

## E-Resources Management with Special Reference to Pondicherry University Library

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### Abstract

E-resources play a important and essential boon for research scholar in the higher education. particularly E-Journals are online Journals and explains its characteristics, its History, various types of E-journals and detailed steps involved E-journals on the web and benefits of E-journals and finally various e-resources online subscribed by pondicherry library and the benefits gained to the user community and also user statistics reveals the increase the usage of E\_resources and created new awareness for the usage of E-Journals in the minds of the user communities.

**Keywords:** Not Provided

### Introduction

Knowledge is expanding at lightening speed. Students need to learn more, better and faster. Teachers should use innovative methods for teaching. Technology plays a crucial role in all the sphere of library activities today. The challenges posed by the advances in the field of information and communication technology, with the exponential growth in the size of storage, a phenomenal increase in the processing speed, decreasing cost of hardware and user friendly software, the technology provides ample of scope for new services and products. Thus E-Journals play a vital role in the changing scenario of libraries and information others. In 2004, Librarian Alireza Noruzi recommended applying Ranganathan's Five Laws to the Web in his paper "Application of Ranganathan's Laws to the Web"

- 1 Web resources are for use.
- 2 Every User his or her web resources.
- 3 Every web resource its user.
- 4 Save the time of the User.

5 The web is a growing organism.

### *Type of E-Resources*

1 Online e-resources, which may include:

- E-Journals (Full text & Bibliographic)
- E- Books
- Online Databases
- Websites

2 Other Electronic Resources may Include:

- CD Rom –Diskettes
- Other portable computer portable databases.

### *What is E-Journals?*

### *Definition*

Electronic Journals may be defined broadly as any serial publications viz Journal, magazine, newsletter in digital format and made available on CD-ROM, Online systems and in the Internet has become primary medium for e-journals today. Based on the level of content, e-journal can be classified as scholarly research Popular (general public) and Industry or trade Journals.

Lancaster(1995) suggests that the Electronic Journals is created for the Electronic medium and is available only in this medium.

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### *Characteristics of E-Journals*

- i. Issue include graphics, multimedia or links to other internet resources.
- ii. File Structure is hierarchical and uniform.
- iii) E-Journals include personalized service such as e-mail alerts.
- iv. E-Journals is accessible on web & online archives
- v. E-Journals issues and articles can be used by the user online and Print copies.

### *History of E-Journals*

E-Publishing is two decades old. The American Chemical Society was the first professional body to publish their journals in electronic form in 1983. The American Chemical Society, the Institute of Electrical and Electronics Engineers and the Institute of Engineers offer their prestigious journals in electronic form. The Online Computer Library Centre provides their Journals only through electronic form. The Electronic Journals Online service provides peer reviewed journals online, free of cost. Viz World Scientific, Singapore.

Individuals, Universities and research centers can access e-journals through net on the basis of payment and on agreement regarding the copyright. Viz [www.sciencedirect.com](http://www.sciencedirect.com)

### *Types of E-Journals*

#### *Free Journals*

Access to the Journal is not dependant on a subscription membership in an organization. Viz. [www.Dlib.org](http://www.Dlib.org)

#### *Subscription based Journals*

##### *Require Payment*

##### *a) Free online against Print Journals*

Viz. American Journal of Physiology. [www.ajpcon.physiology.org](http://www.ajpcon.physiology.org)

Current year access only. Current twelve rolling period. Achieve access.

##### *b) Online only Journals*

It indicates online Journals only and there no print counterparts.

Viz. [www.jop.org/Journals/itJTI](http://www.jop.org/Journals/itJTI)

##### *c) Pay-Peer-View Journals*

Any single article can be viewed /downloaded by paying additional amount.

Viz [www.ddj.com/store/](http://www.ddj.com/store/)

##### *d) Virtual Journals*

Journals dealing on specific topics are grouped and access to them is provided.

