

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Library Philosophy and Practice (e-journal)

Libraries at University of Nebraska-Lincoln

2020

Use of e-journals under INFLIBNET in The University of Burdwan (2015-2019): Analysis with INFISTATS

DEBDAS MONDAL

DAV MODEL SCHOOL, IIT KHARAGPUR, debdas.mondal507@gmail.com

Samayita Dutta

Deshabandhu Mahavidyalaya, dsamayita@gmail.com

Follow this and additional works at: <https://digitalcommons.unl.edu/libphilprac>



Part of the [Library and Information Science Commons](#)

MONDAL, DEBDAS and Dutta, Samayita, "Use of e-journals under INFLIBNET in The University of Burdwan (2015-2019): Analysis with INFISTATS" (2020). *Library Philosophy and Practice (e-journal)*. 4365. <https://digitalcommons.unl.edu/libphilprac/4365>

Use of e-journals under INFLIBNET in The University of Burdwan (2015-2019): Analysis with INFISTATS

Debdas Mondal
Librarian
D.A.V Model School
I.I.T Kharagpur
debdas.mondal507@gmail.com

Samayita Dutta
Librarian
Deshabandhu Mahavidyalaya
Chittaranjan-713331
dsamayita@gmail.com

Abstract

The e-journal facility introduced in Burdwan University for its scholars is known as INFLIBNET which is under the e-sodhsindhu consortium. INFLIBNET e-journal provides with high quality content among University libraries. This study shows the popularity of e-journal with the help of INFISTATS in the optional usage period during 2015-2019. JSTOR had the maximum usage (26.8%) of total download over the period 2015-2019. 7 of the top listed e-journals had the highest percentage of use (86.33%) proving that the popularity of e-journals is in growing use in the University of Burdwan.

Keywords: INFLIBNET; e-Resources; e-journal; Burdwan University.

Introduction

Universities are appraised as the highest seats of learning. Therefore, university teachers are stand at higher support than the teachers of other educational institutions. University teachers are predicted to teach post-graduate students, guide and research scholars as well as to provide to increase the outlook of their subject disciplines. Developments in information and communication technologies (ICT) and hurricane to electronic information resources make these attempts easier. In 2003, UGC (University Grants Commission) and INFLIBNET jointly launched UGC-Infonet Digital Library Consortium for providing excellent quality e-resources. The consortium became much approved because it linked all the universities in the country with the state-of-the-art technology with distinctive access to 5,790 journals for 160 universities covered by UGC's 12B

Act. Based on an expert committee's advice, MHRD merged UGC-Infonet Digital Library Consortium, N-LIST and INDEST-AICTE Consortium and changed its name to E-ShodhSindhu Consortium for Higher Education. The e-ShodhSindhu will be sustained to provide current and authentic access to more than 15,000 core and peer-reviewed journals and various bibliographic citations in different streams. Currently, 139 State Universities, 40 Central Universities, 22 Deemed Universities, 15 law schools, 6 UGC IUCs, 72–Technical Institutions support by AICTE and 60 CFIs are members of this e-ShodhSindhu

University of Burdwan Library

Established in 1960, Burdwan University is one of the West Bengal-India's oldest universities. The University Library is the knowledge center for the entire university-related academic group. INFLIBNET has played a significant role in initiate the University of Burdwan library users to the e-journal facility. The University Library was established in 1960 across with the establishment of the University to meet the academic and research desired of teachers, research scholars, and students. Since the University commencement library has served the different needs of the university group. The library has accelerated a rich collection in all branches of Science, Arts, Commerce, Law, Computer Science, and Management. The library is a member of the e-shodsindhu consortium for online subscriptions of journals. The university library connected with LAN on the university campus; accredit the academic group of various branches to access online documents and information from their house. The library serves as a resource station for all scholars and has a print collection of around 3, 00,000 textbooks including back volumes of journals, theses, and dissertations.

