



## VBT's

Institute of Library &  
Information Science

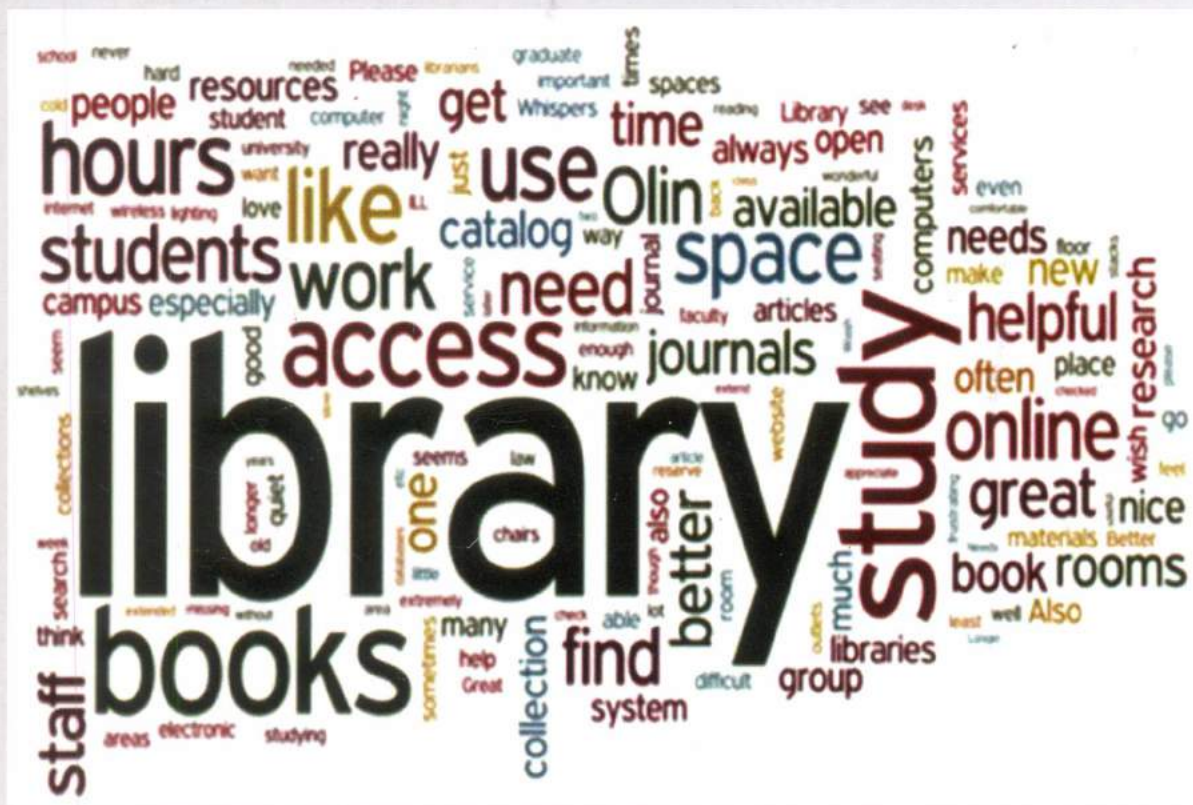
# 1<sup>st</sup> National Conference on



# Next Generation Librarianship

*(An attempt to explore and excavate the knowledge, information and contributions of library systems to lead the humanity towards eternity)*

3<sup>rd</sup> October 2015



Organised by

## Department of Library and Information Science

## Faculty of Arts and Humanities

**C. U. SHAH UNIVERSITY**

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**National Conference  
on  
Next Generation Librarianship  
NCNGL 2015**

*(An attempt to explore and excavate the knowledge, information and contributions of  
library systems to lead the humanity towards eternity)*

Selected Papers of the 1<sup>st</sup> National Conference on Next Generation Librarianship, held at  
Department of Library and Information Science, C. U. Shah University, Wadhwan City,  
Gujarat, on 3<sup>rd</sup> October 2015