Viz. [www.press.unich.edu/jep/](http://www.press.unich.edu/jep/)

### *Steps Involved in Accessing E-Journals on the Web*

- Connect the Journal website using its site address (URL).
- Select an issue, browse the table of contents.
- Authentication (user id,password/validation).
- Online registration for initiating online access by providing the customer\_id
- Range of IP numbers need to be mentioned in the online incense agreement form. .
- Selection of an article for viewing abstract /full text. They may be an text or have format. PDF
- Search Title of Content /Bibliographic record and link to full text article Viz. ISI's Web of Science.
- Many free journals also require registration for online access.

Access requirements: Good ban width, laser printing for taking print copies of select articles in pdf or html formats, access points depend on the size of the organization and the number of users.

### *Major Publishers of Scholarly E-Journals*

Many of the major scholarly societies/publishers have made their journals available online.

- Viz. American Physical Society: [WWW.aos.org](http://WWW.aos.org)
- American Chemical Society: [WWW.acs.org](http://WWW.acs.org)
- American Medical Association: [WWW.amaassn.org](http://WWW.amaassn.org)
- Elsevier Science: [WWW.elsevier.com](http://WWW.elsevier.com)
- Cambridge University Press: [WWW.cup.org](http://WWW.cup.org)

### *Benefits of E-Journals*

- 1 The Subscription allows remote access.
- 2 More than one user at a time can use E-journals simultaneously.
- 3 Multidimensional features of E-journals encourage the users to use them round the clock.
- 4 E-journals are flexible and do not require physical processing, storage space and even environmental valuable.
- 5 Access to archival issues is available.

## 6 Dual Publishing is another added advantage.

*E-Journals Boon for Research Scholar in Pondicherry University Library*

Pondicherry University is a Central University established by an Act of Parliament by the GOVERNMENT of India in October 1985 and recognized by the UGC under Section 2(i) and 12(b) of the UGC Act, 1956. It is affiliating University with a jurisdiction spread over the Union Territories of Pondicherry, Lakshwadeep and Andaman and Nicobar Islands. It is first university in the country to introduce choice based credit system(CBCS) with semester scheme. The University has been reaccredited with 'A' Grade by NAAC with regard to the students' friendly learning environment, good infrastructure, modern amenities, excellent teaching


and the supportive non-teaching fraternity. The University has three campuses. The main campus is located at Puducherry with 800 acres of lush-green Wi-fi enabled area, housing 15 Schools, 37 Departments, 10 Centres and 2 Chairs, offering over 144 PG & Research programmes. Other two smaller campuses are located at Port Blair and Karaikal (about 150 kms. from Puducherry).

*University Central Library*

The University Library was established on 11<sup>th</sup> September on 1986. It moved to an independent building in June 1990 with a carpet area of 31,204 sq.metres. Library functions from 8.30a.m. to 10.00p.m. on week days and from 9.30a.m. to 5.30 p.m. on week-ends.8.30 a.m. to 12 p.m. during period of examinations.

*Library Collection*

Library Collection		Data as on 30.09.2015
1.	<b>Total Library Collections (Print + E-Resources)</b>	<b>(211082 + 168730)=379812</b>
	<b>Total Library Collections (Print)</b>	<b>211082</b>
	Total no. of Books (including 942 Major Reference Works)	202889
	Total no. of Ph.D. Theses	779
	Total no. of M.Phil. Dissertations	4962
	UN Documents	2452
	<b>Total E-Resources</b>	<b>168730</b>
	E-Books (including 4413 Major Reference Works)	144443
	E-Journals	23350
	E-Databases	41
	E-Theses	896
2.	<b>Total Journals (Print + E-Journals)</b>	<b>(12773 + 23350)=36123</b>
	<b>Total Journals (Print)</b>	<b>12773</b>
	Current Subscription	240
	National	101
	International	139
	Back volumes	12533
	<b>Total E-Journals</b>	<b>23350</b>
	UGC INFONET	8785
	PU Subscription	14565
3.	<b>E-Resources Usage:- Jan - Dec 2014</b>	<b>1120520</b>
4.	<b>Details of Publications</b>	<b>Source: SCOPUS</b>
	a) No. of Publications	<b>3228</b>
	b) <i>h</i> -index	<b>57</b>
	c) Citation Index (CI)	<b>7.39</b>

