

## EVALUATION OF THE NATIONAL INSTITUTE OF TECHNOLOGY (NIT'S) LIBRARIES IN INDIA: WITH SPECIAL REFERENCE TO LIBRARY WEBPAGES

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**ABSTRACT:** - *This paper presents the major findings from analysis & evaluation of library websites of all NIT's in India World wide web. Advent of Internet technologies especially website is considered as a most efficient medium to catch and disseminate diverse kind of Information. Thus, every institution has its own website and is using this medium for imparting variety of Information to the targeted users. This study aims to evaluate and analysis the services, facilities and other information available on the library websites of 31 National Institute of Technology (NIT's). The results of this study revealed that the majority of NIT library websites are providing information with regarded to their name, about library book Collection, electronic resources, accuracy, diverse services and sections. But, lacking of library mission statements, currency, and reliability search interfaces. It is also discovered from this study that most of NIT library websites need to improve. This study will be helpful to judge the quality and diverse facilities present on the 31 NIT library websites in India..*

**KEY WORDS –** *National Institute of Technology (NIT's), Library and Information Science, Web Sites, Library Web Page*

### Introduction

National institute of technology (NIT's) are the prominent institutes established in India for imparting scientific and technological education as well as knowledge. Libraries of these institutes are backbone for canalizing the knowledge in science and technology and one of the important facilities in the higher education.

In India there are 31 NIT's established for given education and their institutes plays important role in scientific and technological activities and industrial application in country.

Libraries of these institutes are always in the limelight to attract the student's community.

Intact, Library act as an information resources center, information hub which helps the students and teachers for a providing the knowledge and thus make available the most of the information through literature in varieties from on past, Present & Future Technology. Therefore being the library professional it is important to study the role of library information center in higher education in science and technology. Libraries act as information hubs were most of the new ideas took place. In fact, it is researcher laboratory and plays vital role in the human knowledge and development. Therefore, being future library professional it is necessary the study the role of libraries, its collection development and user oriented services, facility rendered to the library management to the students and teachers community.

### History of NIT's

There is presently 31 NIT's in India. The NIT's are deliberately scattered throughout the country with the idea of having one NIT in every major state of India to achieve balanced regional development. The NIT's are rated just next to the Indian IIT's in terms of quality of education, research and placements.

All NIT's are Autonomous technical Universities. The NIT's offer B.Tech program in various disciplines of Engineering and Technology along with research programs leading to M.Tech. & Ph.D.

National Institutes of Technology (NIT's) are now branded among the premier technical education institutes in India. Till their existence as the Regional Engineering Colleges (REC's). They were controlled by the respective state government with lesser funds and at times regional politics too resulted in lack of proper direction.

It was the dream of Pandit Jawaharlal Nehru to see Indian emerge as a leader in science and technology. In order to serve the growing demand for trained quality technical manpower, the Government of India started fourteen RECS between 1959 and 1965(NIT'S located at Allahabad, Bhopal, Calicut, Durgapur, Kurukshetra, Jamshedpur, Jaipur, Nagpur, Rourkela, Srinagar, Surathkal, Surat, Tirichirapally and Warangal). Three other NIT's were added between 1970 and 1990 (NIT'S located at Silcher, Hamirpur and Jalandhar).Each collage was a joint and cooperative enterprise of the central government and the concerned state government. Recently MHRD issued NIT status to three more collages which are located at Patna (Bihar Engg. Collage a 130 years old collage), Raipur (Govt. Engg. Collage) and Agartala (Tripura Engg, Collage).Based on the request of respective state Government and feasibility, future NIT's shall be either converted from the existing government institutes or can be setup as brand new (Greenfield)NIT. Then ten new other NIT's were established in 2010 (NIT's located Goa, Pondicherry, Delhi, Uttarakhand, Mizoram,

Meghalaya, Manipur, Nagaland, Arunachal Pradesh, Sikkim)

All the 31 NIT's now offer degree courses of Bachelors, Master and Doctorate levels in various branches of Engineering and Technology. The entire non-recurring expenditure and expenditure for post graduate courses during the REC times were borne by the central government. On the other hand the entire recurring expenditure on undergraduate courses was shared equally by the central and state government.

