

Impact of e-Resources on e-Learning in Higher Education

by

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INTRODUCTION

- 21st Century – Rapid changes in Education
- Teaching and Learning moving online
- Advantages over traditional inf. Resources
- Electronic resources available in Web enabled medium



- Publishers are interested in many issues, e.g.,
 - Publishing costs
 - Changing readership
 - Changing user expectations
 - Rights management
 - Archiving



- Many authors and Corporate bodies resorting to publishing their own scholarly publications
- Researchers are interested to access full-text publications and reference linking
- Many scientific journals are available online



- Electronic information has recorded growth market in the World
- Web searches encouraged users in browsing content pages of journals— by Author and Keywords.
- Paid subscribers are allowed browse full-text articles with downloadable facility



- E-journals are available online through Internet and Web.
- Organisations are initiating e-publications and also providing On-line services to users
- Researchers are acquiring varieties of skills in using Internet for research.



ELECTRONIC LIBRARY

- E-Library holds documents in electronic format
- Accessible to readers through electronic systems and networks
- E-Library aims at support teaching, learning and research.



Objectives

- Actively support teaching and research needs
- To produce library services and the users
- Network access
- Participate in disseminating the use of library and its researchers



E-RESOURCES IN LIBRARIES

- Exchange of information from Internet to Video Conferencing
- Simplified technology to create and distribute information with the help of library professionals
- Library as a center for learning resources



- E-resources include:
 - * eBooks
 - * eJournals
 - * CD-ROM / DVD resources
 - * Online resources
 - * Databases
 - * Web-Based resources



Characteristics of E-Resources

- Potentially huge
- Unorganized
- Comprehensive of everything
- Do not require Physical Space
- Feasibility in Full content searchability
- Constraints that are in physical libraries are barred in e-Resources



- Time, Space and Cost constraints are not a problem in Search strategies
- Hyperlinks lead the users quickly to the required information sources
- Easy in Archiving the content



E- LIBRARY REQUIREMENTS

- E-Learning depends on e-Resources
- Involving the experiences of students, teachers' strategies and planning schedule and teaching-learning content
- It requires:
 - 1) Staff development
 - 2) Technological delivery strategy
 - 3) Teachers' conception of preparation of teaching strategies;
 - 4) Student's learning interest

- Forms of information through TV and Internet
- Access requires instructional tools and search tools
- E-Book Readers for accessing information
- Software for Reading and downloading, saving, printing and transmitting



E-Books

- E-Books include:
 - 1) E-Books
 - 2) Reference works
 - 3) Monographs
 - 4) Text Books
- Delivered via the Web and handheld device



- Advantages:
 - Portability
 - Instant Access
 - Search ability
 - Annotation
 - Linking



Multimedia

Long term preservation of the material

Multiple titles in single book

Online Dictionary

Link to other sites

Old titles cannot go out-of print



Readers can add several chapters from
several books

Update text books minimal cost

Low publishing cost

Low distribution cost

Paper saving

Physical Space saving



Limitations of E-Books

- Expensive technology
- Inadequate Screen Resolutions
- Non-availability of titles in right format...



E-Journals

- Print Journal subscription has become outdated
- E-Publishing produced E-Journals
- Available through CD-ROMs and on Internet
- Subscriptions can be paid
 - Individually;
 - Institutions through consortia
- Consortia subscriptions are comparatively less
- Access Journals from one's Desktops
- Accelerating growth of e-Journals



- Subscribed e-Journals are available on Internet
- User can access through a Password or IP address



E-Journals Publishers:

- EBSCO
- Elseviers ScienceDirect...

Few Publishers allow Free e-Journals

- Directory Open Access Journals (DOAJ) is a free Website .. Covers full text, quality controlled scientific and scholarly journals in all subjects and languages.



GROWTH OF E-JOURNALS IN UNITED STATES

Year	Print Journals	Electronic Journals
1998	1710	200
1999	1475	4400
2000	1000	5000
2001	400	7600
2002	370	8600

Web Based Digital Resources

- Traditional Print Journals are more costly
- Publishing and e-mailing through Internet have advantages:
 1. Instant Communication or publishing;
 2. Internet accessibility
 3. Less cost to produce web resources
 4. Time saving without loss of effort

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5. Control in publishing process
6. Available in CD-ROM / DVD formats
manufactured by companies like;
 Sony
 Phillips,
 Hitachi...



ROLE OF LIBRARIAN

Stephen identified the new roles of the librarian in the changing contexts.