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## Proceedings of the 1<sup>st</sup> National Conference on Next Generation Librarianship

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## Performance of Digital Libraries in Biotechnology Educational Institutes in Gujarat State

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**Abstracts:** Recent trend of Science turns to Biotechnology Education with different branches viz. Medical Biotechnology, Industrial Biotechnology, Environmental Biotechnology, General Biotechnology and many more. Researchers, faculties and students demand literature for the latest research in Biotechnological sectors in India and other developing countries. Present library system converts traditional library to automation and digital library. It is necessary to serve library services and marketing products of digital documents to our prompt library users with latest technology use in Biotechnology Educational Institutes.

### History of the Biotechnology:

Some history of Biotechnology is as under.

1863: Mendel discovered the rules of trait inheritance through studying pea plants

1953: Watson and Crick reveal the doublehelix model of DNA

1961: Monod and Jacob discovered mRNA.

1965: Edman developed chemistry enabling automatic protein sequencing

1966: Genetic codes determined (Kohrana and Nirenberg)

1973: Cohen and Boyer created the first recombinant DNA using bacterial genes

1974: Milstein and Kohler created a "immortal" cell line that would produce large amounts of antibodies (hybridoma technology)

1974: The National Institute of Health forms a Recombinant DNA Advisory Committee to oversee research safety and ethics.

1977: Genetically engineered bacteria was used to make human protein

1981: The first gene-synthesizing machines were developed. The first genetically engineered plant was reported. Mice were successfully cloned

1983: PCR (polymerase chain reaction) was perceived

1983: The discovery of the first tumor suppressor gene

1985: Human Genome Project began

1987: Recombinant microbes were field tested for its ability to protect strawberry from frosting.

1989: Microorganisms are used to clean up oil spill; The gene responsible for cystic fibrosis is discovered.



- 1991: The first federally approved gene therapy treatment is performed successfully on a 4-year old girl suffering from an immune disorder.
- 1994: The first breast cancer gene was discovered. Genetically engineered tomatoes (Flavr Saver) available in market
- 1997: Dolly was cloned; the field of bioinformatics, which combines DNA chips, PCR and computer programs was developed to accelerate the study of genes
- 1998: Human skin is produced in vitro; embryonic stem cells are used to regenerate tissue and create disorders mimicking diseases. The first complete animal genome for the elegans worm is sequenced.
- 2000: "Golden Rice," modified to make vitamin A, promises to help third-world countries alleviate blindness.
- 2001: The working draft sequence of the human genome is published
- 2001: siRNA named "molecule of the year" in Science Magazine

#### **Biotechnology Institute in Gujarat:**

Over 35 institutes in Gujarat State equipped with all the required facilities, serve for biotechnology education. The University Grants Commission has approved B.Sc with biotechnology as a professional course in India. Following this, Rajkot and Vallabh Vihyanagar offers B.Sc. with Biotechnology. The integrated courses in Gujarat i.e. M.Sc. Biotechnology course is also available. The duration of it being five years. The admission to this course is available after Std. 12th science. This course is offered in (1) C.C.B. Institute of Bioscience Technology, Gopal Vidhyanagar (Bardoli, Surat) Phone 255882 and (2) Ashok & Rita Patel Institute of Integrated Study & Research in Biotechnology & Allied Sciences, New Vallabh Vidhyanagar (Anand ) Phone 02692-229189.

#### **Biotechnology Education in Academic Universities in Gujarat:**

Sardar Patel University in Vallabh Vidyangar offers course for M. Sc and PhD degree in Biotechnology and other University in Gujarat like as Gujarat University, M. S. University, Hemchandracharya North Gujarat University, Patan, Nirma University, Ahmedabad, Anand Agricultural University, B A College of Agriculture, Anand (M. Sc. Agricultural Biotechnology), College of Veterinary Science & Animal Husbandary ( M. Sc. Animal Biotechnology), College of Agriculture, Junagadh Agricultural University, Junagadh, Veer Narmad South Gujarat Univesity, Surat. , Saurashtra University Rajkot ect., offer M. Sc Biotechnology. Gujarat State Biotechnology Mission also offer an MPhil in Biotechnology.

