation:** Solar, wind, and biomass energy solutions are inspired by traditional energy conservation practices.

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- **Sustainable Development Impact:** Ancient Indian practices, such as using biogas for energy needs, have been modernized to create efficient renewable energy solutions. Solar cookers, inspired by ancient methods of harnessing sunlight, are widely used today.

4. Healthcare Innovations Based on Ayurveda

- **Technological Innovation:** Biotechnology and AI are advancing the formulation and application of Ayurvedic medicines.
- **Sustainable Development Impact:** Ayurveda's emphasis on holistic health and natural remedies aligns with SDG 3 (Good Health and Well-being). Startups like NirogStreet are leveraging technology to bring Ayurveda into the mainstream through telemedicine and AI-based diagnosis.

5. Water Management and Conservation Technologies

- **Technological Innovation:** GIS mapping and AI are being employed for water conservation.
- **Sustainable Development Impact:** Traditional Indian water conservation techniques, such as stepwells (Baolis) and rainwater harvesting, have inspired modern water management systems. Technologies like smart sensors are enhancing these practices to ensure water sustainability.

Innovations Inspired by IKS

Innovation is key to adapting IKS for modern challenges. Many innovative practices and technologies have their roots in Indian traditions and are being scaled up for global applications.

1. Biomimicry in Architecture

- Drawing from Vastu Shastra, modern architects use biomimicry and sustainable materials to design energy-efficient buildings. For instance, the passive cooling techniques of ancient Indian architecture inspire sustainable urban housing projects today.

2. Natural Resource Management

- Ancient Indian practices, such as sacred groves (forests protected by cultural traditions), are being revisited through technology. AI-driven models now help map and protect biodiversity hotspots, contributing to SDG 15 (Life on Land).

3. Climate-Resilient Crops

- Traditional Indian crops like millets, which are drought-resistant, are being promoted through genetic engineering and smart farming tools to address climate challenges. This aligns with SDG 2 (Zero Hunger).

4. Yoga and Mental Health Technologies

- With the rise of mental health challenges globally, Yoga and meditation, deeply embedded in IKS, are being integrated into wellness technologies. Apps like Calm and Headspace incorporate principles of Yoga Nidra for stress relief and mindfulness.

Challenges in Integrating IKS with Technology

While the integration of technology with IKS holds immense potential, several challenges need to be addressed:

- 1. Lack of Awareness:** Many traditional practices are undervalued or forgotten due to a lack of awareness.

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2. **Standardization Issues:** Standardizing IKS-based solutions for global application requires rigorous scientific validation.
3. **Resource Constraints:** Implementing technologically enabled solutions based on IKS often faces funding and resource allocation challenges.
4. **Resistance to Change:** Communities that rely on traditional practices may resist the introduction of technology due to cultural or economic reasons.

Policy and Institutional Support

Governments and institutions play a critical role in promoting the integration of IKS and technology. Policies such as the National Education Policy (NEP) 2020 emphasize the inclusion of Indian Knowledge Systems in curricula, fostering awareness and innovation. Institutions like the Ministry of AYUSH and the National Innovation Foundation are instrumental in supporting research and entrepreneurship in this domain.

Case Studies: Successful Integration of IKS and Technology

1. **Sustainable Cities: Jaipur Foot**
 - Jaipur Foot, a prosthetic limb, combines traditional craftsmanship with modern technology, providing an affordable solution for the disabled. This initiative exemplifies the potential of fusing traditional knowledge with innovation to achieve SDG 10 (Reduced Inequalities).
2. **Eco-Tourism in Kerala**
 - Kerala's eco-tourism initiatives integrate traditional Ayurvedic practices and sustainable hospitality, driven by technology for resource management and global reach.
3. **Traditional Medicines in Biotechnology**
 - The collaboration between the Council of Scientific and Industrial Research (CSIR) and the Ministry of AYUSH has resulted in scientifically validated herbal medicines that address global health challenges.

