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IMPORTANCE OF ELECTRONIC THESES AND DISSERTATIONS (ETD,S) ON INTERNET: A SURVEY OF INDIAN ETD REPOSITORY SHODGANGA

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ABSTRACT

ETDs can contain non-text elements such as multimedia, sound, video, and hypertext links. This enables scholars worldwide to locate, search, and download ETDs. For most scholars, the the Ph.D thesis and M.phil dissertations are the first major work of scholarship they produce. To make those works more readily available to other scholars, as well as to save money, many universities and libraries are now making digitized (or electronic) versions available. The Shodhganga@INFLIBNET is set-up using open source digital repository software called DSpace developed by MIT (Massachusetts Institute of Technology) in partnership between Hewlett- Packard (HP). The DSpace internationally recognized protocols and interoperability standards. Shodhganga provides a platform for research scholars to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. An attempt has been made to determine the present status of participating Indian Universities in Shodganga.

Key Words: Electronic theses and dissertations, Shodganga, Inflibnet, Indian Universities and Open access.

1. INTRODUCTION

Theses and dissertations are known to be the rich and unique source of information, often the only source of research work that does not find its way into various publication channels. Theses and dissertations remain an un-tapped and under-utilized asset, leading to unnecessary duplication and repetition that, in effect, is the anti-theses of research and wastage of huge resources, both human and financial. In all of the universities participating in the ETDs Initiative, libraries are responsible for maintaining accessibility by ensuring that files produced by outmoded or obsolete applications are translated into newer media as necessary. That has resulted in the creation of new positions or added responsibilities for many library staff members and administrators. The move from paper to electronic versions of theses and dissertations has been possible only through expenditures of time and money on the part of library and information sciences programs. That need for more resources, however, is not unique to ETDs. Libraries are devoting resources to digitizing all kinds of information, not only ETDs, but traditionally published works as well. While some fear that all the work being done to digitize information will be lost with the next major change in technology, in fact, software publishers in

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recent years have been careful to assure that newer versions of software usually accommodate files produced by older versions. Thus it is not likely that changes in technology will make ETDs inaccessible. ETDs are easily backed up, so the risk of losing information is minimal. ETDs stored electronically are less likely to be damaged than their print counterparts, since they have no physical form to yellow and decay with age, and since loaning out a copy does not include relinquishing the original. And advances in technology have made possible increases in electronic storage capacity (such as advances in file compression technology and the availability of larger hard drives) those substantially lower costs. The storage potential of libraries may increase exponentially. Electronic publication of theses and dissertations can make access and distribution faster and less expensive for most scholars. NDLTD, for example, makes theses and dissertations available free on the Web, and many libraries and universities offer computer access to the World Wide Web. Most universities also provide printing. As projects like the National Digital Library Project make more information available online, it is likely that the trend toward providing faster, cheaper, and easier public access to ETDs will continue.

Shodhganga maintained by INFLIBNET replicates academic structure of each Indian University in terms of Departments/ Centres/ Colleges each University has to facilitate ease of navigation. This structure facilitates research scholars from universities to deposit their theses in the respective Department / Centre / College. The Centre is also developing a semantic web-based interface to facilitate subject-based browsing, navigation, search and retrieval of content available in the repository. A brief report of the survey about Shodganga has been presented in the following paragraphs.

2. REVIEW OF LITERATURE

Many libraries are now in the process of digitizing information in an effort to preserve it and to make it more widely available. The Library of Congress's National Digital Library Project plans to digitize 17 million items by 2015, and many university, public, and private libraries worldwide are currently working on digitizing their collections as well. The Networked Digital Library of Theses and Dissertations (NDLTD), funded by a grant from the U.S. Department of Education, is a collection focused specifically on digitized versions of theses, dissertations, and technical papers that began in 1996 at Virginia Tech. The NDLTD reports that more than twenty universities around the world have become official contributing members of the Initiative within just the past year, and nearly twice that number have expressed interest or are taking steps to participate. with University Microfilms International (UMI), a commercial service that, according to its Web site (1997), "publishes and archives dissertations and theses; sells copies on demand; and maintains the definitive bibliographic record for over 1.4 million doctoral dissertations and master's theses. Shodganga of INFLIBNET in India is playing a major role in providing access to electronic thesis and dissertations (ETD,s) submitted to Indian Universities across India. The main aim of Shodganga online service is provide information about research works in India to users, so that duplication of work can be avoided.

