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A WEBOMETRIC STUDY OF NIRF INDIA RANKING 2023 TOP 20 COLLEGE LIBRARY WEBPAGES RANKED UNDER COLLEGE CATEGORY

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Abstract :

In the current age of digitization and the use of online services, websites plays an important role in the dissemination of information to the users. The library webpages offers platform to the users to navigate the related information about library. The National Institutional Ranking Framework (NIRF) plays an important role in evaluating and ranking various higher education institutions in India. This study presents a webometric study focused on the top 20 college library webpages, listed in NIRF India Ranking 2023, under the college category. Study examines the domain, domain age, internal and external links and total links, web impact factor, global and India rank of the top 20 college library webpages. To collect data for this study, smallseotools.com and similarweb.com had used to find out domain age, domain authority, page authority and total, internal and external links and global and India rank of college library websites covered in this study.

Keywords: Webometric study, Website analysis, Webometric analysis, NIRF Ranking 2023, Library webpages, Domain & Page Authority, Web Impact Factor, Global Rank, India Rank.

Introduction :

In the current age of digitization and the use of online services, library websites plays an important role in the dissemination of information to the users. Library is the heart of any Institution. Library webpages provides the information of the library services and resources. It is the easiest way to find the information through simple search on internet without going to library. Library webpages facilitating seamless access to academic resources of users need. The National Institutional Ranking Framework (NIRF) plays an important role in evaluating and ranking various higher education institutions in India. In this study, the researcher studied the webometric study of the library webpages of the top twenty college library webpages ranked in NIRF 2023.

The National Institutional Ranking Framework (NIRF) :

The National Institutional Ranking Framework (NIRF) is an initiative by the Ministry of Education, Government of India. Its function to assess and rank higher education institutions in India based on measurable criteria. NIRF was introduced to foster a culture of competition among institutions, promote excellence in higher education, and provide stakeholders with reliable data for decision-making. NIRF annually publishes institutions ranking on a wide range of parameters such as teaching, learning and resources, research and professional practice, Graduation Outcomes, Outreach and Inclusivity, and Perception. The study includes the top 20 college websites in India listed in the college category in NIRF Rankings 2023. This study builds webometric analysis with the help of webometric tools focusing on library web pages.

Table 1: National Institutional Ranking Framework (NIRF) ranking colleges in year-2023



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Ran k	NIRF ranking 2021 colleges	City	State	Library web page
1	Miranda House	Delhi	Delhi	https://www.mirandahous e.ac.in/facilities/library.p hp
2	Hindu College	Delhi	Delhi	https://hinducollege.ac.in/ library.aspx
3	Presidency College	Chennai	Tamil Nadu	https://www.presidencyco llegechennai.ac.in/UI/De partmentPage.aspx
4	PSGR Krishnammal College for Women	Coimbatore	Tamil Nadu	https://www.psgrkcw.ac.i n/gr-govindarajulu- memorial-general-library/
5	St. Xavier`s College	Kolkata	West Bengal	https://www.sxccal.edu/c entral-library/
6	Atma Ram Sanatan Dharm College	New Delhi	Delhi	https://www.arsdcolleg e.ac.in/index.php/about library/
7	Loyola College	Kolkata	West Bengal	https://www.loyolacolleg e.edu/library/profile
8	Rama Krishna Mission Vivekananda Centenary College	Rahara	Wes Bengal	https://rkmvccrahara.org/ viewalllist.aspx?id=29
9	Kirori Mal College	Delhi	Delhi	http://kmclibrary.saras watilib.com/
10	Lady Shri Ram College For Women	New Delhi	Delhi	https://lsr.edu.in/students/ facilities/library/
11	Shri Ram College of Commerce	Delhi	Delhi	https://www.srcc.edu/libr ary
12	Hans Raj College	Delhi	Delhi	https://www.hansrajcolle ge.ac.in/infrastructure/libr ary
13	Sri Venkateswara College	Delhi	Delhi	http://www.svc.ac.in/SV C_MAIN/Library/library. php
14	St. Stephens's College	Delhi	Delhi	https://www.ststephens.e du/library/
15	Ramakrishna Mission Vidyamandira	Howrah	West Bengal	https://vidyamandira.a c.in/
16	Madras Christian College	Chennai	Tamil Nadu	https://mcc.edu.in/library- 2/
17	Deshbandhu College	New Delhi	Delhi	https://www.deshbandhuc ollege.ac.in/library.php
18	Thiagarajar College	Madurai	Tamilnadu	https://www.tcarts.in/li brary/library.php



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19	Ramakrishna	Kolkata	West Bengal	https://rkmrc.in/library/
	Mission			
	Residential			
	College			
20	PSG College of	Coimbatore	Tamil Nadu	https://www.psgcas.ac.i
	Arts and Science			n/academics_library.ht
				ml

(Source: https://www.nirfindia.org/2023/CollegeRanking.html)

Review of Literature :

In the study titled "Web Impact Factor and Link Analysis of Selected Indian Universities" conducted by Jalal, Biswas, and Mukhopadhyay(2010), they investigate the utility and significance of the web impact factor of the websites of Indian universities. The findings revealed a notable closeness among the National Institutes of Technology (NITs) within the framework of their activities, as opposed to state and central universities where nodes demonstrated less significant linkage in the topology.

