National Seminar
On

Emerging Trends in Information and Knowledge System in Digital Environment (ETIKSDE-2024)

(6th - 7th December, 2024)

Azadi Ka Amrit Mahotsav

– Organized by –
University Central Library
&
Sri Karan Narendra College of Agriculture, Jobner

– In Collaboration with –
Raja Rammohun Roy Library Foundation
Ministry of Culture, Government of India

Seminar Report

The two days National Seminar on **Emerging Trends in Information and Knowledge System in Digital Environment (ETIKSDE 2024)**, scheduled on **6 - 7 December, 2024**, was jointly organized by the University Central Library and Sri Karan Narendra College of Agriculture, Jobner in Collaboration with Raja Rammohun Roy Library Foundation, Ministry of Culture, Government of India at Rajasthan Agriculture Research Institute, Durgapura, Jaipur.

The seminar commenced with an inaugural session on 6 December 2024 morning 10:00 hrs. at Maharana Pratap Auditorium, RARI, Durgapura, Jaipur. The Dais was graced by the Honorable Vice Chancellor, SKNAU, Prof. Balraj Singh as the Chief Guest, Prof. Dinesh Kumar Gupta, Central University of Haryana, as Special Guest, Prof. Sunita Gupta, Director, RARI, Prof. N. K. Gupta, Director Research and Education, SKNAU, Prof. L.R. Yadav, Organizer and University Librarian, SKNAU and Dr. Charat Lal Bairwa, Assistant Librarian & Organizing Secretary, ETIKSDE 2024.

The session officially began with the Lighting of the Lamp ceremony, symbolizing the removal of ignorance and the illumination of knowledge. This tradition was observed by the esteemed dignitaries on the dais. The ceremonial lighting symbolized the significance of libraries in fostering education and research.

The Inaugural Address was presented by Prof. Sunita Gupta welcoming the dignitaries and later presented shawl and memento as a token of honor. This was followed by a brief introduction to the objectives of the seminar, which was to foster latest innovations and challenges in the digital transformation of libraries, with a focus on how libraries can adapt to emerging technologies, digital tools, and new methodologies in information management and dissemination by Dr. Charat Lal Bairwa.

Prof. Dinesh Kumar Gupta, the Special Guest of the event discussed how libraries are adapting to new technologies, including digital archives, e-resources, and online learning platforms, to continue being effective spaces for education and research. He emphasized the evolving role of librarians, the address focused on the need for library professionals to acquire new skills, such as data management, digital preservation, and information retrieval in an increasingly digital environment. He further discussed about NEP 2020 and stated the importance of open source technologies and resources in current scenario. Several challenges were highlighted, including the preservation of digital content, the digital divide, the rising need for cybersecurity in library systems, and the pressure to stay updated with constantly evolving technologies.

In his inaugural address, Prof. Balraj Singh, HVC of SKNAU, highlighted India's rich cultural and historical legacy in the field of libraries. He mentioned that prestigious institutions like Nalanda and Takshila universities housed vast libraries that played a key role in training international scholars in Indian culture. Drawing a comparison, he explained that just as mitochondria serve as the energy source for a cell, libraries act as the energy source for academic institutions. Prof. Singh emphasized the importance of physical libraries over Google searches for effective learning and teaching. He further stated that students who visit libraries and engage with books will undoubtedly benefit more by accessing information from

reliable and knowledgeable sources. He concluded by encouraging the seminar's participants to think critically about how libraries can harness new technologies to meet the needs of future generations, while also preserving traditional library values of open access, equity, and user-centered services.