## 1.2 Definitional Analysis

**“NIT”:** -

The National Institute of Technology (NIT'S) is engineering and technology oriented colleges in India. They were originally called Regional engineering college at bachelors, Masters and doctorate levels in various branches of engineering and technology.

**“Web Site”:-**

- It's one or more pages that you create to go on the internet you must have three things to put a web site on the internet: a domain name, a web site and web host. A domain name is your web site address. eg. [www.actnow domains.com](http://www.actnowdomains.com) is this web site domain name. A web host stores your web site so that when someone types in your domain name your web site appears on their computer.

**“Library Web Pages”:-**

Goals of library web pages.

- To facilitate access to library resources.
- To supplement access to library services.
- To compliment in hanced the academic program of the library.
- To disseminate accurate and current information on library resources and services.
- The library web pages will achieve the above goals through an attractive accurate intuitive technically efficient and flexible presentation.

## Review of Literature

This chapter deals with review of related literature. The purpose of study of research works done in the some field is to understand what type of study has been done and what exactly has been explored before the present research work standard. The study of related literature and research work is very essential and important as it provides us proper guidelines. The review of related research provides appropriate track to execute and complete the research.

In the present study I have search various books, dissertations, articles, journals, thesis & websites. In this project I have studied website analysis, web based study, websites research, webomatic analysis study and various fields just link NIT's library websites, IIT's library website IIM's library websites etc. In this study discussed

& evaluated 31 NIT's websites various thinks & identified which is best NIT in India.

### **Aims and Objectives of study**

- To find out the role of NIT in the development of science and technology
- To find the role of NIT libraries in collection of information researches on science and technology.
- To study the individual library content, facility, services and evaluation of library web pages.
- To study the resource sharing policy consortia among NIT'S
- The role of NIT in technology transfer to industrial setup in India
- To analysis the library web pages of NIT's Library Websites.
- To suggest measures for the improvements of National Institute of Technology library websites.
- To study the library in links to the 30 No. NIT's Web sites.

### **Scope and Limitation**

In India there are 31 No's of NIT's established for science and technology education. Some of them are established in recent past and others are well established and equipped with libraries on information center and the information about them is available through their web sites. The present topic is a Web study of Individual NIT's collected through their home

page and library web page and its link library page. The scope of the topic is to study the establishment of NIT's in India, their library, library services and other utility services to user community indicated through their web sites. Therefore the scope of the topic is study NIT's and library web pages.

### **Research Methodology**

Information technology had changed the entire scenario for disseminating the information. Web network is one of the best tools for the same. In the present topic the use of this technology is carried out by using web sites. Web sites of each of these National Technology Institutes and there were studied. Therefore library as a resources center studied to note down the information about the library contents, services, facilities their web sites in library web pages.

Thus topic, Evaluation of the National Institute of Technology (NIT's) Libraries in India: With special reference to library web pages.