- Multi-media user-comfortable with a wide range of formats
- Intermediary - with a good knowledge of sources and user requirements
- Enabler - proactively connecting users with information they require



- Metadata producer - creating records of information sources in a variety of schemas
- Communicator – formally and informally liaising with users
- Team player – working with colleagues in library, IT services and academics
- Trainer / educator – taking on a formal role to teach information literacy and skills



- Evaluator – shifting free and paid for resources on behalf of users
- Negotiator – dealing with publishers and suppliers
- Project manager – leading on development projects to enhance the service



- Innovator – not just following the routine but also looking at improved ways to deliver the service
- Fund-raiser – working for greater income from the institution and beyond



- Stephen also stated the librarian's role requires a wide range of skills, which include
 - Professional skills
 - Technical and IT skills
 - Flexibility
 - Ability to learn quickly



- Communication skills
- Negotiating skills
- Presentation skills
- Teaching skills
- Team working skills
- Customer service skills
- Analytical and evaluative skills
- Subject skills
- Visionary with project management skills



E-Library Establishment

- For establishing Electronic Library the following phased-wise changes are required:
- Automation of Library system
- Development of Electronic Collection
- Subscription to CD-ROM, E-Journals, Electronic Contents Service



- Procurement of CD-ROM publications
- Document retrieved from Internet
- Digitisation of Newspaper Clippings
- Compilation of important URLs of Free E-Journals, E-Books, E-databases



E-LEARNING

OBJECTIVES

- Effective on-line access
- Internet is the incredible resource for e-learning
- Lot of difference between class room teaching and distance learning



- Distance learners – at any time – at any place (no time bound restrictions)
- It is possible to get help and advice
- Students assessment of learning in a classroom and through distance learning in the same subject.



- Students feel advantageous on e-learning
- Teachers' discretion prevails in class room situation
- Teaching content also in various styles depending on the capacity of individual teachers



- Web resources include:
 - Newsgroups
 - Mailing lists
 - Web pages of various courses
 - Lecturers' personal pages
 - Practical exercises
 - Distance learning assessment tests



FRAME WORK FOR E-LEARNING

- Alexander proposed a framework to deliver e-learning initiative to deliver the course as:
- a vision for e-learning at the institution;
- development of a technology development plan;
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- development of faculty workload policies which relate to e-learning;
- maintenance of a reliable technology network;
- facility for providing technology support to staff and students;
- market research support; and
- provision of time release for faculty engaged in e-learning developments.



Advantages of E-Learning

- The main advantages e-learning are flexibility, convenience to users, wide reach, easy accessibility, consistency.



ADVANTAGES OF E-LEARNING TECHNOLOGY

According to Alexander, the merits in using e-Learning technology in both classroom and distance learning are:

- improving the quality of learning;
- improving access to education and training;
- reducing the costs of education; and
- improving the cost-effectiveness of education



State-of-the-art of Collegiate Libraries

- The libraries at higher education are getting exposure in the light of Inflibnet programme. The UGC's Information Library Network is in the forefront of automation of academic libraries in Indian universities and colleges. Software for University Libraries (SOUL) has been brought out and successfully running in many colleges of various states in India.

- In Andhra Pradesh also the Govt. has opted to provide college library automation in phased manner. It is also planning to join in UGC-Infonet e-journal consortia for implementing in College libraries. The following equipment required as a pre-requisite, being provided to the colleges and gradually streamlining the system



- Server:
- CPU: Pentium III @ 833 MHz
- RAM: 128 MB 133MHz SDRAM
- Hard disk: 9.1 GB Ultra Wide SCSI running @ 10,000 RPM
- CD CD-DRIVE : 48 X
- Floppy Drive: 1.44 MB
- Ethernet Card: 10/100 MBPS
- Keyboard / Mouse: Standard key board and mouse
- Monitor: SVGA digital color monitor capable of 1024 X 768
- All controllers to be minimum 32 bit
- Windows NT Server (With service pack 6) / Windows 2000 Server
- Microsoft SQL Server 7.0 / 2000



- Client:
- CPU: Pentium III @ 833 MHz
- RAM: 64 MB 133MHz SDRAM
- Hard disk: 9.1 GB EIDE
- CD CD-DRIVE : 48 X
- Floppy Drive: 1.44 MB
- Ethernet Card: 10/100 MBPS
- Keyboard / Mouse: Standard key board and mouse
- Monitor: SVGA digital color monitor capable of 1024 X 768
- Windows 98 / 2000



CONCLUSION

- Teaching-librarian concept should prevail at undergraduate level. It has become a belief in the minds of teachers and administrators, teaching can be imparted only through class rooms. The teaching concept of librarian is still in idea plane only. The advanced services of open access, information technology, automation, electronic services, electronic browsing etc., are in contradictory in the nature of erstwhile librarian's custodial responsibilities.



- Now rapid changes have been incorporated in libraries managing such services in the libraries. The definition of a library as store of books has been redefined as “the Learning Resource Centre”. It is hoped that the age old rules and regulations like attributing book losses to a single head librarian and no proper weeding out policy, understaffed environment etc. are required to be modified synchronizing the modern outlook.



1. The College Library should be named as “Learning Resource Centre”
2. It should be made as a rule to procure the library resources in digital form as far as possible. CD Rom databases are available.



3. For the existing books, within the copy right limitations, the collection should be digitized and preserved in the form of CDs.
4. The library should be provided at least 3 to 5 systems exclusively for OPAC.
5. Strengthening the automation process by providing maintenance (Annual Maintenance Contract).