Margam Madhusudhan & Prakash Shashi (2013) conducted a webometric study of 16 IIT websites in India. Study revealed that in WIF (in-link) the IIT Bombay and IIT Madras achieved first and second position respectively as well as in world rank; whereas, WIF (in-link) position of IIT Rajasthan shows one position better rank than the world ranking.

Brahma Krishna & Verma Manoj Kumar (2019) examines the websites of 9 public libraries in India. The study found that the National Library of India tops with highest Page Authority with 21%, Total Linking Root domains with 68%, highest External Equity- Passing Links with 97%, Total Equity- Passing Links 88%, Total External Links with 97%, and Total Links with 87%. It is also found that the Internal Web Impact Factor of most of the public libraries is very low, hence there is need to be improved the websites.

Das Ankit & Gurey Pritam (2019) examines the Web Content Analysis of 26 State University Websites of West Bengal according to UGC, under Ministry of Education, Government of India and its contribution to global academic knowledge base. Study observed that accessibility, currency, speed, accuracy, aesthetic value, language, user friendliness, navigation, currency, relevancy, applicability, pertinence and qualitative nature of graphics, animations, existing library facilities, collection, availability of services and variety types of information resources provided by the library elements etc.

Dhar Prasenjit & Gayan Mithu Anjali (2022) conducted a webometric study of selected International Library Association websites. A link analysis tool https://moz.com/ used for the data collection for determining Domain Authority, Page Authority, in-links, and out-links. The study revealed that In terms of link dynamics, 4 out of 8 (50 %) websites have more external links than internal links 7 out of 8 (87.5 %) international library association websites' Domain Authority and Page Authority is below 50. Essential information are not available on the websites like customer service, currency, and FAQ.

Objective of the study :

- To analyse the URL of top 20 College websites ranked by NIRF in 2023.
- To examine the domain age and, domain authority and page authority of top 20 College library webpages ranked by NIRF in 2023.



- To examine the global and India Rank of 20 College websites ranked by NIRF in 2023.
- To identify the link analysis of selected College ranked by NIRF in 2023.

Scope and Limitations of the study :

- 1. Present Study is limited to only NIRF Ranked 2023 College Websites listed in College Section of NIRF in India.
- 2. The study is limited to only top 20 NIRF Ranked 2023 College Library Websites listed in College Section of NIRF in India. Websites of universities, engineering, management, pharmacy, medical, Law, Architecture, dental and research institute library are excluded from the study.

Hypothesis :

H1: There exits websites to top 20 colleges websites listed by NIRF in 2023.

H2: There exist significant differences in number of internal link, and external link among the website of top 20 colleges listed in NIRF 2023.

Methodology :

In the present study investigates top 20 college websites listed by NIRF in 2023. The study only focused on top 20 college website specially library webpage of colleges listed by NIRF in 2023 in College Category by observation and collected the information of domain. Data were collected by using the tool i.e. smallseo.com for domain age, internal and external link count and similarweb.com is used for count to global and India Rank of College websites. It identifies the internal links, external links and web ranking in India and Global Rank.

Analysis & interpretations :

List of top 20 colleges and their library web pages, domain age, domain registration, domain authority and page authority.

Table 2: List of colleges and their library hyperlinks, domain age, domain registration
date, domain authority and page authority.

Rank	NIRF ranking 2023 colleges	Library web page	Domain age	Domain Registratio	Domain authority	Page authority
1	Miranda House	https://www.mirandah ouse.ac.in/facilities/lib rary.php	19 Years 9 Months 20 Days	n 28-02-2004 05:00	33	25
2	Hindu College	https://hinducollege.ac .in/library.aspx	8 Years 1 Month 12 Days	06-11-2015 05:45	34	25
3	Presidency College	https://www.presidenc ycollegechennai.ac.in/ UI/DepartmentPage.as px	5 Years 3 Months 28 Days	20-08-2018 11:40	29	21
4	PSGR Krishnammal College for Women	https://www.psgrkcw. ac.in/gr- govindarajulu-	5 Years 1 Month	15-11-2018 11:32	30	19