The inaugural session continued with the insightful keynote Speech from distinguished speaker, Dr. Amit Kumar, Associate Professor., Central University of Gandhinagar, Gujrat. He focused on the emerging trends in library science and highlighted how libraries are innovating their service delivery models by adopting new technologies, such as virtual libraries, mobile apps, and interactive digital tools. The speaker emphasized the importance of user engagement and personalized services in the context of digital transformation.
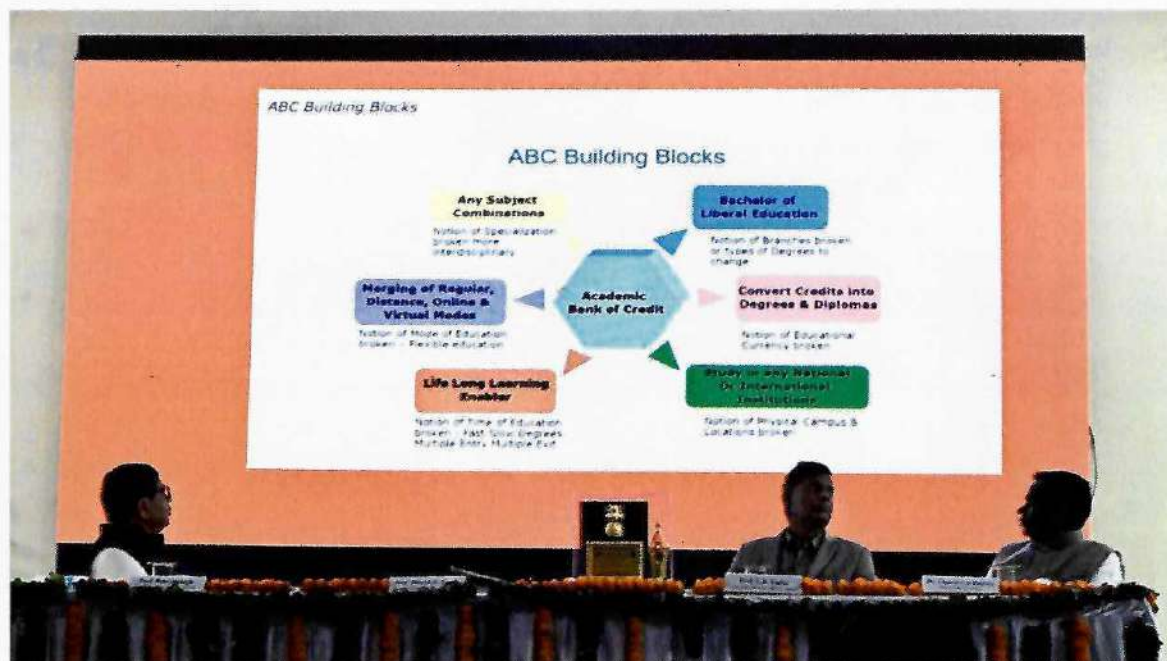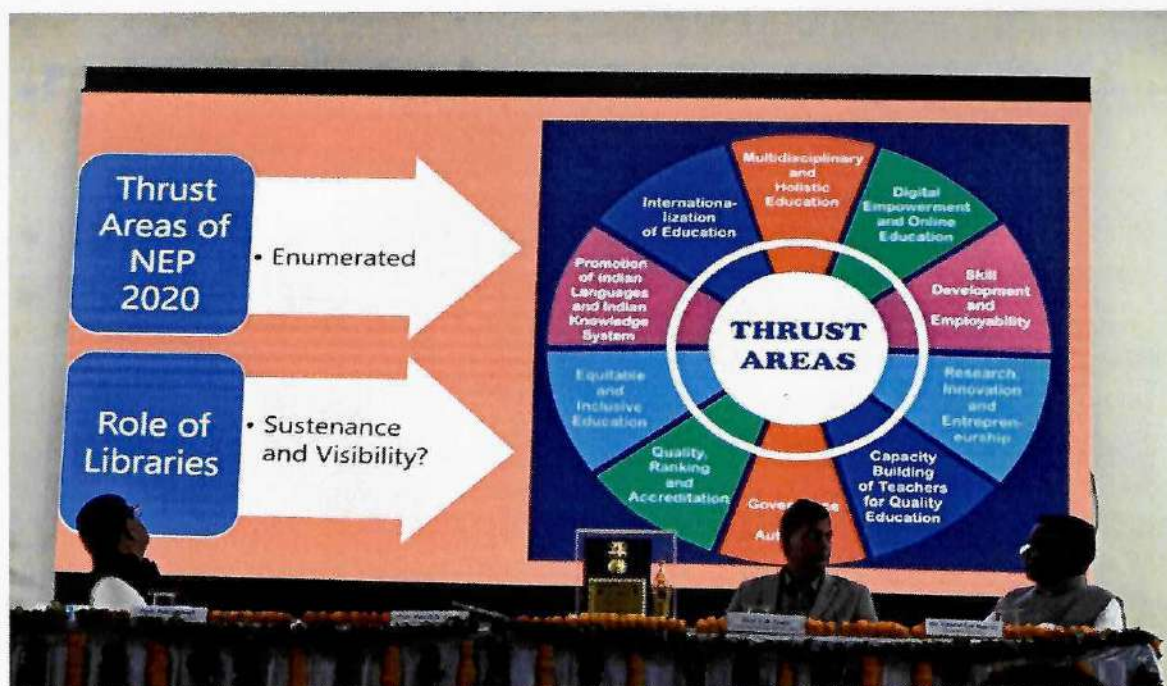
Vote of thanks was proposed by the Organizer and University Librarian, Prof. L.R. Yadav. He expressed sincere thanks to the Hon'ble VC, Prof. Balraj Singh, University Management and each and every person directly or indirectly associated for the invaluable support in the organization of the National Seminar organizing the event. He also highlighted the significance of this national seminar as an essential platform to bridge the gap between traditional library science and the evolving digital landscape. The address underscored the need for more such forums where professionals could come together to exchange ideas, challenges, and best practices. He also reminded the audience of the importance of collaboration among academic institutions, libraries, and technology providers to stay at the forefront of the digital transformation.

