Full Length Research

Use of N-LIST Services by Constitute First Grade Colleges affiliated to Tumkur University, Tumkur: A Study

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The present study was carried out at First Grade Colleges such as Arts and Science discipline first Grade Colleges affiliated to Tumkur University. These studies aim to examine the purpose of use, types of services, level of satisfaction, problem faced while accessing, training/ orientation program and preferred external storage medium for storing information resources downloaded via N-LIST Services. For this purpose the researchers prepared a well structured questionnaire and interview schedule as a tool for data collection and same was analyzed and presented with useful percentage analysis and suitable table for presentation of data. The article summarizes the results highlighting the major findings, suggestions and conclusion.

Keywords: N-LIST Services; Academic Resources; Electronic Resources; Library Consortium, First Grade Colleges, Tumkur University.

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INTRODUCTION

N-LIST services are considered a vital part of academic college services in the 21st century. It has tremendously changed the way of seeking information towards electronic resources and services. It is today important to learn and know the assessing the use of N-LIST Services among the Faculties and Students. The study reveals that N-LIST Services are useful to academic users and elaborates on the problems faced while accessing and utilizing N-LIST Services. The study helps in planning, developing and extending the N-LIST Services to academic Colleges.

N-LIST stands for "National Library and Information services Infrastructure for Scholarly Content". The programme is funded by the MHRD to extend access to selected e-resources to colleges covered under Section 2F/12B of UGC Act. More than 6,000 colleges covered under Section 2F/12B of UGC Act. As on Jul 17 2013, a total number of 3375 colleges have registered

themselves with the N-LIST programme including 3072 Govt. / Govt.-aided colleges covered under the section 12 B/2F of UGC Act as well as Non-Aided colleges . Log-in ID and password for accessing e-resources has been sent to the authorized users from these 3072 colleges. All e-resources subscribed for colleges under the N-LIST Project are now accessible to these 3072 colleges through the N-LIST website (http://nlist.inflibnet.ac.in)

Being jointly executed by the UGC-INFONET Digital Library Consortium, INFLIBNET Centre and the INDEST-AICTE Consortium, IIT Delhi provides for i) cross-subscription to e-resources subscribed by the two Consortia, i.e. subscription to INDEST-AICTE resources for universities and UGCINFONET resources for technical institutions; and ii) access to selected e-resources to colleges. The N-LIST project provides access to e-resources to students, researchers and faculty from colleges and other beneficiary institutions through server(s) installed at the INFLIBNET Centre. The authorized users from colleges can now access e-resources and download articles required by them directly from the publisher's website once they are duly authenticated as authorized users through servers deployed at the INFLIBNET Centre (Ali and Nisha, 2011)..

OBJECTIVES OF THE STUDY:

The present study is an attempt to find out the accessibility of N-LIST Services by the Constitute First Grade Colleges affiliated to Tumkur University (Bhattacharjee, Sudip, Bhattacharjee, Sucheta and Sarmah, Mukut, 2011). The main objectives of the study are:
1.	To know the different types of N-LIST Services.
2.	To find the	purpose	of access of N-LIST Services
3.	To find out the problems faced	while accessing the N-LIST Services
4.	To find out the storage media format for accessing downloading information.
5.	To find out the Level of satisfaction of N-LIST Services

METHODOLOGY

The survey method was adopted, using questionnaire as a tool for data collection. A structured questionnaire was designed and distributed to the faculty and students of Tumkur University Constitute First Grade Colleges such as University Arts College and Univeristy ScienceCollege Out of 293 questionnaires were distributed among the faculty and students 231(78.83%) received back and they are using N-LIST Services. out of 44(73.33%) and

233 (80.25%) respondent from faculty and students. In addition to questionnaire method, interview schedule and observation method were also used to collect required information as a supplement to the questionnaire method to bring more clarity to the data which are essential and use for analysis and interpretation of data (Chikkamanju and Kumar, 2014).

ANALYSIS AND INTERPRETATION OF DATA

The data collected by using different methods were analysed, interpreted and presented in the following tables.

Demography characteristics of the study population

Category wise distributions of questionnaire regarding access to N-LIST Services, by the faculty and students of Constitute First Grade Colleges affiliated to Tumkur University, Tumkur has been summarized in Table 1.