Objective of the study:

- To make an overview of the trend of total downloads of e-journals under INFLIBNET by the University of Burdwan in the last 5 years from 2015 to 2019.
- To find out the usage of respective e-journal under INFLIBNET by The University of Burdwan over the period 2015-2019.
- To find out the list of e-journal according to their percentage of total downloads in each corresponding year and their related comparison.
- To find out the usage of the bibliographic databases in terms of total downloads & percentage of total downloads over the same period.
- To know the maximum and minimum download period during the last five years
- To know the maximum e-resources used by the University of Burdwan respective user group.
- To know the year wise total usage of e-journals of the University of Burdwan under INFLIBNET during last five years

Literature Review:

Sinha¹, et al. reveal that the utilize of the internet and electronic resources have had a prime influence on the research and growth work of Assam University. The immediate advancement in ICT has accelerated the meeting of new electronic devices and formats. The information has been embedded into various types of electronic resources in a different method and form.

Pandey⁸, his paper presented in the research study, the impact of INFLIBNET on the development of university libraries in a study conducted by the researcher in selected university libraries in U.P. The impact of INFLIBNET is sustained by coordinate surveys in select university libraries in Uttar Pradesh in northern India. The study discloses that the majority of libraries have used INFLIBNET's services to reach their automation and e-resource requirements.

Soni & Shrivastava⁷ assemble the survey was an endeavor to regulate and regulate the current status of awareness, accessibility and use of electronic resources among library and information science research scholars at Jiwaji University Gwalior. The study managed to recognize the challenges, benefits, and progress that research scholars obtain while retrieving e-resources.

Trimukhe⁶ reveals the resources of data have also progressed in the form of e-resources like publisher's database, e-Journals, e-books, consortia of special libraries, etc. To encourage the e-resources there are different agencies of the Government of India who supply funds and subsidies to the educational institutes to expand their collection of digital books and to expand the digital form of education.

Methodology:

Until 2020, data has been collected directly from the infiStats website (usage statistics portal for e-resources) and few data collected from the INFLIBNET website, University staff, INFLIBNET Annual Report.

Data Analysis of the study

Table 1: No of downloads over the period in The University of Burdwan

Name of Journal	Year Wise No of Download				
	2015	2016	2017	2018	2019
JSTOR	15755	17500	15110	21929	5157
Springer Link	14972	13336	10693	7189	9430
American Chemical Society	10040	5469	8118	7207	6889
Royal Society of Chemistry	6454	3151	3592	2439	543
Wiley Blackwell	6129	5802	5790	6276	-
Taylor & Francis	3448	3860	3596	7626	4282

Oxford University Press	1779	1770	1206	2660	2164
APS	1613	1233	785	883	856
Nature	1493	2516	2224	2439	2619
American Institute of Physics	1306	943	1269	1190	1139
Institute of Physics	1115	1367	1581	847	713
Emerald Publishing	925	1019	1388	1615	314
Project Muse	648	1005	592	799	11
Cambridge University Press	370	188	-	-	-
Annual Reviews	125	332	286	193	283
AIP Nov Dec	-	56	-	-	-
Palgrave Journals	-	-	-	4	-
Nature-MP 8-Jan-Aug	-	-	-	1894	-

Data Source: Inflibnet Usage Statistics Portal <https://infostat.inflibnet.ac.in/>

Table2: Year- wise total download in The University of Burdwan

Year	Total Download
2015	66172
2016	59547
2017	56230
2018	65186
2019	34400

Data Source: Inflibnet Usage Statistics Portal <https://infostat.inflibnet.ac.in/>

Table 3: Data analysis from the year 2015-2019

Total download	2,81,535
Mean download	56,307
Highest download	66,172
Lowest download	34,400
Range	31,772
Median	59,547
s.d	11,546.2119

We have calculated the Mean, Range, Median and Standard Deviation of the values of total download of each year (from the table 2: Year wise total download in The University of Burdwan). $x_1=66,172$, $x_2= 59547$, $x_3= 56, 230$, $x_4=65,186$, $x_5= 34,400$. $n=5$

Mean download = $\mu = x_1+x_2+x_3+x_4+x_5 / n =56,307$. Range = Highest download-Lowest download= $66,172-34,400=31,772$. Median value is the value corresponding to middlemost value

after arranging the values in increasing order of magnitude. $Sd = \sqrt{1/n \sum_i^n (x_i - \mu)^2} = 11,546.2119$.
 Where the total download between the period is $\sum x = 2, 81, 535$.