The inaugural session was attended by over participants, including faculty members, students, and library professionals from across the country representing Central Universities, State Universities and Deemed Universities. A total of 35 papers were submitted for publication based on the seminar's themes, and 19 presentations were officially registered for the event.

The seminar featured a series of technical sessions and panel discussions providing a platform for discussing the most recent trends and challenges in library science covering major themes, Information in Digital Environment, Knowledge in Digital Environment, Wisdom in in Digital Environment, Indian Knowledge System, Indian Library System, Open System and Education.

The session proceeded with a brief introduction to the specific themes and structure of the seminar by Dr. Shailesh Marker, a member of the organizing committee and the Chair of the session. It was Co-chaired by Dr. Amit Kumar and Dr. Bhawnath Pandey and Dr. Vijay Parashar was the Rapporteur. The first presentation was by Dr. Vinay Singh Kashyap on "An analysis of Innovative Information Services of Libraries in Agriculture Institutions" exploring how these libraries are leveraging digital technologies, such as cloud computing, mobile apps, and online databases, to improve access to agricultural knowledge. She highlighted the role of libraries in facilitating research, supporting farmers, and enhancing collaboration between agricultural communities and institutions, ultimately contributing to more sustainable agricultural practices and informed decision-making. Second presentation was given by Dr. Mamta Rani on "Transformation of Academic Libraries: Emerging Technology and Trends". She discussed the innovations reshaping libraries to manage resources,