Table-1 shows that the data regarding category wise respondents accessing N-LIST services. Total 293 questionnaires were distributed and 231 questionnaires were received back, amounting 78.83%. Among them 44 (73.33%) are Faculty members and 187(80.25%) are Student respondents.

Types of N-LIST services

The use of various types of N-LIST Services by the faculty and students of constitutes First Grade Colleges affiliated to Tumkur University, Tumkur has been summarised in the form of Table 2.

The Table 2 depicts that 190(82.25%) faculty and students use Economic and Political Weekly, followed by 159(68.83%) Indian Journals, 156(67.53%) E-resources for Universities (Web of science), 108(46.75%) Institute of Physics, 83(35.93%) American Institute of Physics, 72(31.16%) American Physical Society, 71(30.73%) Sage Publication eBooks, 54(23.37%) Annual Reviews, 50(21.64%) and only 02(00.86%) Institute of South East Asian Studies (ISEAS) Books.

The Table-2 also depicts that faculty and student's wise respondent's use of N-LIST services, the faculty members of University college use Economic and Political Weekly 31(70.45%), followed by 29(65.90%) Indian Journals, 21(47.72%) American Physical Society, and Royal Society of Chemistry, 20(45.45%) E-resources for Universities (Web of science) and only 02(04.54%) EBSCoHost-Net Library, Institute of South East Asian Studies (ISEAS) Books, where as 159(85.02%) Economic and Political Weekly, followed 136(72.72%) E-resources for Universities (Web of science) by 130(69.51%) Indian Journals, 96(51.33%) Institute of

Table-1. Demography characteristics of the study population

Category	Questionnaire		Percentage(%)
	Distributed	**Respondents**	
Faculty	60	44	73.33
Students	233	187	80.25
Total	293	231	78.83

Table 2. Types of N-LIST services

E-journals	Faculty (N=44)	Students (N=187)	Total (N=231)
American Institute of Physics	19(43.18%)	64(34.22%)	83(35.93%)
American Physical Society	21(47.72%)	51(27.27%)	72(31.16%)
Annual Reviews	16(36.36%)	38(20.32%)	54(23.37%)
Cambridge University Press	--	--	--
Economic and Political Weekly	31(70.45%)	159(85.02%)	190(82.25%)
Indian Journals	29(65.90%)	130(69.51%)	159(68.83%)
Institute of Physics	12(27.27%)	96(51.33%)	108(46.75%)
JSTOR	0(22.72%)	23(12.29%)	33(14.28%)
Oxford University Press	13(29.54%)	--	13(05.62%)
Royal Society of Chemistry	21(47.72%)	23(12.29%)	44(19.04%)
H. W. Wilson	04(09.09%)	17(09.09%)	21(09.09%)
Cambridge Books Online	06(13.63%)	22(11.76%)	28(12.12%)
E-brary	09(20.45%)	--	09(03.89%)
EBSCoHost-Net Library	02(04.54%)	23(12.29%)	25(10.82%)
Hindustan Book Agency	06(13.63%)	14(07.48%)	20(08.65%)
Institute of South East Asian Studies(ISEAS) Books	02(04.54%)	--	02(00.86%)
Oxford Scholarship	04(09.09%)	--	04(01.73%)
Springer eBooks	11(25.00%)	39(20.85%)	50(21.64%)
Sage Publication eBooks	09(20.45%)	62(33.15%)	71(30.73%)
Taylor Francis eBooks	12(27.27%)	29(15.50%)	41(17.74%)
Myilibrary-McGraw Hill	--	--	--
E-resources for Universities (Web of science)	20(45.45%)	136(72.72%)	156(67.53%)
Bibliographical databases (MathSciNet)	12(27.27%)	28(14.97%)	40(17.31%)

Note: Because of multiple choice options the percentage is exceeded to more than 100%.

Physics, 64(34.22%) American Institute of Physics, 62(33.15%) Sage Publication eBooks, and only 17(09.09%) H. W. Wilson, students' use of N-LIST services by constitutes colleges.