3. FORMATS FOR ETDS

Most students already prepare their theses or dissertations electronically, using computers and word-processing software. Formats proposed to make ETDs easily viewable through different platforms include the use of PDF (or Print Document Format) files created with <u>Adobe Distiller</u>. That software creates an exact, digitized picture of a document, page by page, including any graphics and fonts. The file can then be downloaded and viewed using the Adobe Reader,

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available free on the Web. PDF documents retain all formatting and graphics and also allow the author to include links to other sites on the Web or annotations within the article. In addition, Adobe files can be indexed easily and searched by keywords specifically chosen by the author or indexer. PDF documents available on the Web may also be searchable using words or phrases found anywhere within the document, thus greatly facilitating a researcher's task. For larger and more complex documents, Virginia Tech encourages submission of ETDs in LaTeX or TeX format. LaTeX and TeX are device-independent document formatting systems that use PostScript fonts. They are particularly useful for formatting complex mathematical equations in electronic documents. Those files are then converted to PDF format.

4. COPYRIGHT AND PUBLICATION

Publishers are concerned about the relationship of ETDs to other forms of publication. Often a dissertation becomes the basis for a scholar's first book. While most of those works are considerably revised for publication, some are published with relatively few changes. Even though paper theses and dissertations are available, most academic presses are not as concerned that they represent prior publication, probably because of the barriers of time, distance, and cost. However, the prospect of having full texts available on the World Wide Web, given that the market for scholarly books is very small, may worry some publishers. On the other hand, greater access might be seen as a way to induce readers to preview a book.

5. SHODGANGA INFLIBNET

Shodhganga" is the name coined to denote digital repository of Indian Electronic Theses and Dissertations set-up by the INFLIBNET Centre. The word "Shodh" originates from Sanskrit and stands for research and discovery. The "Ganga" is the holiest, largest and longest of all rivers in Indian subcontinent. The Ganga is the symbol of India's age-long culture and civilisation, everchanging, ever-flowing, ever-loved and revered by its people, and has held India's heart captive and drawn uncounted millions to her banks since the dawn of history. Shodhganga stands for the reservoir of Indian intellectual output stored in a repository hosted and maintained by the INFLIBNET Centre. In Indiat the UGC (University Grants Commission) Notification (Minimum Standards & Procedure for Award of M.Phil. / Ph.D Degree, Regulation, 2009) dated 1st June 2009 mandates submission of electronic version of theses and dissertations by the researchers in universities with an aim to facilitate open access to Indian theses and dissertations to the academic community world-wide. Online availability of electronic theses through centrallymaintained digital repositories, not only ensure easy access and archiving of Indian doctoral theses but will also help in raising the standard and quality of research. This would overcome serious problem of duplication of research and poor quality resulting from the "poor visibility" and the "unseen" factor in research output. As per the Regulation, the responsibility of hosting, maintaining and making the digital repository of Indian Electronic Theses and Dissertation (called "Shodhganga"), accessible to all institutions and universities, is assigned to the INFLIBNET Centre.

6. OBJECTIVES OF THE STUDY

- 1. To study the use of Shodganga by Indian Universities.
- 2. To Examine total no. of ETD,s submitted to Shodganga by Indian Universities.

7. METHODOLOGY AND ANALYSIS OF DATA

In order to know the usage of Shodganga by Indian Universities. The online website of Shodganga@INFLIBNET was studied, Where a detailed data about participating Indian Universities has been given. The website also provides the detail of all ETD,s submitted by participating Universities.

Table-1 Top 40 participating Universities

Rank Bundelkhand University 1436 1	Table-1 Top 40 participatii		
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University of Calicut19929Andhra University15030			
Andhra University 150 30			
			30
	Manipal University		

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Homi Bhabha National Institute 133 32 Tilak Maharashtra Vidyapeeth 106 33 Karnataka Veterinary University. 102 34 Karnatak University 96 35 Jawaharlal Nehru Technological 88 36 University, Anantapuram Sardar Patel University 83 37 Maharaja Savajirao University of 80 38 Baroda University of Kerala 70 39 **Gujarat University** 62 40

Table-1 shows that Bundlkhand University has submitted 1436 ETD,s and occupies the first rank among 40 Universities and Mahatma Gandhi University has 2nd rank with 1164 ETD,s. Universities of Pondicherry, Hyderabad and Punjab have got 3rd, 4th and 5th rank and so on. It shows that now the Indian universities are in race of submitting ETD,s to shodganga, which will ultimately benefit all the users across India and Globe. But number of Indian Universities are not interested in Submitting ETD,s to shodganga. Table-2 shows even till jan-2014, some Universities have not submitted even a single ETD to Shodganga.

Table-2 All the Indian Universities participation up to Jan-2014.