providing services, and support learning, enabling enhanced access to information, personalized user experiences, and improved research capabilities in academic environments. The next presentation was by Dr. Dushyant Verma on "Digital Libraries and their impact on the Indian Education system" in which he focused on the significant impact of Digital libraries on the Indian education system by providing easy and widespread access to academic resources, research papers, e-books, and learning materials. They have bridged geographical and infrastructural gaps, enabling students and educators across the country to access quality information, fostering inclusive education and supporting the growth of digital literacy. The fourth presentation was by Dr. Rajesh Singh on "Preservation of Vanshawali - Raos' and Charanas". He highlighted the importance of these indigenous knowledge resources and the need of its preservation. Fifth presentation was by Dr. Sonal Jain on "The role of Libraries in the preservation and management of the Indigenous Knowledge; Challenges and framework for Sustainable development". She discussed on preserving and managing indigenous knowledge by documenting, archiving, and providing access to traditional practices, languages, and cultural heritage. A sustainable framework for development involves integrating indigenous knowledge into modern library systems, ensuring respectful and culturally appropriate preservation methods, and fostering collaboration with indigenous communities for long-term sustainability. Sixth presentation was by Mr. Lokendra on "Interactive Learning through AI" where he emphasized on AI-driven platforms that can assess students' progress, offer tailored content, and engage them through dynamic interactions, enhancing both the speed and effectiveness of learning. This approach fosters deeper understanding and greater student engagement across various subjects. The next and the seventh presentation was by Dr. Charat Lal Bairwa on "User Perception of E-resources of Sri Karan Narendra Agricultural University (SKNAU): A Study of University Central Library, Jobner". His study focused on user perception of e-resources at Sri Karan Narendra Agricultural University (SKNAU) highlighting how students, faculty, and researchers engage with digital resources provided by the University Central Library, Jobner. It explores the accessibility, usability, and effectiveness of these e-resources in supporting academic and research needs, while identifying challenges like digital literacy and infrastructure limitations that impact user satisfaction and resource utilization. The last presentation of this session was by Dr. Tagaram Choudhary on "Emerging Trends in Library and its impact on Agricultural Education". He discussed on emerging trends in libraries, such as the integration of digital resources, AI-driven information systems, and open-access databases, which are transforming agricultural education by providing students and researchers with quick, comprehensive access to up-to-date information on agricultural practices, research, and technologies. These advancements enhance learning, support research innovation, and promote the sustainable development of agriculture by bridging the gap between traditional knowledge and modern practices. All the presentations were very informative and delivered nicely.

After the lunch break, the second session was commenced. The chair of the session was Dr. Deep Singh, Co-chaired by Dr Arvind Sharma and the rapporteur was Dr. Meenakshi. The first paper was presented by research scholar Mr. Manoj Kumar on "Role of AI in transforming User Experience in Libraries: A study of Central University of Gujarat." The study examined how artificial intelligence technologies are enhancing library services by personalizing user interactions, improving resource discovery, and streamlining administrative tasks, ultimately transforming the way users access and engage with library resources. The second paper was presented by Dr. Upendra Kumar on "From Data to Wisdom: Leveraging Artificial Intelligence for Knowledge creation". He presented the utilization of machine learning, data analytics, and natural language processing. AI enhances decision-making, fosters innovation, and accelerates knowledge creation across various fields, empowering individuals and organizations to derive meaningful patterns and wisdom from complex data. The third paper was presented by Mr. P Missao, Research Scholar from Delhi University. He talked on the use of research management tools and briefed his study conducted in the two universities Rajiv Gandhi University and Sikkim University on "Awareness of Academic Reference management Software Tools for Research: A Study of Zotero, Mendeley, Endnote and RefWorks". The fourth paper was presented by Dr. Mayank Agrawal on "Utilizing AI in Libraries and Information Centers". He discussed about the AI-powered tools, like chatbots and virtual assistants, offering personalized support to users, while machine learning algorithms improve search accuracy and facilitate data analysis. These technologies streamline operations, increase efficiency, and create more dynamic and accessible environments for users to engage with library resources. The fifth paper was presented by Dr. Arun Pratap Singh on "Library and Information Services in Veterinary Science Research" emphasizing the pivotal role of Library and information services in veterinary science research in providing access to specialized resources such as journals, databases, and research papers focusing on animal health, diseases, and veterinary practices. These services support researchers, clinicians, and students by ensuring the availability of up-to-date, accurate information, facilitating evidence-based decision-making, and fostering innovation in the field of veterinary science. Digital platforms and databases further enhance accessibility, enabling remote users to access critical information. The sixth paper was