Learn to use N-LIST Services

Learn to use of N-LIST Services by faculty and students from Constitute First Grade Colleges affiliated to Tumkur

Table 3. Learn to use N-LIST Services

Learn to use N-LIST Services	Faculty (N=44)	Students (N=187)	Total (N=231)
Guidance from the Library staffs	20(45.45%)	122(65.24%)	142(61.47%)
Trial and error	11(25.00%)	18(09.62%)	29(12.55%)
Attending course, Trainings, Workshops and seminars	04(09.09%)	29(15.05%)	33(14.28%)
Self learning	16(36.36%)	21(11.22%)	37(16.01%)
Guidance from the Friends/colleagues	26(59.09%)	32(17.11%)	58(25.10%)

Note: Because of multiple choice options the percentage is exceeded to more than 100%.

Table 4. Purpose of use of N-LIST Services

Purpose	Faculty (N=44)	Students (N=187)	Total (N=231)
For ssignment	--	96(51.33%)	96(41.55%)
Reading/writing research papers	31(70.45%)	61(32.62%)	92(39.82%)
Preparing /accessing teaching resources	24(54.54%)	38(20.32%)	62(26.83%)
Prepare Project	12(27.27%)	21(11.22%)	33(14.28%)
Preparation for Seminar, conference and workshop	06(13.63%)	13(06.95%)	19(08.22%)
For collecting general information	03(06.81%)	47(25.13%)	50(21.64%)

Note: Because of multiple choice options the percentage is exceeded to more than 100%.

University, Tumkur has been summarized in the form of Table 3.

The respondents were asked how they learn to access to N-LIST services. The Table -3 depicts that 142(61.47%) faculty and students learn to use N-List Services through guidance from the Library staffs followed by 58(25.10%) of respondents were access to learn Guidance from the Friends/colleagues, 37(16.01%) respondents were access to Self learning. 33(14.28%) Attending course, Trainings, Workshops and seminars, and 29(12.55%) Trial and error The table-3 also depicts that 26(59.09%) faculty learn to use N-LIST Services from Guidance from the Friends/colleagues and 122(65.24%) students learn to Guidance from the Library staffs.

Purpose of use of N-LIST Services

The purpose of use of N-LIST services by faculty and

students of Constitute First Grade Colleges affiliated to Tumkur University; Tumkur has been summarized in the form of Table 4.

The Table 4 shows that 99(42.85%) of faculty and students access to N-LIST services for the purpose of 'assignment' like academic works, followed by 92(39.82%) for 'Reading/writing research papers', 62(26.83%) for 'Preparing /accessing teaching resources', 50(21.64%) 'For collecting general information', and only 19(08.22%) for 'Preparation for Seminar, conference and workshop', the Table-4 also depicts that 31(70.45%) of faculty for the purpose of use Reading/writing research papers and 96(51.33%) students use for assignment.

Preferred file format for downloading N-LIST Services

The preferred file format for downloading N-LIST services among faculty and students by Constitute First Grade

Table 5. Preferred file format for downloading N-LIST Services

File Format	Faculty (N=44%)	Students (N=187)	Total (N=231)
PDF	39(88.63%)	162(86.63%)	201(87.01%)
HTML	20(45.45%)	17(09.09%)	37(16.01%)
Any other	05(11.36%)	21(11.22%)	26(11.25%)

Note: Because of multiple choice options the percentage is exceeded to more than 100%.

Table-6. Preferred physical storage medium used for storing downloaded services.

Storage Media	Faculty (N=44)	Students (N=187)	Total (N=231)
Pen Drive	26(59.09%)	177(94.65%)	203(87.87%)
Compact/ DVD	12(27.27%)	14(07.48%)	26(11.25%)
Memory Card	03(06.81%)	19(10.16%)	22(09.52%)

Note: Because of multiple choice options the percentage is exceeded to more than 100%.

Colleges affiliated to Tumkur University, Tumkur has been summarised in the form of Table 5

The Table-5 depicts that 201(87.01%) faculty and students prefer to use 'PDF' format, followed by 37(16.01%) 'HTML', and 26(11.25%) 'Any other ', like Rich text format, MS-WORD etc. The Table-5 also depicts that 39(88.63%) faculty Preferred file format for downloading N-LIST Services PDF File Format and 162(86.63%) students also prefer to use 'PDF' format, followed by 20(45.45%) faculty and 17(09.09%) students were use 'HTML' format, for downloading N-LIST services.