**Analysis of Table No.1****Information about Library****Table No.1 Home page information of Nit's website**

Library Staff	Opening Hour	Language of Web Site	Phone No.	Fax No.	E-mail	Contact Address	Name of NIT's	Information about library
N	N	Y	Y	Y	Y	Y	Y	NIT Agartla
Y	Y	Y	Y	N	Y	Y	Y	NIT Allahabad
N	N	Y	Y	Y	Y	Y	Y	NIT Andrapradesh
N	Y	Y	Y	Y	Y	Y	Y	NIT Arunachal
N	Y	Y	Y	N	Y	Y	Y	NIT Bhopal
Y	Y	Y	Y	Y	Y	Y	Y	NIT Calicut
N	Y	Y	Y	Y	Y	Y	Y	NIT Delhi
N	Y	Y	Y	N	Y	Y	Y	NIT Durgapur
N	N	Y	Y	Y	Y	Y	Y	NIT Goa
Y	Y	Y	Y	N	Y	Y	Y	NIT Himirpur
N	Y	Y	N	N	N	N	Y	NIT Jaipur
Y	Y	Y	N	N	Y	Y	Y	NIT Jalandhar
N	Y	Y	N	N	Y	Y	Y	NIT Jamshepur
Y	Y	Y	Y	N	Y	Y	Y	NIT Kurukshetra
N	N	Y	Y	Y	Y	Y	Y	NIT Manipur
N	N	Y	Y	Y	Y	Y	Y	NIT Meghalaya
N	Y	Y	Y	Y	Y	Y	Y	NIT Mizoram
Y	Y	Y	Y	N	Y	Y	Y	NIT Nagaland
Y	Y	Y	Y	Y	Y	Y	Y	NIT Nagpur
N	N	N	N	N	N	Y	Y	NIT Patna
N	N	Y	Y	Y	Y	Y	Y	NIT Pondichery
Y	Y	Y	Y	N	Y	Y	Y	NIT Raipur
Y	Y	Y	Y	Y	Y	Y	Y	NIT Rourkela
Y	Y	Y	Y	Y	N	Y	Y	NIT Silcher
Y	Y	Y	Y	N	Y	Y	Y	NIT Sikkim
N	N	Y	Y	Y	Y	Y	Y	NIT Srinagar
N	N	Y	Y	Y	Y	Y	Y	NIT Surat
N	N	N	N	N	N	N	Y	NIT Suratkhal
Y	Y	Y	Y	Y	Y	Y	Y	NIT Trichy
Y	Y	N	N	N	N	N	Y	NIT Uttarakhand
Y	Y	Y	Y	Y	Y	Y	Y	NIT West Bengal









Percentage	Score	Ask Librarian Services via	Outsider Membership Ser.	Reference Service	Book bank Service	Photocopying	Databases Search Service	Current Awareness Service
37.25	19	N	N	Y	N	Y	N	N
45.1	23	N	Y	Y	Y	Y	Y	N
21.57	11	N	N	N	N	N	N	N
15.69	8	N	N	N	N	N	N	N
72.55	37	N	N	Y	Y	Y	Y	Y
54.9	28	N	N	Y	N	Y	Y	N
25.49	13	N	N	N	N	N	N	N
35.29	18	N	N	Y	N	Y	Y	Y
31.37	16	Y	N	N	N	N	N	N
56.86	29	N	N	Y	Y	Y	Y	N
29.41	15	N	N	Y	Y	Y	Y	Y
35.29	18	Y	N	Y	N	Y	Y	N
56.86	29	Y	N	Y	Y	Y	Y	N
60.78	31	N	N	Y	N	N	N	N
17.65	9	N	N	N	N	N	N	N
17.65	9	N	N	N	N	N	Y	N
17.65	9	N	N	N	N	N	N	N
39.22	20	N	N	N	N	N	N	N
35.29	18	N	N	N	N	N	N	N
13.73	7	N	N	N	N	N	N	N
15.69	8	N	N	N	N	N	N	N
62.75	32	Y	N	Y	Y	Y	Y	Y
98.04	50	N	Y	Y	Y	Y	Y	Y
86.27	44	Y	Y	Y	Y	Y	Y	Y
50.98	26	Y	N	Y	Y	Y	Y	Y
31.37	16	N	Y	Y	N	Y	N	N
62.75	32	N	N	Y	N	N	Y	N
9.804	5	N	N	N	N	N	N	N
35.29	18	N	N	N	N	N	N	N
19.61	10	N	N	N	Y	N	N	N
31.37	16	N	N	N	N	N	N	N