**UGC - Infonet e-Journals Archive** 

- American Institute of Physics
- Nature
- Oxford University Press
- Royal Society of Chemistry
- ScienceDirect (Basic Science Collection)
- SIAM Locus

The Library is fully automated. with the introduction LIBSYS-4 (Rel 5.7.2)Software Package in the year 1997 and now the latest version of 7 which have been modified recently and also last year

November, 2012 CCTV and RFID have been introduced in the central library. All the existing housed in the stack and reference section have been tagged and location section have been completely


identified. The University Portal is created for easy access to Electronic information resources for the staff, scholars and student of Pondicherry University. The library is fully equipped with an online public access catalogue for looking into the collections under the intranet and also through website. A good internet browsing hall is available for all on-campus students to access internet resources. A separate web link is available for library users with all details of online resources accessible to authorized users.

#### *UGC Infonet E-Journals*

The University Grants Commission has initiated a

#### *UGC-INFONET Digital Library Consortium*

The List of e-resources provided for 2015 are as follows

- 
- American Chemical Society Video Tutorial 
  - American Institute of Physics
  - American Physical Society
  - Annual Reviews
  - Cambridge University Press
  - Economic and Political Weekly
  - Emerald Video Tutorial
  - Institute of Physics
  - JSTOR Video Tutorial
  - Nature Publishing Group (NPG)
  - Oxford University Press
  - Portland Press
  - Project Euclid
  - Project Muse
  - Royal Society of Chemistry
  - ScienceDirect | Tutorial | Video Tutorial For Non-available Articles
  - Society for Industrial and Applied Mathematics
  - Springer Link
  - Taylor and Francis Journals
  - Wiley Blackwell
  - UGC - Infonet e-Journals Archive
  - American Institute of Physics
  - Nature
  - Oxford University Press
  - Royal Society of Chemistry
  - ScienceDirect (Basic Science Collection)
  - SIAM Locus
- 

#### *CD ROM Journals Database Service*

The University Library has acquired two numbers of CD-MIRROR server. Both the Abstract/Index CD-ROMs and Full Text CD-ROMs of the Journal Databases are mirrored in the CD-MIRROR servers. Around 2000 journals from various subjects are

programme to provide electronic access over the internet to scholarly in all areas of learning to the University sectors in India.

The Programme is wholly funded by the UGC and administered and monitored by INFLIBNET. All Universities which come under UGC's purview will be members of the programme and it will be gradually be extend to college as well. Pondicherry University has been selected as one among twenty two universities whose contents would be included in the JCCC (J-Gate Custom Content for Consortia) for Data interchange/resource sharing through INFLIBNET.

covered by the CD-ROM databases.

The users can browse the databases through Keywords, Publication, Author, ISSN, etc. This facility can be availed through the campus-wide Intranet also. The following CD-ROM journals databases are available with the Library.

CD-ROM Database	Period
General Periodicals on Disc (GPO)	1988-1997, 2000-2002
Business Periodicals on Disc (BPO)	1991-1997, 2000-2002
Social Science Index	1994-1997, 2000-2002
INSPEC - Physics	1996-1997, 2000-2002
Life Science Collections	1992-1996
Energy and Environmental	1984-1996
Ulrich+	1996
Biological Abstracts	1995-1997

*Elsevier Science Direct Online Journals on Payment basis*

Thanks to our Ex Vice chancellor Dr.A.K. Bhatnager initiative on the introduction of the science direct in the year 2004, Seven major disciplines have been subscribed. online journals including back files of the same disciplines. namely Computer Science, Mathematics, Physics and Astronomy, Materials Science, Biochemistry, Genetics and Molecular Biology, chemistry and Earth Sciences to 763 current and 623 archival journals provided by Elsevier Science Direct and can be accessed via intranet.

*Ebsco Publishing Online E-Journals on Payment basis*

EBSCO Publishing Ltd.,- an online publishing company of U.S.A. provides access to the electronic journals databases viz. "Business Sources Premiere"(8500 full text) and "Academic Search Premier"(1300 full text) and the total number of 9800 full text and 2300 abstracts supplied by the EBSCO. It is exclusively belongs to Humanities and Social Sciences.