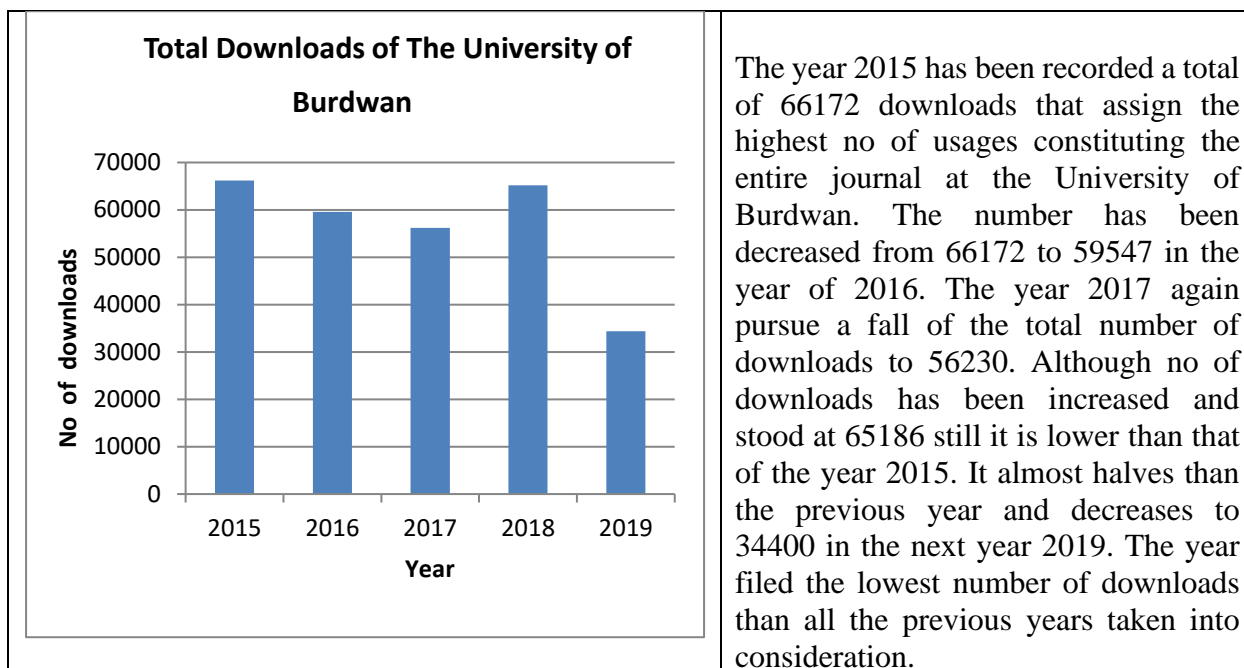


Table 4: List of journals according to no of downloads over the period 2015-2019 in The University of Burdwan

SL No	Name of Journal	No of downloads	Percentage of downloads in total
1	JSTOR	75451	26.80
2	Springer Link	55620	19.76
3	American Chemical Society	37723	13.39
4	Wiley Blackwell	23997	8.52
5	Taylor & Francis	22812	8.10
6	Royal Society of Chemistry	16179	5.74
7	Nature	11291	4.01
8	Oxford University Press	9579	3.40
9	American Institute of Physics	5847	2.07
10	Institute of Physics	5623	1.99
11	APS	5370	1.90
12	Emerald Publishing	5261	1.86
13	Project Muse	3055	1.08
14	Nature MPS Jan Aug	1894	0.67
15	Annual Review	1219	0.43
16	Cambridge University Press	588	0.20
17	AIP Nov Dec	56	0.02
18	Palgrave Journals	4	0.00

Data Source: Inflibnet Usage Statistics Portal <https://infostat.inflibnet.ac.in/>

Table 4 reveals that the journal JSTOR topped the list with a total of 75451 no of download during the period 2015 -2019. After that comes the name of the journal Springer Link and a total of 55620 no of download has been taken place. American Chemical Society is the 3rd listed journal having 37723 no of download in total. Wiley Blackwell and Taylor & Francis took the 4th and 5th positions in the ranked list with a total of 23997 and 22812 no of download respectively. JSTOR constitutes 26.8% of total downloads 281535 over the year 2015-19. The Palgrave journal has a minimum percentage of almost 0% of total downloads. Table 5: List of Journals according to the percentage of total downloads in respective years

