LEVERAGING ICT FOR EFFECTIVE IMPLEMENTATION OF NEP 2020 IN LIS

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Abstracts :

LIS professional can play significant role in selecting organizing and providing access to digital resources. Libraries play a vital role in creating and maintaining these digital repositories ,training user and integrating new technologies LIS Professionals can play significant role in selecting , organizing and providing access to digital resources Digital sustainability that is flexible with an emphasis on interoperability, continued incorporates activities in the present that will facilitate access and availability in the future..The present paper highlights. Leveraging ICT For effective implementation of NEP 2020 in LIS .

Keywords : NEP 2020, ICT, Digital Library.

DIGITAL INFRASTRUCTURE :

Digital Infrastructure developing Upgradation of existing facilities Integration of ICT adequate power supply, Internet connectivity laboratory facilities computer, projections And scanners along with necessary Software.

- Create E -Content
- Manage digital collection or repositories e-book e-journal
- Promote Digital Digital Literacy
- Incorporate new Technologies

Introduction :

The national education Policy (NEP) 2020 is built on the five foundation of pillars OF access, Equity, Quality, Affordability and accountability these principles provides create holistic flexible and multidisciplinary education system .

Information technology has changed the today's environment of libraries in a big way with the current thrust on digital information. With the development of digital information and a knowledge society, libraries are changing their role from document provider to information provider. The need of the hour is to provide authentic information in split second. Internet explosion paves the way for the same. The impact of information technology has led to a paperless society, digital libraries and virtual libraries.

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Digital technology has been making such an impact on different sectors of human activity which leads the present period as paperless society. Its impact on libraries and their services is no less. The theme matter is being disintegrated into eight parts.

It is significant to note that the shift from traditional libraries to the digital is not merely a technological evolution, but requires a change in the paradigm by which people access and interact with information.

NEP 2020 :

Salient Features :

1. Institutional   Restructuring and consolidation
2. Effective Governance and leadership in higher education
3. Multidisciplinary and holistic education
4. optimal learning environment
5. Equity and in higher education
6. Motivated , Energized and capable

NEP 2020 And ICT :

NEP 2020 emphasizes :

• Holistic, multidisciplinary education
• Digital literacy and equitable access
• Integration of technology in teaching, learning, and administration

In the context of LIS, this translates to transforming libraries into dynamic knowledge hubs that support lifelong learning, research, and digital inclusion.

🖥️ **Role of ICT in Enhancing LIS under NEP 2020 :**

1. Digital Infrastructure Development :

• Establishment of digital libraries accessible across institutions

• Integration with platforms like DIKSHA, SWAYAM, and National Digital Library of India (NDLI)

2. E-Resources and Content Creation :

• Digitization of books, journals, and archives

• Creation of multilingual and inclusive e-content for diverse learners

3. Smart Library Services :

• Use of AI, machine learning, and blockchain for cataloging, user personalization, and secure access

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- Implementation of RFID, cloud-based systems, and mobile apps for seamless library operations

4. Capacity Building and Training :

- Upskilling LIS professionals in digital tools, metadata standards, and e-resource management

- Offering online certification and training programs via MOOCs and EdTech platforms

5. Promoting Digital Literacy :

- Libraries as centers for digital skill development

- Supporting foundational literacy and numeracy through curated digital resources

6. E-Governance and Data Management :

- Streamlining library administration using ICT tools

- Data analytics for usage tracking, resource planning, and policy formulation

🌐 Strategic Implementation Steps :

- Policy Alignment: Updating LIS curricula to reflect NEP 2020 goals
- Collaboration: Partnering with tech providers, academic institutions, and government bodies
- Monitoring & Evaluation: Using ICT to assess impact and improve services
  Future Outlook

With NEP 2020 as a catalyst, ICT integration in LIS will :

- Democratize access to knowledge
- Foster innovation in pedagogy and research
- Position libraries as key players in India's digital education ecosystem

Would you like help drafting a presentation or report on this topic? I can also help you explore specific ICT tools or platforms relevant to your institution.

It involves enhancing digital infrastructure developing digital content and repositories , adapting technologies like AI , training LIS

- Future compatibility: Libraries are long-term institutions with a mandate for preservation, and it is essential that old collections can be presented by future versions of the system. This is a more ambitious requirement than mere extensibility which, although an admirable quality in any design, does not necessarily ensure that future versions can safely interact with current ones.
- Dynamic: Many aspects of the library should be dynamic, for example content, whereby documents and metadata can be added, revised and removed while a

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repository remains on-line, and configuration, where presentational issues can be adjusted and services added at runtime.

- Integrated documentation: Large-scale software systems such as digital libraries benefit immensely from the use of an integrated documentation system.

- Self-describing modules: This goes a stage further than the previous item: modules describe themselves in a machine-readable format so that other modules can interact with them without the need for explicit control. Computer environment integration. A digital library should mesh well into a user's existing computer environment. Full integration makes a digital library become a seamless component of each user's work environment.

- Teacher empowerment, Blended learning

- Improve administration and assessment

- Backwards compatibility: Naturally we wish to retain the existing system's strengths. This is accomplished by ensuring that the new design is backward compatible, which has the added benefit of providing existing developers and users with an easy migration path.

- Levels of customization: To match the different categories of people involved in constructing digital libraries, different levels of customization are required. For instance, a content developer may wish to include source documents in a new format; a collection editor may seek influence over diverse issues of presentation.

- Software modularity: To facilitate development and long-term management of the software, code modularization-a mantra of any software engineering approach-is essential. This is promoted by adopting off-the-shelf technology such as a database system, indexing tools, and page rendering, software; and by the use of standards.

- Service based: Basing a digital library around a set of service is another way to accomplish modularity in this case, modularity of function.

- Distributed architecture: A rich digital library infrastructure can only be supported by a Distributed architecture, and the addition of an open protocol helps to foster interoperability.

- Digital sustainability encompasses a range of issues and concerns that contribute to the longevity of digital information. Unlike traditional, temporary strategies, and more permanent solutions, digital sustainability implies a more active and continuous process.

- Digital sustainability concentrates less on the solution and technology and more on building an infrastructure and approach maintenance and continuous development.

Key Highlights of ICT in NEP 2020 :

Digital Infrastructure & Platforms :

- DIKSHA, SWAYAM, and PMeVidya are central platforms for delivering digital content to students and teachers across India.

- QR codes in textbooks and Self Learning Materials (SLMs) enhance accessibility and

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interactivity.

Teaching & Learning Enhancement :

- ICT tools support blended learning, adaptive assessments, and multilingual content, making education more inclusive and personalized.
- Disruptive technologies like AI, VR, and blockchain are encouraged for pedagogical innovation.

Teacher Training & Professional Development :

- Platforms like DIKSHA offer continuous professional development for educators, integrating ICT into their teaching practices.

Open & Distance Learning (ODL) :

- NEP 2020 promotes ICT in ODL to bridge geographical barriers and provide flexible learning opportunities, especially through NIOS (National Institute of Open Schooling).

Research & Higher Education :

- Higher Education Institutions (HEIs) are encouraged to offer programs in **AI + X** (AI combined with other disciplines) and conduct research on the impact of ICT in education.

Ethics & Data Privacy :

- NEP emphasizes awareness about data protection, ethical use of AI, and digital literacy among students and educators.

Conclusion :

In NEP 2020 LIS professional can play significant role in selecting organizing and providing access to digital resources. Libraries play a vital role in creating and maintaining these digital repositories, training user and integrating new technologies LIS Professionals can play significant role in selecting, organizing and providing access to digital resources.

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