Preferred physical storage medium used for storing downloaded services.

The preferred physical storage medium used for storing downloaded N-LIST services which Constitute First Grade Colleges affiliated to Tumkur University, Tumkur has been summarized in the form of Table 6

The Table 6 depicts that 203(87.87%) faculty and students prefer to store downloaded N-List resources in 'Pen Drive', followed by 26(11.25%) 'Compact/ DVD', and 22(09.52%) 'Memory Card', were use faculty and students for storage. The Table 6 also depicts that 26(59.09%) faculty preferred physical storage medium used for storing downloaded services which pen Drive and 177(94.65%) students for use Pen Drive for stored N-LIST services, followed by 12(27.27%) faculty and 14(07.48%) students were use Compact/ DVD storage

media, and only 03(06.81%) faculty and 19(10.16%) students were use 'Memory Card', for storing N-LIST services.

Rating of N-LIST Information Services

The Rating of N-LIST Information services, by faculty and students of Tumkur University Constitute First Grade Colleges has been summarised in the form of Table-7

The Table-7 indicates the features about N-LIST information services, the majority of faculty and students Excellent 33(14.28%) Organized information, followed by Very Good 51(22.07%) Accessibility, Access Speed 87(37.66%) Good, Easy to use 97(41.99%) Average and Easy to use 69 (29.87%) Poor, rating of the N-LIST information services among faculty and students of First Grade Colleges affiliated to Tumkur University, Tumkur.

Problems/Barriers faced while using N-LIST Services

The problems/barriers faced while using Constitute First Grade Colleges faculty and students affiliated to Tumkur University, Tumkur has been summarised in the form of Table-8

The Table-8 depicts the problems faced by the faculty members and students while using/ accessing N-LIST Services. About 114(49.35%) faculty and students face problem due to varied search pattern, followed by 86(37.22%) System hangs up, 76(32.90%) It is taking lot

Table 7. Rating of N-LIST Information Services

Rating scale	1	2	3	4	5
Easy to use	12(05.19%)	22(09.52%)	31(13.41%)	97(41.99%)	69(29.87%)
Up-to-date	19(08.22%)	37(16.01%)	43(18.61%)	83(35.93%)	49(21.21%)
Accessibility	7(03.03%)	51(22.07%)	49(21.21%)	89(38.52%)	35(15.15%)
Access Speed	14(06.06%)	45(19.48%)	87(37.66%)	72(31.16%)	13(05.62%)
Usefulness	27(11.68%)	30(12.98%)	61(26.40%)	84(36.36%)	29(12.55%)
Hypertext links	19(08.22%)	49(21.21%)	61(26.40%)	83(35.93%)	19(08.22%)
Organized information	33(14.28%)	44(19.04%)	69(29.87%)	59(25.54%)	26(11.25%)
Comprehensiveness	17(07.35%)	35(15.15%)	72(31.16%)	83(35.93%)	24(10.38%)
Flexibility	28(12.12%)	49(21.21%)	59(25.54%)	76(32.90%)	19(08.22%)

Note: 1= Excellent, 2= Very Good, 3= Good, 4= Average, 5= Poor

Table 8. Problems/Barriers faced while using N-LIST Services

Problems/Barriers	Faculty (N=44)	Students (N=187)	Total (N=231)
Varied search pattern	16(36.36%)	98(52.40%)	114(49.35%)
It is taking lot of time to get connected to the required site	11(25.00%)	65(34.75%)	76(32.90%)
System hangs up	03(06.81%)	83(44.38%)	86(37.22%)
Virus affected	09(20.45%)	17(09.09%)	26(11.25%)
Unwanted pages	07(15.90%)	13(06.95%)	20(08.65%)
Less band width	10(22.72%)	27(14.43%)	37(16.01%)

Note: Because of multiple choice options the percentage is exceeded to more than 100%.

of time to get connected to the required site, 37(16.01%) Less band width, 26(11.25%) Virus affected and only20 (08.65%) Unwanted pages by faculty and students while accessing problems of N-LIST services, the Table-8 also indicates that 16(36.36%) faculty face the problems while using N-LIST Services is due to varied search pattern, followed by 11(25.00%) It is taking lot of time to get connected to the required site, 10(22.72%) Less band width, 09(20.45%) Virus affected, 07(15.90%) Unwanted pages and 03(06.81%) System hangs up and 98(52.40%) students Problems/Barriers faced while using N-LIST Services Varied search pattern, followed by 83(44.38%) System hangs up, 65(34.75%) It is taking lot of time to get connected to the required site, 27(14.43%) Less band width, 17(09.09%) Virus affected and only 13(06.95%) Unwanted pages access to students while faced the problems.