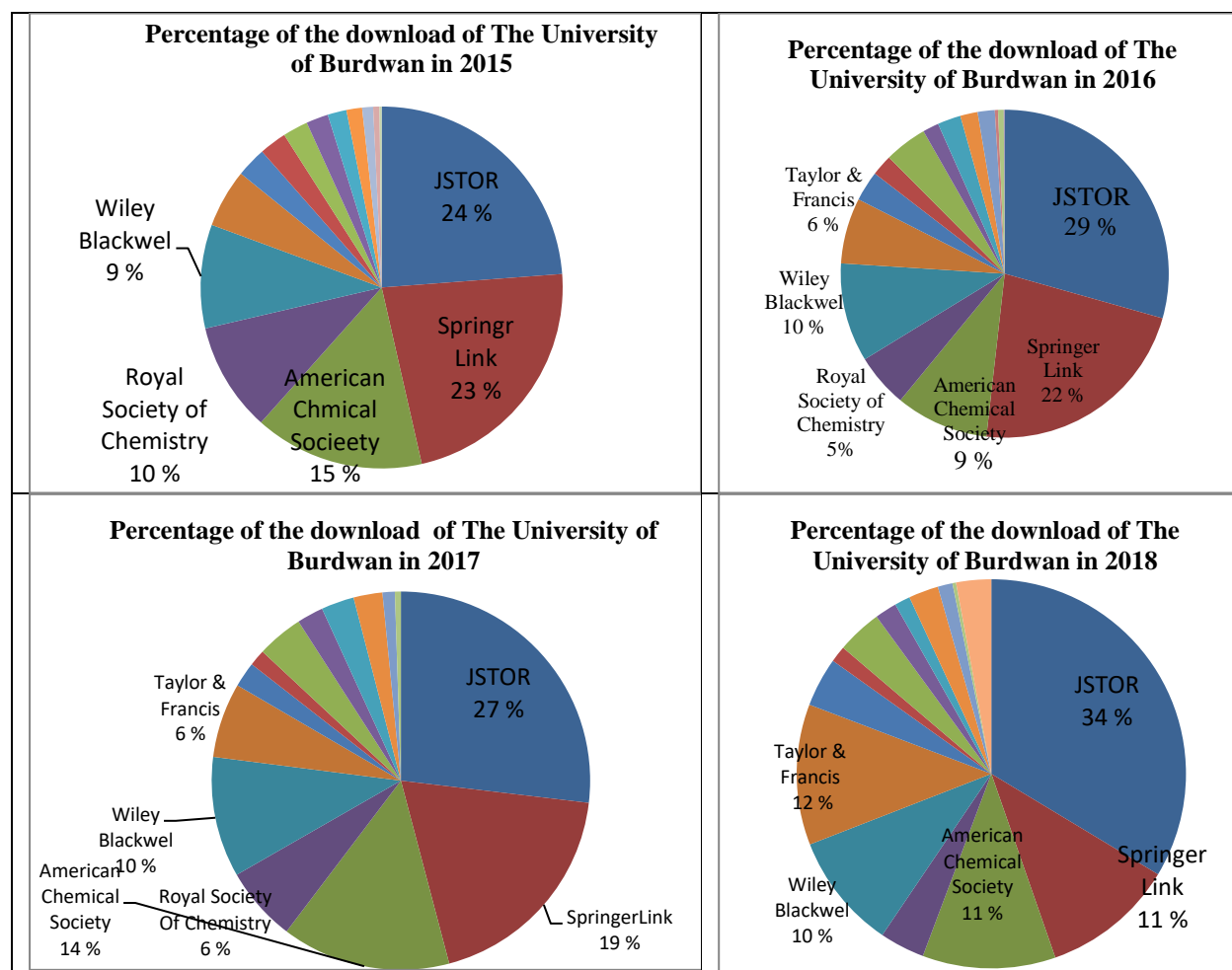
Table 5 Percentage of the download of The University of Burdwan in 2015 to 2019

SL NO	Name of Journal	2015	2016	2017	2018	2019
1	JSTOR	24	29	27	34	15
2	Springer Link	23	22	19	11	27
3	American Chemical Society	15	9	14	11	20
4	Royal Society of Chemistry	10	5	6	4	2
5	Wiley Blackwell	9	10	10	10	-
6	Taylor & Francis	5	6	6	12	12
7	Oxford University Press	3	3	2	4	6
8	APS	2	2	1	1	2
9	Nature	2	4	4	4	8
10	American Institute of Physics	2	2	2	2	3
11	Institute of Physics	2	2	3	1	2
12	Emerald Publishing	1	2	2	2	1
13	Project Muse	1	2	1	1	0
14	Cambridge University Press	1	0	-	0	-
15	Annual Review	0	1	1	0	1
16	AIP Nov Dec	-	0	-	-	-
17	Palgrave Journal	-	-	-	0	-
18	Nature MP 8 JAN -AUG	-	-	-	3	-