Future Directions: Scaling the Confluence of Technology and IKS

1. **Research and Development:** Increased funding and interdisciplinary research can lead to new discoveries that blend ancient wisdom with technology.
2. **Capacity Building:** Training programs for rural and urban communities can ensure wider adoption of sustainable practices enabled by technology.
3. **Global Collaboration:** Sharing IKS-inspired technological solutions globally can position India as a leader in sustainable innovation.
4. **Digital Platforms:** Developing digital platforms to educate and engage people on the benefits of integrating IKS and technology can drive widespread change.

Conclusion

Technological advancements and innovations provide a powerful means to revitalize and adapt Indian Knowledge Systems for addressing the pressing challenges of sustainable development. By bridging ancient wisdom and modern solutions, a new paradigm of development that is sustainable, inclusive, and equitable can be realized. As

the world seeks answers to ecological, social, and economic crises, the synergy between IKS and technology offers a beacon of hope, emphasizing that progress need not come at the expense of our planet and heritage.

Government Initiatives for Sustainable Development Goals

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Abstract:

By 2030, the United Nations' Sustainable Development Goals aim to achieve the highest possible level of global prosperity. Its 17 goals include every significant facet of human growth, from poverty to collaboration toward the objective. Through social, economic, and environmental sustainability, it has integrated all the crucial elements, which will propel human progress to its pinnacle.

Since the Vedic era, the Indian Knowledge System has served as a lighthouse for Indian society, both historically and currently. The wealth of information contained in the Indian Knowledge System might serve to remind us of India's illustrious past and to deepen our awareness of its historic legacy. From astronomy, physics, mathematics, town planning, medicine, literature, grammar, philosophy, warfare technology, yoga, fine arts, etc., it has impacted every significant area of progress.

Because human progress and development are the goals of both the UN Sustainable Development Goals and the Indian Knowledge System, it will be of great interest to investigate how these goals reflect each other. Exploring this intriguing topic will give a glimpse of the genius of Indian intelligence and how it is developing in the future.

Keywords: United Nations' Sustainable Development Goals, Indian Knowledge System,

Indian Knowledge System and Innovations for Enhancing Human Development

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Abstract

Education is continuous process it goes on through out the life of a person. First school of a person is home, then he learns from peer group then comes there after school, college so forth and so on. People keep on learning formally, informally, directly, indirectly even when the formal education comes to an end. Even during the hours of formal schooling the students learn much outside the school which does not constitute a part of the planned curriculum. The student gains a great deal of education from the outer world, that is from Radio, television, internet, market place, religious places, public places etc which deduces that education in India is provided by public sector as well as private sector. The Nalanda University is the oldest University system of education in the world whereas Western education mingled into Indian society with the establishment of the British rule. Philosophy is the study of general and fundamental problems concerning matters such as existence, knowledge, values and language. Philosophy is a deep and comprehensive subject. It helps us to understand the importance of all human experiences and activities. Hence the area of philosophy is very vast. It can be broadly divided into metaphysics, epistemology and axiology. Philosophy is way of life, in a wider sense philosophy is a way of looking at life Nature and truth. Education on the other hand is the dynamic side of philosophy. It is the active aspect and the practical means of realising the ideals of the life from biological and sociological point of view

Keywords: Philosophy, Metaphysics, Epistemology, Axiology.

EDUCATION FOR ECONOMIC GROWTH

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ABSTRACT

Education plays a major role in the economic development of any country, may it be developed or developing. Many resources play a part in the growth of a country's economy one of which and perhaps the most important is human capital, which means the workforce of the country. A good and productive workforce by making use of other resources can lead an economy in to growth and prosperity.

One of the major factors in developing this resource i.e. human capital is education. Therefore education is one of the most important factors that lead a country to sustained economic growth. Education has therefore become a very important part of every government policy. Much effort has been done with respect to education in many developing countries including Pakistan. Many studies have been conducted in the past to examine the relationship between education and the economic development of a country. The following is a chronically review of some of the important work done in the past.