#### **Biotechnology Educational Institutes Digital Libraries:**

Traditional Library turn to Information Technology and free open software for digital library like D-space, Greenstone. These are widely used in higher education system and all library documents like manuscript, Research papers, Dissertations, Research articles, different types of online and free database of biotechnology related subjects, latest research in biotechnology, e-books, e-journals are readymade digital formats as well as all library collections convert to digitized formats as access to local host or free access world wide to disseminate knowledge.

#### **Present Scenario:**

Made by Publishers resources database is different subject aspect with current trends information. These databases are used in research work. Some databases have free access and download for potential user. UGC and other funded agency help with the online database for Granted Institutions as well as Self finance Institutes covered under UGC 12(B) 2b (f) certificate. UGC has introduced a number of development schemes to take the libraries forward in our country. UGC has launched



INFLIBNET in 1991 which in turn has helped modernizing and networking university libraries in India. National Knowledge Commission was set up in 2005 to transform India into a knowledge society in this 21<sup>st</sup> century. As the focus of NKC was basically in building excellence in education and promotion in the creation, management and utilization of knowledge in various sectors of higher education and Governmental libraries. Digital software was an effective way to digitize library operations without undertaking substantial financial steps and helped in reducing the costs. Librarians need to understand open source software.

#### **Sharing of Digital Information Resources and Research and Development:**

National Knowledge Commission 13, June 2005 objective is "dissemination of knowledge focuses on ensuring universal elementary education, especially for girls and other traditionally disadvantage groups, creating a cultural of lifelong learning, especially for skilled workers: taking steps to boost literacy levels and using ICT to enhance standard in education and widely disseminate easily accessible knowledge that is useful to the public". Co-operation with resources of one library to another library and knowledge useful to number of users increase with low cost. Some of the advantages of e-journals are legal resource sharing, remote access, offer library patrons to search and download full-text articles, provide timely access, provide multi user access and save physical storage (Vishala, 2009).

#### **Digital Collection and Development:**

Traditional library with very good printed document and good reading facilities are no longer attractions for new generation users. They demand to supplement the printed document with more dynamic electronic document (Thaker, Urmila, 2011). Institute has core e-books and e-journal essential for teaching, other e-books and e-journals should not be duplicated. (Mohan, V. 2005) Digital Librarian, in addition to being digital library manager, they also act as collection developers, technical processors, Aware of Digital Right Management and Digital Millennium Copyright Act, 1998 and patent right.

#### **Proposed Model of Digital Libraries in BEI (Biotechnology Educational Institutes) of Advisory Committee:**

For the advantage of resource sharing, collection development and networking of digital libraries of the Biotechnology Institutes, Department of Universities, need the following advisory committee with functions viz. policy making, selection of e-book, e-journals, on-line data base, information services, computer network information system, to clear the conflict and other disputes between the participating institutions.

Vice Chancellor / Chairman	Gujarat Biotechnology Mission
One Director/ Principal/Head	Biotechnology Institutes (on rotation)
All Head Librarians	Biotechnology Institutes
Members	Subject Specialists (on rotation)
One Expert	Library Profession (on rotation)
One Computer/Network analyst	Participating Institutes (on rotation)
Student Representative	Two or Three students per institutes

#### **Biotechnology Institute Networking Systems in Gujarat:**

Gujarat State Biotechnology Mission (GSBTM) Department of Science and Technology, Government of Gujarat, Gandhinagar GSBTM will promote, support and facilitate the development of



biotechnology in the state by promoting research and development in the field of biotechnology, by generating the quality human resource in the field of biotechnology and by supporting the development of biotechnology industries by taking effective measures and policy and planning level. To promote, support and facilitate the overall development of Biotechnology in the State To provide institutional, legal, financial and policy support To facilitate networking among stakeholders at Regional, National and International level To facilitate the infrastructure development and R&D activities To create scientific awareness, sensitization, socio-ethical acceptance and adoption to the potentials and application of biotechnology.