Data Source: Inflibnet Usage Statistics Portal <https://infostat.inflibnet.ac.in/>

Table 5 reveal that JSTOR topped across all the year except the year 2019 in terms of the percentage of total downloads. Springer Link got 27 % in the year of 2019 and ranked first. The journal JSTOR gets 34 % in the year of 2018 that is not the highest percentage occur in that year but remains the highest percentage throughout the year 2015 to 2019. Springer Link being 3 times 2nd largest percentage with 23, 22 and 19 % of total downloads in the year 2015, 2016 and 2017 respectively. It is observed that Taylor & Francis the 2nd ranked journal based on the percentage of downloads having 12 % of total downloads differ significantly lower than the 1st listed journal JSTOR having 34 % of total downloads. The journal American Chemical Society and the journal

Royal Society of Chemistry having area of coverage of Chemistry and Chemical Sciences; the former took 3rd position in the year of 2015, 2017 & 2018 with 15 %, 14% & 11 % of total downloads respectively whether Royal Society of Chemistry got 10% in the year of 2015 & after that the percentage of downloads has been declined over the year. American Chemical Society ranked 2nd with 20 % of total downloads in the year 2019. The journal Wiley Blackwell have been got around 10 % of total download during 2015-2018 but in 2019 it did not get any attention. Among the other important journal, the percentage of total download has been increased from the year 2015 to the year 2019 for the journal Oxford University Press, Nature.