In the year 1998 Zafar Iqbal and Ghulam Mustafa Zahid from the `Pakistan development review` worked on the "Macroeconomic determinants of economic growth in Pakistan". The study examines the effects of some of the most important micro economic variables like education, physical growth and budget deficit on Pakistan's economic growth. The period of 1959-60 and 1996-1997 has been examined using a multiple regression framework. The quantitative evidence proves primary education and the openness of the economy to be important factors for accelerating growth. But on the other hand budget deficit is negatively related to output and growth. The study also shows that relying on domestic resources for finance is our best shot as external debt is also negatively related to growth. The study focuses on coming up with long run economic growth-oriented policies in order to sustain economic growth.

Keywords- Education, Economic growth, Sustained, Macroeconomics

EDUCATION FOR ECONOMIC GROWTH

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ABSTRACT:

Education for economic growth. There are two terms economic growth and economic development both sound similar to each other but there is difference between them. Economic growth can be referred to as the increase that is witnessed in the monetary value of all the goods and services produced in the economy during a time period. It is a quantitative measure. It is narrow concept. It measures by using COP&GNP. Economic development refers to the process by which the overall health, well-being and academic level of the general population of nation improves. It also refers to the improved production value due to advancement of technology. It is qualitative Improvement in the life of the citizens of a country and is most appropriately determined by the HDI. And the key factor of measuring human developmental index is education.

Education and economic development are closely inter-related. Education is a crucial factor in the economic development of any country A well-educated population is vital for economic growth, productivity and competitiveness in global Economy. Education plays a crucial role in preparing individuals for the workforce, enhancing their skills and enabling them to adapt now technologies and industries

Education for sustainable development is the key to success at all levels and provide knowledge, skills, values and attitudes for learners of all ages to solve the problem for a better sustainable future. Education makes us aware and by active participation we can make the earth a better place for now and for future. Through education we can collaborate on bigger scale. As the lead UN agency on ESD, UNESCO is responsible for the coordination of the ESD for 2030 framework.

Keywords: Economic Growth, Economic Development, Human Developmental Index, Sustainable Development

GENDER EQUALITY IN EDUCATION AND SUSTAINABLE DEVELOPMENT

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Abstract:

Gender equality provides you an opportunity whether you are female, male, and transgender in the field of education, job opportunities, society. Gender equality is our constitutional right, nobody can take away that from you. Gender equality not only gives you your rights but it is also very useful for the social welfare as well as for the development of our society. And if we talk about sustainable development, it is a way of using the resources that we got from the nature in a certain way, so that our upcoming generation can also use those resources properly. Gender equality is not just about social justice, it also helps in the sustainable development, because we know how much women contribute to the economic growth of our country. Women of our country work equally with men and their contribution is visible in every field. If we see, today's women are many steps ahead of men and they have been able to reach very high positions.

Key words: Gender equality, Constitutional, Resources, Contribution and Sustainable Development

Indian Knowledge System for the Conservation and Protection of the Environment

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Abstract:

India has a rich tradition of intellectual inquiry and a textual heritage that goes back to several hundreds of years. India was magnificently advanced in knowledge traditions and practices during the ancient and medieval times. The intellectual achievements of Indian thought are found across several fields of study in ancient Indian texts ranging from the Vedas and the Upanishads to a whole range of scriptural, philosophical, scientific, technical and artistic sources.

In many parts of India, communities have inherited the rich tradition of love and reverence for nature through ages. Religious preaching, traditions and customs have played a big role in this regard: Indian religions have generally been the advocates of environmentalism. They campaigned for such guidelines to the commoners that ensured an intimate contact and sense of belonging in nature. It came in the form of directives to the believers to perform certain rites and rituals, so that it became a way of their life. Sometimes the messages of environmental protection and conservation are in a veiled form. Today, when the world is undergoing a serious crisis of ecological imbalance and environmental degradation, it is all the more important for us to understand such traditions.