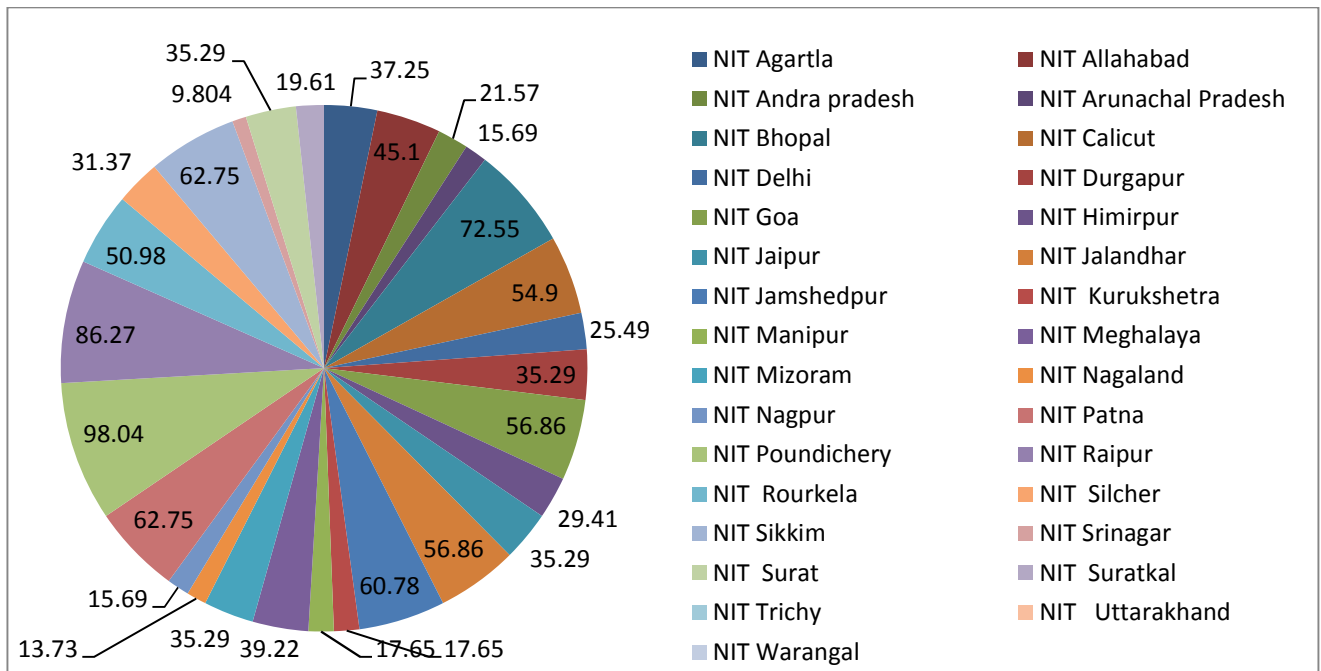


Table 1 depicts information regarding NIT library websites which includes name of the NIT, contact address, languages, library staff, library hours, library floor structure, opening hours, library committees, rules, news and updates, library collections, library membership details, plagiarism check, information regarding various library sections, and services, frequently asked questions (FAQ) and other details as well table 1 demonstrates out of various general information available on library websites, (90%) are available on NIT Rourkela library Websites. Followed by almost (77%) criteria available on NIT Silcher library websites and about 86% indicators present on MNIT Bhopal library websites. While, only (15%) criteria are present on NIT Arunachal Pradesh and NIT Meghalaya library websites, respectively and lowest (13%) found on NIT Patna library websites.

On the other hand, indicators such as institution name about library contact address and opening hours, found on most of NIT library websites, whilst, points namely plagiarism check facility, walk in user facility, floor plan/ map, newspaper, web counter and visitor number discovered from very less number of NIT library websites.

All NIT library websites are providing information in English language but NIT Jalandhar and NIT Srinagar are providing information in Hindi languages also. 3 library websites NIT Warangal, NIT Uttarakhand and NIT Arunachal Pradesh are providing option to view their information in around 21 languages by clubbing Google Translator tool. It is also discovered from this table all 31 NIT library websites are built on academic domain name except NIT Srinagar library website.