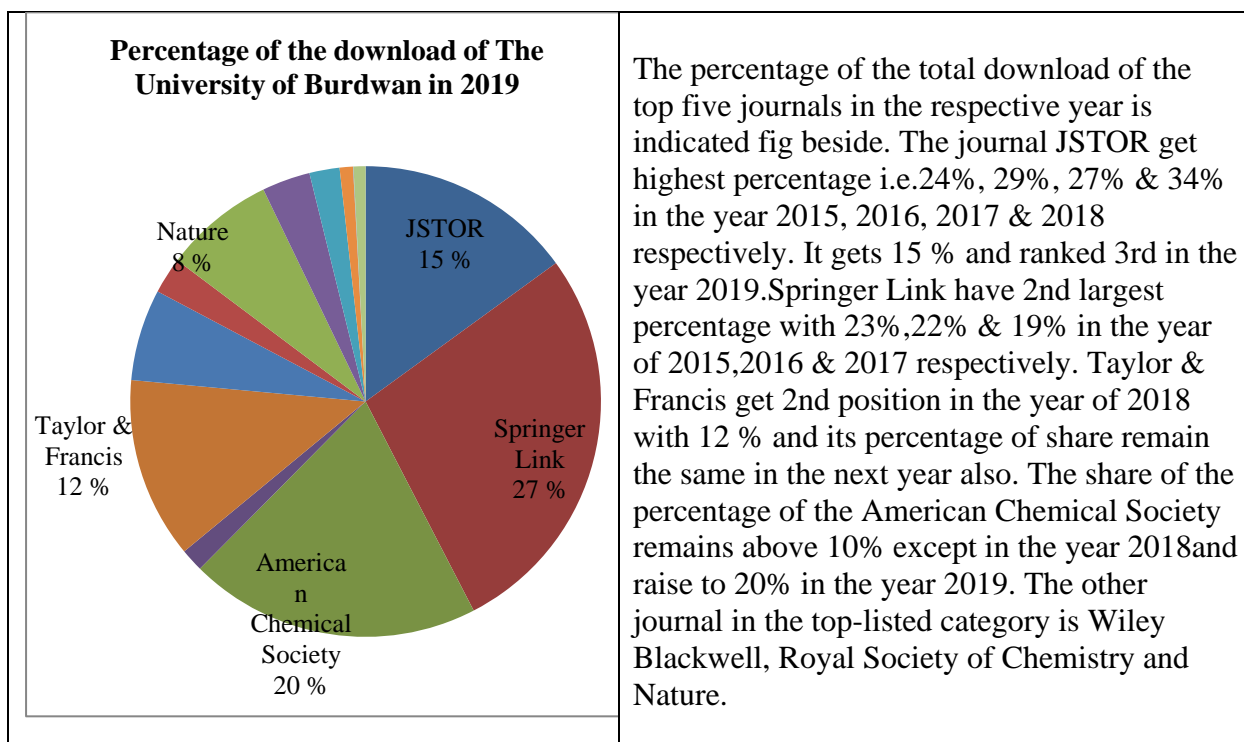


Table 6: Total no of downloads of the databases in the University of Burdwan from 2015-19

Name of database	Year wise no of downloads				
	2015	2016	2017	2018	2019
Web of Knowledge	81	342	664	1885	1980
MathSciNet	1907	7395	2899	-	-
JCC	69	144	3587	261	2624

Table 6 shows the percentage of downloads is highest i.e. 92.7% for MathSciNet in the year 2015 than the other two Web of Knowledge and JCC. MathSciNet receives again a large percentage of 93.83% & 80.37 % of the total download of the year 2016 and 2017 respectively. The percentage of downloads increases for the database Web of Knowledge in the year 2018.87.84 % of total downloads has been taken place whether for MathSciNet no download exists for the year 2018 and 2019. The percentage of downloads is lower for JCC throughout the year 2015-18. It receives 56.99% of total downloads in the year 2019.

Conclusion:

The usage of e-resources remains more or less the same over the period except the year 2019. It is notified that the number of downloads becomes relatively poor in 2019 than in previous years. The total download is fallen by 21,907 in the year of 2019 from the mean download. The range of the values of the observation of total downloads is 31,772 i.e. the difference of the total downloads is high. The number of downloads diminishes significantly for the journal JSTOR in the year of 2019 by 76.48 % than earlier the year 2018. No downloads are found in the year of 2018 & 2019 in the case of the databases MathSciNet although previously the download was high. It is necessary to find out the actual reason behind the decreasing nature of downloads and should take several attempts to promote the user group or researcher so that usage of the e-resources again can increase.

References

1. Sinha, M.K.; Singha, G. & Sinha, B. Usage of electronic resources available under UGC-INFONET digital library consortium by Assam University Library Users. 8th Int CALIBER - 2011, 489, 490-510.
2. Golwal, M.D.; Sonwane, S. & Vaishnav A. Use of electronic journals in Dr. Babasaheb Ambedkar Marathwada University, Aurangabad: A case study. 6th Int. CALIBER-2008., 2008, 700-707. <http://ir.inflibnet.ac.in/bitstream/1944/1317/1/75.pdf>.
3. M, K.K. Utilisation and satisfaction on UGC-Infonet e-Journals by faculty members and research scholars: A case study of University of Hyderabad, Hyderabad. 2018, 8(64344), 28-34.
4. Chand, P. & Arora, and J. Access to E-journals through UGC INFONET digital library consortium: A study of usage trends among the universities of North East India. 6th Conv. Plan 2008. 2008, (November 06-07), 387-399.
5. Kavithanjali, J. E – Resources: Their importance, Types Issues and challenges: An analysis, 2019, 6(1), 775-778.
6. Trimukhe, D.S. An analytical study of awareness of the e-resources and its uses in the educational institutes. 2019, 7(2), 121-129.
7. Soni, N.K.; Gupta, K.K. & Shrivastava J. Awareness and usage of electronic resources among LIS scholars of Jiwaji University, Gwalior: A survey. 2018; 38(1), 56-62.
8. Pandey, S.S. Impact of the services of INFLIBNET in the Uttar Pradesh University libraries: A study. 2018, 4(1), 1-11.
9. Khandare, R.B. & Sonwane, S.S. Library and information science e-Journals accessible under N-LIST consortium., 2017, 7(2), 8-15.
10. ANJALIAH, D.M. Digital information literacy among research scholars and students community at Dravidian University, Kuppam-Andra Pradesh (India): An exploratory study. IOSR J. Humanit. Soc. Sci., 2016; 21(09), 01-08. doi: 10.9790/0837-2109120108.
11. Imsong L. Usage of electronic- resources in academic libraries and role. 2016.