Keywords: India, Tradition, Environment

Health and wellbeing for Sustainable Development in Indian Knowledge System

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Abstract:

This study addresses the importance of health and well-being as key components of sustainable development via the lens of the Indian Knowledge System (IKS). IKS offers a holistic approach to health that emphasises mitigation, balance, and harmony with nature, relying on ancient writings and traditional practices such as Ayurveda, yoga, and Siddha. This viewpoint supports physical, mental, and spiritual well-being, which is consistent with contemporary sustainability objectives. There are so many practices to save sustainable development like as fasting, plantation, living in joint family, food processes, meditation and many more that we will discuss in the paper. IKS provide the methods for achieving health in terms of holistic that are linked to today's concern such as Swasthya and Prakriti which means complete health and natural temperament respectively. This paper delves into those practices which serves to fulfil the sustainable development goal of United Nation (UN) specially on people's good health and well-being by enhancing wellness prevention and environmental responsibility. Furthermore, the study examines difficulties to incorporating IKS into mainstream healthcare, such as societal and regulatory issues, while showing successful case studies in which IKS has been used sustainably in modern settings. By examining the relevance of IKS in today's health practices and sustainable policies, this paper highlights the potential for traditional Indian health systems to contribute to global health and sustainability efforts.

Keywords: Indian Knowledge System (IKS), Sustainable Development Goals (SDGs),

Sustainable Development: Impact of Vocational Education and Skills Development

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Abstract

In the National Education Policy - 2020, a lot of emphasis has been laid on vocational education, in which students will be given vocational education during basic education itself, which will be very beneficial for the students in skill development. This will positively improve the economic and social status of the students. At present, it is necessary to increase employment opportunities to solve unemployment, in which vocational education and skill development have an important role. Change in education is essential for sustainable development and the recommendations and suggestions of National Education Policy-2020 are very effective for sustainable development, in which one issue is also related to vocational education and skill development.

“Education is most powerful weapon which you can use to change the world “- Nelson Madela

All student’s enrolment in vocational education is an important goal of the National Education Policy -2020, through which skill development training will be provided to the students and they will benefit in their employment. Under vocational education, students will be taught lok vidya from primary classes itself. Lok Vidya means small and cottage industries related to the social environment. Students will be given knowledge of all the vocational arts related to their society and will be skilled in the areas of their interest so that they can start their own business. This article is based on the business impact on

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vocational skills in the context of National Education Policy 2020. Descriptive method will be used in this paper. Points related to vocational education and vocational skills will be highlighted under the National Education Policy -2020.

Keywords: Vocational Education, Skills Development, NEP-2020

प्राचीन ज्ञान परंपरा में पर्यावरण चेतना

डॉ. सोनम शर्मा

विभागाध्यक्षा, शिक्षाशास्त्र विभाग

कु.मायावती राजकीय महिला स्ना.महाविद्यालय

बादलपुर, गौतमबुद्ध नगर

सार:

प्राचीन भारतीय ज्ञान परंपरा में प्रकृति को सर्वश्रेष्ठ माना गया है। प्राचीन ज्ञान परंपरा में प्रकृति के साथ समन्वय और शांति स्थापित करना मनुष्य का कार्य था प्रकृति के द्वारा ही इस पूरे संसार में जीव, जंतु, मनुष्य का जीवन संभव है। प्राचीन समय में वृक्षों की पूजा अर्चना भी इसी उद्देश्य से की जाती थी। वायु को वरुण देव के रूप में पूजा जाता था। एक पेड़ को 10 पुत्रों के समान माना जाता था। भारतीय ज्ञान परंपरा में पर्यावरण संरक्षण करना हर मनुष्य का कर्तव्य माना जाता था। प्राचीन ग्रंथों में पर्यावरण के घटक जैसे वायु, आकाश, अग्नि, भूमि वनस्पति आदि के मंत्र और स्तुति गान दिए गए हैं। संस्कृति और धर्म परंपरा का विकास पर्यावरण चेतना का ही प्रमाण है। पृथ्वी को भी माता कहकर उसकी पूजा की गई है। इस शोध पत्र में प्राचीन ज्ञान परंपरा में पर्यावरण चेतना पर प्रकाश डाला जाएगा।