presented by Dr. Rajesh Achra on "Mobile Technologies and AI in Libraries: A Comprehensive Review of Chat GPT Application." He focused on Mobile apps enabling users to browse catalogs, borrow materials, and receive notifications on-the-go, while AI enhances personalized recommendations, search capabilities, and virtual assistance. These technologies improve user engagement, streamline library operations, and offer more flexible, efficient services in a digital-first world. The seventh paper was presented by Dr. Chandra Shekhar Kapoor on "Climate Change and its Impact in Udaipur and its Surroundings" presenting an overview of the environmental challenges faced by the region, including rising temperatures, erratic rainfall, and water scarcity. These changes have significant implications for agriculture, water resources, and local communities, potentially affecting livelihoods and ecosystems. The last presentation of the day was by Sandeep Kumar on "Unlock Knowledge through e-learning platforms". He discussed about the E-learning platforms by providing accessible, flexible, and interactive learning opportunities for users worldwide. These platforms offer a wide range of courses, resources, and tools that cater to diverse learning needs, enabling learners to acquire new skills and knowledge at their own pace. By leveraging technology, e-learning breaks down geographical and temporal barriers, promoting lifelong learning and knowledge sharing.

The first day of the session of the National Seminar was a resounding success, marked by insightful lectures, engaging discussions, and the laying of a strong foundation for the rest of the event. Participants left the session with a deeper understanding of the current landscape of library science and its future in the digital era. The energy and enthusiasm set the stage for the technical sessions and discussions that followed throughout the seminar. The session was concluded with the felicitations of the dignitaries by Prof. L. R. Yadav and a group photo were the highlight of the day.

Day – 2 : 07.12.2024

The sessions on Day 2 delved deeper into the seminar's themes covering a wide range of topics, from the latest technologies in library management to the critical challenges of digital preservation enriching the understanding and broadening the perspectives of the audience.

The session was opened by the chair Prof. L. R. Yadav, University Librarian, SKNAU, Jobner along with the Co-chair Dr. Rekha Bairwa, Assistant Librarian, MLSU, Udaipur and Dr. Vinay Singh Kashyap as the Rapporteur with the announcement of the first keynote Speaker, Dr. Amit Kumar, Associate Professor, Central University of Gujarat, Gandhinagar. He elaborated the burning topic of today's digital world namely "Copyright" and "Intellectual property Right" and "Role of Social Media in context of Library and Information Science discipline as well as information era". Social media plays a significant role in the field of Library and Information Science by facilitating information sharing, collaboration, and community building. Libraries use platforms like Facebook, Twitter, and LinkedIn to engage with users, promote resources, and disseminate information quickly. In the broader information era, social media also supports the democratization of knowledge, enabling real-time communication, fostering discussions, and enhancing access to diverse viewpoints and expertise. The next invited talk of this session was from Dr. Minaxi Parmar, who presented the robusteousness of websites of agriculture university and how the informative website impact on scholarly practice. She explained very well the compound subject "Agriculture" and combined the same with "Computer Science" and the presentation had been done based on fundamental FIVE LAWS of Library Science. Here, it shows the three subjective elements on one subjective world. She presented newly formed five laws of library science. The last talk was presented by Dr. Deep Singh on the advancement of ICT application, tools and techniques in information sciences and the roles of electronic and digital resources in dissemination of knowledge. He also discussed the different repositories, data systems and the reference tools in research and how these resources can be used to compile a good research work.

In this session two participants namely, Mr. Darshit and Mr. Arjun presented their study, its abstractive report mentioned as:

1. Mr. Darshit's presentation was well-structured according to the research methodology criteria for descriptive research in social sciences. He effectively described web resources that are beneficial for scholars, students, learners, and experts in the agricultural field. Various databases relevant to agricultural research are detailed, along with the procedures for using them. Agriculture, as a multifaceted subject, was presented here by linking it to emerging ICT trends.