Name of the University	No's
Acharya Nagarjuna University	235
Aligarh Muslim University	263
Amity University	1
Andhra University	150
Anna University	532
Avinashilingam Deemed University for Women	51
Banaras Hindu University	1
Bangalore University	0
Bharathiar University	1
Bharath University	20
Bundelkhand University	1401
Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya	53
Cochin University of Science & Technology	1275
Deccan College Post Graduate And Research Institute	2
Devi Ahilya Vishwavidyalaya	3
Dr. Babasaheb Ambedkar Marathwada University	48
Dr. Ram Manohar Lohia Avadh University	0
Forest Research Institute University	15
Goa University [237
Gujarat Ayurveda University	5

Gujarat University	61
Gulbarga University	0
Gurukul Kangri Vishwavidyalaya	1
Hemchandracharya North Gujarat	1
University	14
Himachal Pradesh University	
ICFAI Foundation for Higher Education	1
Indian School of Mines	15
Integral University	29
Jadavpur University	2
Jain Vishwa Bharati University	9
Jamia Milia Islamia University	0
Jawaharlal Nehru Technological	234
University, Hyderabad	
Jaypee Institute of Information Technology	43
Jaypee University of Information	46
Technology, Solan	
Jiwaji University	114
Kadi Sarva Vishwavidyalaya	5
Karnataka State Womens University	10
Karnatak University	96
KLE University	14
Kumaun University	4
Kuvempu University	0
Lovely Professional University	0

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Madurai Kamraj University	0
Maharaja Krishnakumarsinhji	101
Bhavnagar University	_
Maharashtra Animal and Fishery Sciences University	7
Maharshi Dayanand Saraswati	0
University	
Mahatma Gandhi Antarrashtriya Hindi	1
Vishwavidyalaya	1164
Mahatma Gandhi University	1164
Mangalayatan University	_
Manipal University	137
Manonmaniam Sundaranar University	88
Maulana Azad National Urdu University	0
Mizoram University	20
Mother Teresa Womens University	1
Narsee Monjee Institute of Management Studies	39
Nirma University	28
Padamshree Dr. D Y Patil Vidyapeeth	2
Panjab University	11
Periyar Maniammai University	4
Pondicherry University	697
Pt. Ravishankar Shukla University	22
Punjab Technical University	33
Rani Durgavati Vishwavidyalaya	1
Sam Higginbottom Institute of Agriculture, Technology and Sciences	7
Sant Longowal Institute of Engineering and Technology	14
SASTRA University	1
Saveetha University	3
Shobhit University	1
Shri Jagdishprasad Jhabarmal Tibarewala University	207
Siksha 'O' Anusandhan University	6
Sree Sankaracharya University of Sanskrit	34
Sri Padmavathi Womens University	35
Sri Venkateswara University	0
St. Peter's University	7
Swami Ramanand Teerth Marathwada University	1
Symbiosis International University	21
Tamil University	5
Teerthanker Mahaveer University	2
Tezpur University	16
The ICFAI University	1
Tilak Maharashtra Vidyapeeth	106
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Haiversity of Agricultural Sciences	14
University of Agricultural Sciences, Bangalore	14
University of Calicut	199
University of Hyderabad	418
University of Kalyani	1
University of Kerala	70
University of Madras	1
University of Mysore	52
University of Pune	290
U P Rajarshi Tondon Open University	16
V. B. S. Purvanchal University	10
Vels University	17
V O Chidambaram College of Education	1
Alagappa University	2
Allahabad University	0
Amrita Vishwa Vidyapeetham (University)	51
Annamalai University	0
Assam University	3
Babasaheb Bhimrao Ambedkar University	0
Banasthali Univesity	0
Berhampur University	0
Bharathidasan University	342
B S Abdur Rahman University	3
Chaudhary Charan Singh University	1
Chhatrapati Sahuji Maharaj University	1
Dayalbagh Educational Institute	45
Deendayal Upadhyaya University	0
Dravidian University	1
Dr. Harisingh Gour Vishwavidhyalay	0
D Y Patil University	1
Gauhati University	19
Graphic Era University	3
Gujarat Forensic Sciences University	2
Gujarat Vidyapith	11
Guru Ghasidas University	60
Guru Nanak Dev University	134
Hemwati Nandan Bahuguna Garhwal University	0
Homi Bhabha National Institute	133
Indian Institute of Foreign Trade	5
Institute of Chemical Technology	23
International Institute of Information Technology Bangalore	3
Jai Narain Vyas University	2

