

Access Usage and Designing Digital Library for Engineering Discipline

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Abstract- This Paper an attempt has been made towards the design and development of Digital Library for Engineering Educational Institutions some of the major online publishers and their products and services are outlined, which will form a basis for the design and development of digital library for Engineering. A case study of Engineering Libraries in and around Chennai has been carried out to Design the Digital Library for engineering discipline.

Index Terms- Digital Library, E-Learning, Digital Library Design.

INTRODUCTION

Digital Libraries basically store of materials in Electronic format and manipulate large collection of those materials effectively. The main focus of Digital Libraries should be on issues of access, cost, Digitization Technology and E-Learning and how to develop the necessary infrastructure for effective mass manipulation of the Information in the Network. Digitization is a component process in the establishment of a Digital Library. Digitization of resources depends on the nature and importance of the Original source materials. Digitization of such resources enhances the access, ensures the long term preservation of the Original Information.

DIGITAL LIBRARY

When the Information is organized processed and transmitted by means of Digital devices, creation and maintenance of Information in Digital format, Digitization of the documents of the Library. It is Printed Form and Online Access to the external Digitized Information with the provision of user ID and Password to the user. Digital Collections and Digital Libraries almost mean the same. Provision of a range of services with the help of Digital documents in Digital Environment constitute the

Digital Library. Digital documents physically available within Four Walls of Library comes under the Possessed Digital Collections and consist of CDs, DVDs and WWW (World Wide Web) Internet is another Digital Collection that a Library can provide access to WWW is an illustrated version of Internet or I can say that WWW is an Electronic mix of whatever material an individual deems worthy of Presentation. It is often described as network of network. It began in the late 1980s when physical DR. Berners Lee wrote a small Computer Program which allowed pages within his Computer to be linked together using keywords. It soon become possible to link documents in different Computers as long as they were connected to the Internet. WWW can be considered as a global Online Library Where anybody can become an author and publisher. Link allow a to jump from one page to another across the globe.

E - LEARNING

E-Learning basically is the use of web based technologies and solutions in the learning process and provides faster learning today's world is driven by the need for quick access to Information. The key to success is moving knowledge from the people who have it to the people who need it E-Learning gives students the power to do exactly that, virtually students can sharpen their skills and develop new concepts. E-Learning provide their work force with the ability to turn the changes valuable.

- Practice and learning can take place at anytime and anywhere with an Internet Connection.
- Students can practice in the Privacy of their own home and at their own place there by building confidence and combating shyness.
- Good Learning Environments allow Students to Focus on the task in hand and ensure that the screen is kept free of distractions.

- E-Learning provides highly interactive experiences. Games, Exercises and Tests motivate the learner and enhance traditional classroom study HTML, PDF, XML, TEL, also came forward as document formatting Languages.

DIGITAL LIBRARY DESIGN

The Ministry of Human Resource Development, Government of India has a setup a Consortia based subscription to Electronic Resource for technical Education system in India on the recommendation made by the expert group appointed by the ministry. The Consortium is named as the Indian National Digital Library in science and Technology (INDEST) Consortium Some Indian Universities and Research Institutions which attempted Digital Initiative are

- Jawaharlal Nehru University Delhi
- Indian Institutes of Technology
- University of Hyderabad

Elsevier's Science Direct
(<http://www.sciencedirect.com>)

Science Direct in the web-based interface to the full text data base of Elsevier Science Journals one of the world's largest providers of scientific, technical and medical literature. The Science Direct offers a rich Electronic Environment for Research Journals, bibliographic database and reference works. The database offers more than 1500 Scientific Technical, Medical Peer Reviewed Journals, over 59 Million abstracts over two million full text scientific Journals articles an expanding suite of bibliographic databases and linking to another one million full-text articles via cross ref to other publisher's platforms.

Springer verlag's Link (<http://link.spring.de>)

The link provides web based full text access to the scientific journals published by the Springer verlag. It incorporates full text of more than 450 journals several thousands books and other serial publications. The Springer verlag has offered full text access to complete collection of their Electronic Journals (approximately 300) excluding Journals in Medical Science with restrictions in number of downloads limited to maximum of 2000.

Full Text Online Publisher IEL online
(<http://Ieexplore.lee.org>)

The IEEE/IEE Electronic Library (IEL) Provides a single source to almost of the world's current Electrical Engineering and computer science literature granting un parallel access to publications from the Institute of Electrical and Electronic (IEEE) and the Institution of Electrical Engineers (IEE). The source more than 780,000 documents from over 12,000 publications including Journals Conference Proceedings and IEEE standards. It provides access to more than two million full page PDF images.

Digital Collections and their use

Libraries always have collected materials in a variety of formats, but Digital documents are the first to transcend time and space. Digital documents can exist in numerous identical copies or one copy can be accessed by numerous users, accentuating the tradeoffs between assets and access collection development libraries try to spend their funds on the materials judged most likely to be needed by their user communities and then rely on inter library loan to borrow other items on demand. However, in the case of Electronic resources it may be more reasonable to acquire items only on demand eg:- Instead of procuring volumes of E-Journals unitary articles may be acquired individually. It is essential that our Information Institution apart themselves to new environments triggered off by Digital resources.

CONCLUSION

The Digital Library concept is growing at a first place in the present area. User Friend lines of library and Information system is a consideration in the development of the Digital Library the basic purpose of Digital Library is to provide instant access to Digitized Information from remote databases throughout the world. To build Digital Libraries we need not only important software and hardware and new technologies, but manpower is also very important.

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