SCOPUS (Payment) – As the largest abstract and citation database of peer review research literature and quality web sources. Abstracts from 16000 + Journals covering the abstract of the discipline from Health sciences (6800 Titles), Life Sciences(4300 titles), Physical sciences(7200 titles) and Social sciences & Humanities (5300 titles)

*Annual Reviews Archives (Perpetual Access/Backfiles)*

Annual Reviews (Electronic Back Volumes) Archives covering a comprehensive collection of Annual Reviews back Volumes with content spanning from Biomedical Sciences, Physical Sciences and Social Sciences dating back to the very first volume of Annual Reviews in 1932 and upto 2002 on perpetual access.

*U.N. Depository*

The Dag Hammarskjold library of the U.N. Secretariat in New York has arranged for the distribution for the U.N. Documents and publications to users and Research Scholars around the world through its depository libraries since 1946. There are about 405 depository libraries in 145 countries and 16 of them are in 13 cities of India. Pondicherry University library has the honour of being one of the 16 U.N. Despository libraries in India.

*Library Annex*

An additional new building with 50,000 sq.ft. is opened recently to offer 24 hour reading facility, a

special section for the visually challenged, a children's library. A recent unique addition is a Bookshop cum Souvenir shop to cater to the requirements of the Students, Faculty and other staff.

*User Education on E- Journals*

Pondicherry Library has been subscribing E-Resources namely E-Books, E-Journals -Science Direct (online) Journals including Subject Back files and EBSCO E-Journals (online) for Humanities on Payment Basis, CD Rom Databases (Offline) and UGC Infonet E-Journals on free of cost from 2004 onwards. In the beginning, the cost of payment online subscriptions have crossed more than 75 lakhs. These E-Resurces can be seen not only from University Library but also to all the Schools/Depts/Centre through campus Intranet . But however, we have received poor response from the user Statistics provided by M/s Elsevier India (P) Ltd., New Delhi. Now the cost of E-resources has crossed more than one crore in the library.

Students should be trained on how to get access to these electronic sources b) search effectively in order to find what they are looking for and c) retrieve the information they need in the education session students could access an electronic journal and learn about document delivery services, the FTP and the printing facilities of the library. They can also access an electronic book database in order to get an idea of what it offers and how it works.

There are methods of creating awareness and training and teaching the users need namely Internet, Orientation Programme methods, Printed Guides, one to one instruction Lectures and courses and online instruction. Library staff is responsible both for management of electronic sources as well as for the support and education of the students. Experience. Librarian must have through knowledge and experience. The continuing education with trainings, conferences and new readings is essential for the academic librarian to stay "alive" and useful in the world of information and library services.

Evaluation should be done to the instruction that is provided to the students on how to use the electronic information sources in order to indicate any possible weaknesses. The suggestion of the students should be written down and be considered as very important for the library's future decision making on electronic sources, about the time they spend the time as well as about the effectiveness of the education and instruction given to the students can be collected the following methods namely opinion leader interview, Electronic statistical data and globally the observation

and experience of the library staff that works at the information desk should be considered as very important for such a research..

### Conclusion and Recommendation

Increasing access to information has led to a shift in the traditional role of both the library and librarian. For effective dissemination of information online journals make their appearance on the net much before the print copies reach the subscribers. Therefore E-Journals is such a source, which reaches the user in right time at any place with all information.

On the basis of the above findings, there are few methods to take effective steps for providing electronic information sources to the students. Viz:

- 1 Find the most appropriate electronic information sources for the educational needs of the students according to university curriculum.
- 2 Provide the necessary equipment and access to electronic sources for all the Research Scholars of the University.
- 3 Provide to students the most appropriate educational method (or Orientation Programme) in order to educate them effectively.
- 4 Evaluate the electronic sources and the education providing to students.
- 5 Electronic information sources can be a powerful tool for all the members of the academic community if they learn to use it effectively. Electronic sources such as OPAC, online databases, electronic documents and Internet are essential to every student research.
- 6 The efforts of UGC-INFONET and INDEST-AICTE Consortium are appreciable and will definitely strength higher education system in India free or highly subsidized access to scholarly e-resources will help educational institutions in fulfill their mission into reality.

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