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Jamia Hamdard University	56
Jawaharlal Nehru Technological	88
University, Anantapuram	
Jawaharlal Nehru University	1004
Jaypee University of Engineering & Technology, Guna	11
JECRC University	0
JSS University	14
Kannur University	69
Karnataka Veterinary, Animal and Fisheries Sciences University	102
Karunya University	40
Krishna Institute of Medical Sciences University	1
Kurukshetra University	51
Lakshmibai National University of Physical Education	102
Madhya Pradesh Bhoj (Open) University	1
Magadh University	2
Maharaja Sayajirao University of Baroda	80
Maharishi Markandeshwar University	90
Maharshi Dayanand University	213
Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya	1
Manav Rachna International University	1
Mangalore University	4
Manipur University	21
MATS University	2
Mewar University	0
Mohan Lal Sukhadia University	1
Nagaland University	0
Netaji Subhas Open University	1
North-Eastern Hill University	41
North Maharashtra University	1
Pandit Dwarka Prasad Mishra Indian	1
Institute of Information Technology, Design and Manufacturing	
Patna University	2
Periyar University	47
Prist University	11

Punjabi University	335
Rajiv Gandhi University	0
Rashtrasant Tukadoji Maharaj Nagpur University	1
Sant Gadge Baba Amravati University	144
Sardar Patel University	83
Saurashtra University	252
Shivaji University	183
Shoolini University of Biotechnology and Management Sciences	1
Shri Mata Vaishno Devi University	13
SNDT Womens University	83
Sri Krishnadevaraya University	8
Sri Ramachandra Medical College and Research Institute	44
SRM University	38
Suresh Gyan Vihar University	37
Swami Vivekananda Yoga Anusandhana Sansthana	22
Tamilnadu Physical Education and Sports University	19
Tata Institute of Social Sciences	38
Teri University	25
The Gandhigram Rural Institute	4
The Tamilnadu Dr Ambedkar Law University	2
Tripura University	6
University of Calcutta	1
University of Delhi	78
University of Jammu	0
University of Kashmir	35
University of Lucknow	1
University of Mumbai	1
University of North Bengal	1
University of Rajasthan	0
Utkal University	2
Veer Narmad South Gujarat University	49
Vel Tech Dr. R R & Dr. S R Technical University	1
West Bengal University of Technology	5

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Table-2 shows the full detail of all Indian Universities participation upto Jan-2014. Some Universities have zero submission like Bangalore University, Dr. Ram Manohar Lohia Avadh University, Gulbarga University, Jamia Milia Islamia University, Kuvempu University, Lovely Professional University, Madurai Kamraj University, Maharshi Dayanand Saraswati University, Maulana Azad National Urdu University, Sri Venkateswara University, Allahabad University, Annamalai University, Babasaheb Bhimrao Ambedkar University, Banasthali University, Berhampur University, Deendayal Upadhyaya University, Dr. Harisingh Gour

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Vishwavidhyalay, Hemwati Nandan Bahuguna Garhwal University, JECRC University, Mewar University, Nagaland University, Rajiv Gandhi University, University of Jammu and University of Rajasthan. All these above 23 Universities have zero result submission.

8. CONCLUSION

Electronic publication can make works more accessible to students, researchers, and others who lack the time, search capabilities, finances, or other resources to locate them in traditional print formats, the system works only if they have access to the necessary computer resources and know-how. As we move beyond thinking of scholarship as print-based, however, we need to consider how we make our works of scholarship available. We need to consider how we can foster scholarship that is innovative as well as substantive. Print forms also have limitations: they cannot include multimedia elements, they cannot include interactive elements, and accessing them through interlibrary loans or repositories such as UMI can be time consuming, expensive, and limiting. Just as the invention of the printing press wrought changes in how scholarship was produced and disseminated, technological innovations are having an impact on our conceptions of reading, writing, research, and publication. Electronic theses and dissertations are only one small part of the move to make information available through electronic means to as wide an audience as possible, and to allow scholars to continue to do what they have always done: participate in the creation of knowledge. In India Universities should be encouraged to participate in Shodganga ETD project for the benefit of users across India and Globe as well.

9. LIMITATIONS OF ETD,S

Like print, electronic publication has limitations:

- PDF files can be created and read only with Adobe software. If the Adobe reader becomes the standard for publication of ETDs, there is no guarantee that Adobe will continue to offer it free. That could mean that either scholars will again have to face cost prohibitions or that libraries will have to pursue other means of making ETDs freely available.
- Learning to use markup languages such as SGML adds additional layers of complexity to the already complex task of producing scholarship.
- Access to technology is still limited, limiting the availability of ETDs to some scholars.
- The costs of gearing up, including the costs of training scholars, researchers, and staff to implement the ETD initiative, are substantial.
- Access to hardware and software, access to telephone connections, and knowledge of protocols can limit access to important information if it is available only online

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