## Evaluation of Table No. 2

Terminology Used in	Spelling and Grammar	given on other	Update Date given on	Matched with	Purpose	Webmaster R-mail	Official Logo	Sponsored Body	Particulars
Y	N	N	N	N	N	N	Y	N	NIT Agartla
Y	N	N	N	N	N	N	Y	N	NIT Allahabad
Y	N	N	N	N	Y	Y	Y	N	NIT Andrapradesh
N	N	N	N	N	N	Y	Y	N	NIT Arunachal Pradesh
Y	N	N	N	N	N	N	Y	N	NIT Bhopal
Y	N	N	N	N	N	N	N	N	NIT Calicut
Y	N	N	N	N	Y	N	Y	N	NIT Delhi
Y	N	N	N	N	N	Y	Y	N	NIT Durgapur
N	N	N	N	N	Y	Y	Y	N	NIT Goa
Y	N	N	N	N	N	N	Y	N	NIT Himirpur
Y	N	N	Y	N	N	Y	N	N	NIT Jaipur
Y	N	N	Y	N	N	Y	Y	N	NIT Jalandhar
Y	N	N	N	N	N	Y	Y	N	NIT Jamshedpur
Y	N	N	N	N	N	Y	Y	N	NIT Kurukshetra
N	N	N	N	N	N	Y	Y	N	NIT Manipur
Y	N	N	N	N	N	N	Y	N	NIT Meghalaya
N	N	N	N	N	N	Y	Y	N	NIT Mizoram
Y	N	N	N	Y	N	Y	Y	N	NIT Nagaland
Y	N	N	N	N	Y	Y	N	N	NIT Nagpur
Y	N	N	N	N	N	N	Y	Y	NIT Patna
Y	N	Y	N	N	N	N	Y	Y	NIT Pondichery
Y	N	Y	Y	N	N	Y	Y	N	NIT Raipur
Y	N	N	N	N	N	N	Y	Y	NIT Rourkela
Y	N	Y	Y	N	N	Y	Y	N	NIT Sikkim
Y	N	N	N	Y	Y	Y	Y	N	NIT Silcher
Y	N	N	N	Y	Y	Y	Y	N	NIT Srinagar
N	N	N	N	N	N	Y	Y	N	NIT Surat
Y	N	N	N	N	N	Y	Y	N	NIT Suratkal
Y	N	N	N	N	N	N	Y	N	NIT Trichy
Y	N	N	N	N	N	Y	Y	N	NIT Uttarakhand
Y	N	N	N	Y	Y	Y	Y	N	NIT Warangal







Percentage (%)	Obtained Score / Max. Score	Through Cloud-	Search option	Customize Search	Results NumberSta
24.49	12	N	N	N	N
40.82	20	N	N	N	N
46.94	23	N	N	N	N
8.16	4	N	N	N	N
51.02	25	N	N	N	N
46.94	23	N	N	N	N
34.69	17	N	N	N	N
53.06	26	N	N	N	N
34.69	17	N	N	N	N
44.90	22	N	N	N	N
46.94	23	N	N	N	N
42.86	21	N	N	N	N
57.14	28	N	N	N	N
53.06	26	N	N	N	N
12.24	6	N	N	N	N
30.61	15	N	N	N	N
4.08	2	N	N	N	N
22.45	11	N	N	N	N
55.10	27	N	N	N	N
12.24	6	N	N	N	N
26.53	13	N	N	N	N
53.06	26	N	N	N	N
57.14	28	Y	Y	N	N
55.10	27	N	N	N	N
67.35	33	N	N	N	N
42.86	21	N	N	N	N
44.90	22	N	N	N	N
42.86	21	N	N	N	N
36.73	18	N	N	N	N
24.49	12	N	N	N	N
32.65	16	N	N	N	N