2. Mr. Arjun presented a highly relevant topic in the digital age titled "Ethical Issues in Information Science: A Review of Literature". Ethics, as the core of human integrity, reflects a scholar's commitment to research and their academic community within the context of Information Science. The author discussed the responsibility of scholars and their genuine passion for research, emphasizing the proper acknowledgment of the information used.

A panel discussion on "Emerging Trends in Information and Knowledge System in Digital Environment (ETIKSDE 2024)" was held at 12.00 noon, where experts from various fields, including librarianship, information technology, and academia, shared their perspectives after having a Brain Storming session.

Following topics were discussed and recommended by in the open session:

1. Faculty and professionals in Library and Information Science (LIS) must work together to meet the objectives of providing a high-quality user experience.

2. Emerging trends in libraries will continue to shape the field, so LIS professionals need to remain up-to-date and proficient in the latest technologies.

3. Digital resources will aid researchers by providing precise information and improving efficiency, ultimately saving time and enhancing accuracy.

4. LIS professionals have a responsibility to promote library resources effectively to ensure users are well-informed and able to utilize available tools.

5. Libraries play a vital role in supporting research, education, and the holistic development of students within their parent institutions.

6. Research is a fundamental activity in academic institutions. To maintain high standards of research quality and prevent plagiarism, appropriate research management tools should be implemented, with LIS professionals playing an essential role in ensuring these tools are used effectively.

7. Ethical considerations in the digital library landscape, including data privacy and intellectual property.

The closing session of the **The National Seminar on Emerging Trends in Information and Knowledge System in Digital Environment (ETIKSDE 2024)** was a moment of reflection, appreciation, and forward-looking perspectives. The session began with a recap of the major highlights from the seminar, summarizing the key themes and valuable insights shared by the distinguished speakers, presenters, and participants over the course of two days. The session was graced by Prof. R.L. Raina, Hon'ble Vice Chancellor, Jaipur National University, Jaipur as the Chief Guest for the closing ceremony, who delivered an inspiring address. The Chief Guest emphasized the evolving role of libraries in the modern world, stressing how technological advancements, such as artificial intelligence, cloud computing, and digitization, are reshaping the way libraries function and engage with users. He acknowledged the critical role libraries play in ensuring equitable access to information and knowledge, which in turn fosters inclusive education and community development.

Certificates of participation were awarded to all delegates who attended the seminar, acknowledging their commitment to professional development and lifelong learning. Additionally, prizes were given to the best paper presentations, recognizing excellence in research and contribution to the field of library science. The winners shared their thoughts on the importance of research in library science and its role in transforming libraries into knowledge hubs for the digital age.

The formal proceedings concluded with a heartfelt vote of thanks by Dr. Charat Lal Bairwa, Assistant Librarian and Organizing Secretary, who expressed gratitude to the organizing committee, sponsors, speakers, and participants which made the seminar a reality. The National Seminar on **Emerging Trends in Information and Knowledge System in Digital Environment (ETIKSDE 2024)** was a successful and enriching event that provided valuable insights into the evolving landscape of library and information science. It addressed critical issues and provided practical solutions to help library professionals navigate the challenges of the digital age. The event served as an excellent platform for collaboration, networking, and the exchange of knowledge among the participants. It was profounded that as we embrace new technologies, digital tools, and emerging trends, it is crucial that we remember the fundamental role, libraries play in shaping the future of education and research. Libraries are not just repositories of information—they are vibrant centres of learning, collaboration, and innovation.

The two-day National seminar was officially concluded with a sense of accomplishment, inspiration, and enthusiasm for the future. Participants left with renewed motivation to implement the knowledge gained and to continue advancing the field of library science, particularly in light of emerging technological trends and challenges. The organizing committee looks forward to future editions of the seminar, hoping to continue fostering innovation and excellence in the field of library science.