#### **Need for Skills Development in Digital Library Systems:**

Human skills are one of the most important areas of human activity. Human skills are the single most important factor that can influence productivity, efficiency and excellence in a desired direction. Every Science has some important concepts that will help us to understand its subject matter. **Katz (1974)** has identified three types of Management Skills that are essential for a good manager. They skills are **Technical skills** (Apply specialized knowledge or expertise, formal training, learned through practice, on the job experience) **Human Skills** (It can be defined as the ability to work with, understand, and motivate other people, both individually and in groups) **Conceptual Skills** (Require the mental ability to analyze and diagnose complex situations. An individual who has good conceptual skills can think of alternative solutions and arrive at decisions quickly. All Librarians is human being and necessary for new trend, technology adopt with skills development. Knowledge society needs fully equipped knowledge centers with all type of infrastructure facilities and skilled and competent knowledge professionals. Librarian to take up the challenges with new skills. There is chance to expand right sets of skills and to enhance the profession and personal career. Digital library has created the need for staff re-training, attend different workshop related digital library and change work practices. It need user education in using digital library. It is also need change in services and digital products and its delivery to digital library users as per their expectations.

The changes in the information society demand constant readiness for additional training or retraining, as information technology influences, either directly or indirectly, all areas of library and information services; The librarians increased responsibility demands good professional education, flexible continuing education and professional development at different levels. In the college library environment the main services librarians are supposed to carry out are: circulation, photocopying services, Inter Library Loan, new techniques like bar code, RFID, Digital library creation, etc. Therefore, the following are possible broad development directions for information professionals:

1. Vision and planning skills;
2. Information handling skills using new technology
3. Influencing and negotiating skills
4. Creativity and learning
5. Team work and leadership
6. Change management skills
7. Adding value to new services
8. Forging alliances to provide innovative and effective services and
9. Offering dynamic support services to enhance learning and research.



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### **About C. U. Shah University:**

C. U. Shah University was established on 22nd April, 2013. It is promoted by Wardhman Bharti Trust - a Trust established in 1968, which is one of the best educational organization in the Saurashtra region of Gujarat. It is a self-financed, non-affiliating State Private University established under Gujarat Private Universities (Amendment) Act, 18 of 2013. University is spreaded over 45 acre campus is located in Wadhwan, which is the district head quarter of Surendranagar. The city is famous for its remarkable cultural development and social life. University offers more than 71 courses ranging from Engineering, Arts, Commerce, Science, Education and Management along with maximum exposure and opportunities to its students through various national and international seminars. Under 67 heads and disciplines in professional fields the C. U. Shah University offers globally recognized and UGC / AICTE / PCI / NCTE / BCI / MHRD approved International Courses meeting the tomorrow's industry demands. Many courses and colleges are NAAC accredited [www.naac.gov.in](http://www.naac.gov.in) . In house training programmes are organized for development of faculties and staff of the University. The C. U. Shah University aims for a clear understanding of small scale industry to medium scale industry to upper medium / large scale entrepreneurship. The University is a member of American Society for Quality (ASQ) Education. The University is Government recognized electrical energy audit center.

### **About Department of Library and Information Science:**

The Department of Library and Information Science is providing professional education to meet the needs of the global information society. The department contributes individual strengths to improve the quality of teaching, research, and services that uplifts the department to a center of excellence. The Department aims to prepare Library and information science professionals to demonstrate excellent in leadership, service, research, and education in this technology-driven world.