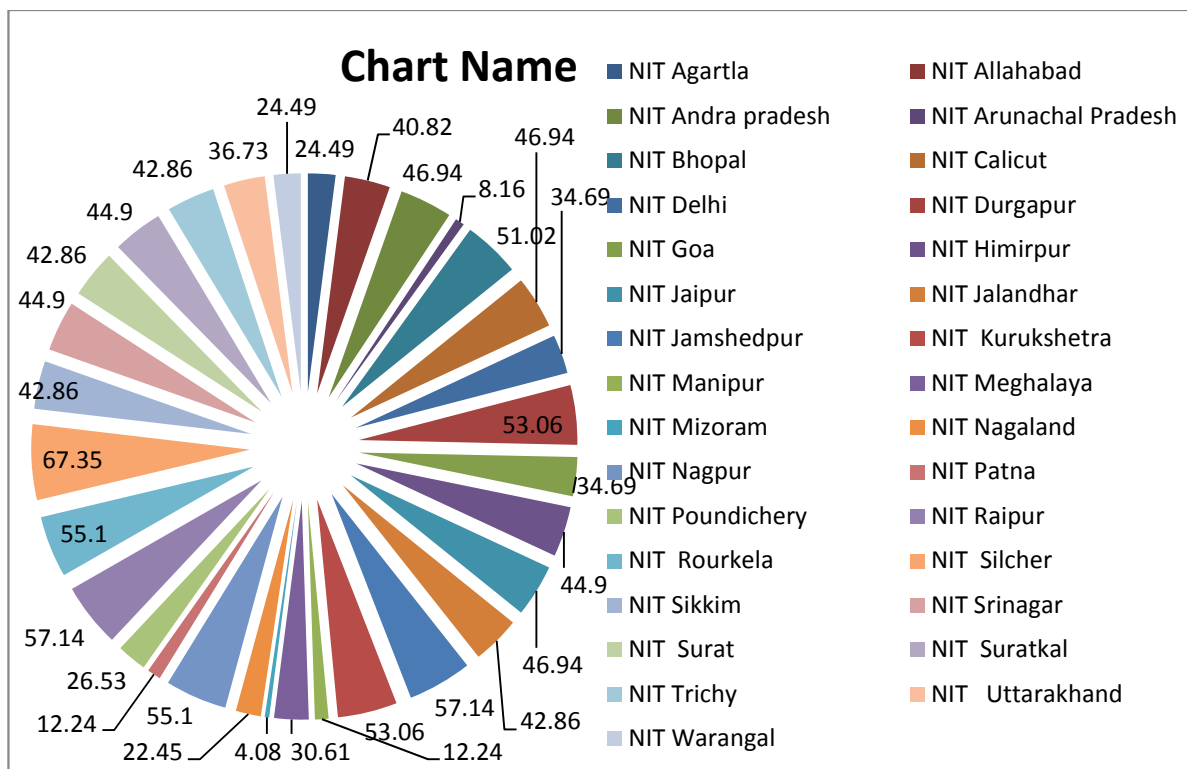


Table no 2 provides availability of indicators with regard to authority , intended audience, purpose , coverage, currency, relevance, accuracy , reliability , navigation, structure linkage and search interfaces.

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These are established criteria for any kind website and every websites should cover all essential criteria to make quality contents to library websites.

It can be seen through table 2 that majority of NIT library websites cloud not reach up to 80% criteria in which only NIT Silcher library websites got highest criteria and 8 NIT library websites have cleared 50 to 60% criteria. Rest NIT library websites cleared only up to up to 48% criteria in which lowest criteria below 10% found on NIT Mizoramand NIT Arunachal Pradesh library websites. Large numbers of NIT library websites are suffering from currency, reliability and search

### Ranking of NIT Library Websites

Table no 3

Sr.No.	Name of NIT Library Websites	Total Score T-1	Total Score T-2	Total Score T1+T2=T3	Ranking of NIT's Library Websites
1	NIT Agartala	12	19	31	Below Average
2	NIT Allahabad	20	23	43	Average
3	NIT Andrapradesh	23	11	34	Below Average
4	NIT Arunachal Pradesh	04	08	12	Need Improvement
5	NIT Bhopal	25	37	62	Average
6	NIT Calicut	23	28	51	Average
7	NIT Delhi	17	13	30	Below Average
8	NIT Durugpur	26	18	44	Average
9	NIT Goa	17	16	33	Below Average
10	NIT Himirpur	22	29	51	Average
11	NIT Jaipur	23	15	38	Below Average
12	NIT Jalandhar	21	18	39	Below Average
13	NIT Jamshedpur	28	29	57	Average
14	NIT Kurukshetra	26	31	57	Average
15	NIT Manipur	06	09	15	Need Improvement
16	NIT Meghalaya	15	09	24	Need Improvement
17	NIT Mizoram	02	08	10	Need Improvement
18	NIT Nagaland	11	20	31	Below Average
19	NIT Nagpur	27	18	45	Average
20	NIT Patna	06	07	13	Need Improvement
21	NIT Poundichery	13	08	21	Need Improvement
22	NIT Raipur	26	32	58	Average
23	NIT Raourkela	28	50	78	Excellent
24	NIT Sikkim	27	44	71	Above Average
25	NIT Silcher	33	26	59	Average
26	NIT Srinagar	21	16	37	Below Average
27	NIT Surat	22	32	54	Average
28	NIT Suratkal	21	05	16	Need Improvement
29	NIT Trichy	18	18	36	Below Average
30	NIT Uttarakhand	12	10	22	Need Improvement
31	NIT Warangal	16	16	32	Below Average



For determining ranking of the NIT Library websites selected for this study a quantitative five point ranking scale developed that is ranging from excellent to need for improvement separately. The ranking calculation conducted on the basic of total number of points obtained by individual NIT library website out of total 100 points included in Table 1 & 2 respectively. The ranking scale developed for above said purpose is given below: 90-100, Excellent 70-89, above average 40-69 Average, 25-39 Below average and 01-24 Need for improvement.