Level of satisfaction about information retrieved through N-LIST Services

The Level of satisfaction about information retrieved through N-LIST Services by the faculty and students of constitute first Grade Colleges affiliated to Tumkur University, Tumkur has been summarized in the form of Table-9.

Table-9 shows that level of satisfaction among the faculty and students retrived through the N-LIST services by Constitute First Grade Colleges, affiliated to Tumkur University, Tumkur. About 68(29.43%) faculty and students are extremely satisfied with the retrieved N-LIST Services, followed by 55(23.80%) Moderately satisfied, 47(20.34%) Satisfied, 37(16.01%) Slightly satisfied and only 24(10.38%) faculty and students are not at all satisfied with the information retrieved through N-LSIT services (Sinha, Manoj Kumar, Bhattacharjee, Sucheta and Bhattacharjee, Sudip, 2013).

FINDINGS AND SUGGESTIONS

In the present study the authors have provided a useful summary of Use of N-LIST Services by the faculty and students of Constitute First Grade Colleges affiliated to Tumkur University, Tumkur. The major findings of the study and suggestions to improve the access and usage

Table 9. Level of satisfaction about information retrieved through N-LIST Services

Level of Satisfaction	Faculty (N=44)	Students (N=187)	Total (N=231)
Extremely satisfied	06(13.63%)	62(33.15%)	68(29.43%)
Satisfied	10(22.72%)	37(19.78%)	47(20.34%)
Moderately satisfied	12(27.27%)	43(22.99%)	55(23.80%)
Slightly satisfied	11(25.00%)	26(13.90%)	37(16.01%)
Not at all satisfied	05(11.36%)	19(10.16%)	24(10.38%)

of these electronic information resources have been summarised below:

Findings

The major findings of the study are:

- Majority of 231 (78.83%) faculty and students use N-LIST Services.
- About 190(82.25%) faculty and students use Economic and Political Weekly and 159(68.83%) use Indian Journals.
- Majority of 142(61.47%) faculty and student use trial and error method for accessing N-LIST Services.
- About 31(70.45%) faculty use N-LIST services for the purpose of reading/writing research papers and 96(51.33%) student use N-LIST Resources for completing assignment.
- Majority of 201(87.01%) faculty and students use PDF File format for downloading information resources and 203(87.87%) faculty and students prefer Pen Drive for storing download N-LIST resources.
- About 97(41.99%) of Faculty and Students opine N-LIST services are easy to use.
- Majority of 114(49.35%) faculty and students face problems of varied search pattern while retrieving N-LIST resources and Services.
- About 68(29.43%) faculty and students are extremely satisfied with the information retrieved through N-LIST Services.

Suggestions

- The Library and Information Centre should organize seminars, workshops and orientation programmes for faculty and students for accessing N-LIST Services at regular interval of time to keep them pace with latest technological changes.
- The faculty and students should be trained in

using advance search options available in search menu of N-LIST services for retrieval of relevant information.
- College library computer centre infrastructure should be further improved for providing better N-LIST Services.
- The faculty and students should further improve their information searching skills to make better use of largely available electronic information resources.

CONCLUSION

The emergence of internet as a ubiquitous global information and communication resource propelled people's lives into the digital epoch. Due to rapid advancement in ICT the internet has become an inseparable part of today's higher educational system. With the development in the area of Internet and information technology, more and more of the educational resources are being produced, distributed and accessed in the digital format. The government of India is spending large amount on the e-resources which are made available via consortia. The electronic resources in the virtual world represent a large investment of people's effort, money and wisdom. The users should become familiar with latest information resources and to make optimum utilization of electronic information resource (N-LIST) available in the institution.

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