भारतीय तटरेखा का अध्याय

नरेंद्र

शोधार्थी, डिफेन्स एंड स्ट्रेटेजिक स्टडीज विभाग,सनराइज विश्वविधालय ,अलवर
डॉ. संजीव प्रताप सिंह चौहान

सार:

तटीय सीमाओं का प्रबंधन पूरी तरह से एक अलग पैमाने की समस्या है। मुंबई आतंकवादी हमलों ने तटीय निगरानी को मजबूत करने की आवश्यकता को महसूस कराया है। तटरक्षक बल प्रादेशिक समुद्र में गश्त करते हैं जबकि नौसेना उच्च समुद्र में काम करती है। समुद्री मार्गों का उपयोग लोगों, हथियारों, नशीली दवाओं और अन्य प्रतिबंधित वस्तुओं की तस्करी के लिए किया जाता है। हालांकि भारत ने समुद्री तटों की निगरानी में सुधार करने में कुछ प्रगति की है, लेकिन कुल सफलता हासिल करना अभी मुश्किल है। बड़ी सीमाओं के प्रबंधन में प्रौद्योगिकी का उपयोग अनिवार्य हो जाता है, चाहे वह भूमि पर हो या समुद्र या नदियों पर; विशेष रूप से जीपीएस में, उपग्रह निगरानी महत्वपूर्ण हो जाती है। लाखों नावें और जहाज भारतीय समुद्रों से होकर गुजरते हैं। उनकी निगरानी के लिए प्रौद्योगिकी के उपयोग के आधार पर एक समन्वित दृष्टिकोण की आवश्यकता है। भारतीय नौसेना ने समुद्री क्षेत्र के प्रति जागरूकता पैदा करने के लिए व्हाइट शिपिंग और तटीय निगरानी रडार के लिए एक संलयन केंद्र स्थापित किया है। सरकार तटीय सुरक्षा से निपटने के लिए एक समुद्री आयोग गठित करने पर विचार कर रही है। इससे समस्या पर आवश्यक ध्यान देने में मदद मिलेगी, उसके समन्वय में सुधार होगा और विभिन्न परियोजनाओं की निगरानी में मदद मिलेगी। इसके साथ ही, तटीय पुलिस को मजबूत करने की जरूरत है। द्वीप क्षेत्रों की समस्याओं पर विशेष ध्यान देने और दृष्टिकोण की आवश्यकता है। अंडमान और निकोबार

द्वीप समूह अत्यधिक रणनीतिक क्षेत्र होने के साथ-साथ पारिस्थितिकी रूप से नाजुक भी हैं। हमें इन द्वीपों के विकास के लिए विशेष नीतियों की आवश्यकता है। लक्षद्वीप द्वीप समूह के बारे में भी यही कहा जा सकता है। दक्षिण एशिया दुनिया का सबसे कम एकीकृत क्षेत्र है। यह दुर्भाग्यपूर्ण है क्योंकि इस क्षेत्र के लोगों के बीच स्वाभाविक समानताएं हैं।

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National Conference
-INDIAN KNOWLEDGE SYSTEM IN CONTEXT OF SUSTAINABLE
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3. Gender Equality in Education and Sustainable Development
4. Indian Knowledge System and Innovations for enhancing Human Development
5. Indian Knowledge System for Peace and Justice at Global Level
6. Ancient Indian Education for Quality Life
7. Process of Teaching Learning and Sustainable Development Goals
8. Indian Science and Sustainable Development Goals
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