It can be seen from Table 3 that majority of 11 NIT library websites got average rank and 10 NIT library websites secured below average rank. While 8 library websites of NIT Arunachal Pradesh, NIT Mizoram, NIT Manipur, NIT Meghalaya, NIT Patna, NIT Pondichery, NIT Suratkal and NIT Uttarakhand required need for improvement. NIT Silcher is above average provide information and NIT Rourkela is just short to get Excellent rank.

### Findings

The following findings received on the basis of analysis of the results of this study:

- 1) Maximum NIT library websites do not contain essential features such as mission statements library floor map, walk-in users facility, Plagiarism check facility, FAQ,

ask librarian facility and link to other important resources on their respective library websites.

- 2) Majority of NIT library websites are not providing information about updates date of library websites on their homepages and other webpages available with in respective NIT library websites.
- 3) Webmaster's e-mail address, privacy, disclaimer and website map indicators were not found in some NIT library websites.
- 4) Only two NIT library websites received above average rank whilst none NIT library websites reached up to excellent rank.

### Conclusion

This study provides an insight about the information, Services, web resources and facilities available on NIT library websites. Majority of NIT library websites are suffering from clear mission statement, currency, reliability, effective searching interfaces. Therefore, there is need for improvement and development of contents of the library websites especially for those NIT library websites which do not have essential criteria on their respective library websites effective, decorative dynamic and feedback techniques may be employed and comparison and adoption of contents and

information may be done time to time from fully developed library websites of other institutions of Technology and Indian Institutes of Management and so on, to maintain the quality of the library website.

- 22) [www.nitsri.net](http://www.nitsri.net)
- 23) [www.nitt.edu](http://www.nitt.edu)
- 24) [www.nitw.ac.in](http://www.nitw.ac.in)
- 25) [www.svnit.ac.in](http://www.svnit.ac.in)
- 26) [www.vnit.ac.in](http://www.vnit.ac.in)

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- 1) Hirwade, Mangala(2003), "Evaluation of websites of India Universities , with special reference to library web pages" 2003 PP. 1-648. Access from-RTM Nagpur University website.
- 2) [www.nitc/sikkim/index.jsp](http://www.nitc/sikkim/index.jsp)
- 3) [www.manit.ac.in](http://www.manit.ac.in)
- 4) [www.mnit.ac.in](http://www.mnit.ac.in)
- 5) [www.nitagartala.in](http://www.nitagartala.in)
- 6) [www.nitc.ac.in](http://www.nitc.ac.in)
- 7) [www.nitdelhi.ac.in](http://www.nitdelhi.ac.in)
- 8) [www.nitdgp.ac.in](http://www.nitdgp.ac.in)
- 9) [www.nitdgp.ac.in/nit10/nitachws/](http://www.nitdgp.ac.in/nit10/nitachws/)
- 10) [www.nitgoa.ac.in](http://www.nitgoa.ac.in)
- 11) [www.nith.ac.in](http://www.nith.ac.in)
- 12) [www.nitj.ac.in](http://www.nitj.ac.in)
- 13) [www.nitjsr.ac.in](http://www.nitjsr.ac.in)
- 14) [www.nitk.ac.in](http://www.nitk.ac.in)
- 15) [www.nitkkcr.ac.in](http://www.nitkkcr.ac.in)
- 16) [www.nitm.ac.in](http://www.nitm.ac.in)
- 17) [www.nitmanipur.in](http://www.nitmanipur.in)
- 18) [www.nitpac.in](http://www.nitpac.in)
- 19) [www.nitrkl.ac.in](http://www.nitrkl.ac.in)
- 20) [www.nitrr.ac.in](http://www.nitrr.ac.in)
- 21) [www.nits.ac.in](http://www.nits.ac.in)