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		memorial-general- library/	3 Days			
5	St. Xavier`s College	https://www.sxccal.ed u/central-library/	24 Years 7 Months 6 Days	13-05-1999 00:00	38	31
6	Dharm College	https://www.arsdcol lege.ac.in/index.php /aboutlibrary/	6 Years 5 Months 11 Days	07-07-2017 10:07	25	24
7	Loyola College	https://www.loyolacol lege.edu/library/profil e	26 Years 1 Month 25 Days	24-10-1997 00:00	39	27
8	Rama Krishna Mission Vivekananda Centenary College	https://rkmvccrahara.o rg/viewalllist.aspx?id =29	14 Years 6 Months 27 Days	21-05-2009 12:44	25	18
9	Kirori Mal College	http://kmclibrary.sa raswatilib.com/	19 years 9 months 21 days	28-02-2004 05:00	11	12
10	Lady Shri Ram College For Women	https://lsr.edu.in/stude nts/facilities/library/	13 Years 2 Months 14 Days	04-10-2010 09:00	40	31
11	Shri Ram College of Commerce	https://www.srcc.edu/l ibrary	25 Years 0 Month 3 Days	16-12-1998 00:00	41	30
12	Hans Raj College	https://www.hansrajco llege.ac.in/infrastructu re/library	7 Years 6 Months 5 Days	13-06-2016 05:34	32	28
13	Sri Venkateswara College	http://www.svc.ac.in/ SVC MAIN/Library/l ibrary.php	14 Years 3 Months 2 Days	16-09-2009 07:47	33	30
14	St. Stephens's College	https://www.ststephen s.edu/library/	25 Years 1 Month 27 Days	22-10-1998 00:00:00	39	32
15	Ramakrishna Mission Vidyamandira	https://vidyamandir a.ac.in/	14 Years 7 Months 7 Days	11-05-2009 05:52	31	39
16	Madras Christian College	https://mcc.edu.in/libr ary-2/	18 Years 8 Months 14 Days	04-04-2005 10:20	35	31
17	Deshbandhu College	https://www.deshband hucollege.ac.in/library .php	16 Years 2 Months 27 Days	21-09-2007 10:35:27	36	24
18	Thiagarajar College	https://www.tcarts.i n/library/library.php	18 Years 9 Months 29 Days	19-02-2005 06:03:33	32	20
19	Ramakrishna Mission Residential College	https://rkmrc.in/libr ary/	5 Years 4 Months 15 Days	03-08-2018 19:38	22	21



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	•	https://www.psgcas. ac.in/academics_libr ary.html		18-08-2005 09:07	33	28	
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Table 2 shows the top twenty colleges library web pages and their domain age, domain registration date , domain authority and page authority. It is found that Loyola College library website having oldest domain registered on 24 October, 1997 followed by the St. Stephens's College library website domain registered on 22 October, 1998 and the age of the domain was 26 Years 1 Month 25 Days and 25 Years 1 Month 27 Days respectively and the PSGR Krishnammal College for Women library website had recent domain registered on 15 November, 2018 having age of 5 Years 1 Months 3 Days. Domain Authority of Kirori Mal College having common 61 highest score followed by Sri Ram College of Commerce with 41 and Lady Shriram College for Women having 40 score. Ramakrishna Mission Residential College had lowest domain authority score of 22. It also examines that page authority of Ramkrishna Vidyamandira Library webpage with 36 highest score followed by Kirorimal College with 36 score and the Rama Krishna Mission Vivekananda Centenary College examines lowest score of 18.

Rank	NIRF ranking 2022 colleges	Library web page	Total link	Internal links	External links
1	Miranda House	https://www.miranda	159	152	7
		house.ac.in/facilities/	(100%)	(95.60%)	(4.40%)
		<u>library.php</u>			
2	Hindu College	https://hinducollege.a	219	190	29
		c.in/library.aspx	(100%)	(86.75%)	(13.25%)
3	Presidency College	https://www.presiden	93	92	1
		cycollegechennai.ac.i	(100%)	(99%)	(1%)
		n/UI/DepartmentPag			
		<u>e.aspx</u>			
4	PSGR Krishnammal	https://www.psgrkcw	199	144	55
	College for Women	.ac.in/gr-	(100%)	(72%)	(28%)
		govindarajulu-			
		memorial-general-			
		library/			
5	St. Xavier`s College	https://www.sxccal.e	248	227	21
		du/central-library/	(100%)	(92%)	(8%)
6	Atma Ram Sanatan	https://www.arsdco	216	193	23
	Dharm College	llege.ac.in/index.ph	(100%)	(89%)	(11%)
		p/aboutlibrary/			
7	Loyola College	https://www.loyolaco	441	403	38
		llege.edu/library/prof	(100%)	(91%)	(9%)
		ile			
8	Rama Krishna	https://rkmvccrahara.	114	99	15
	Mission	org/viewalllist.aspx?i	(100%)	(87%)	(13%)
	Vivekananda	<u>d=29</u>			
	Centenary College				
9	Kirori Mal College	http://kmclibrary.s	29	21	8
		araswatilib.com/	(0%)	(72%)	(28%)



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10					~~
10	Lady Shri Ram	https://lsr.edu.in/stud	209	157	52
	College For Women	ents/facilities/library/	(100%)	(75%)	(25%)
11	Shri Ram College of	https://www.srcc.edu	0	0	0
	Commerce	<u>/library</u>	(0%)	(0%)	(0%)
12	Hans Raj College	https://www.hansrajc	198	191	7
		ollege.ac.in/infrastru	(100%)	(96%)	(4%)
		cture/library			
13	Sri Venkateswara	https://www.svc.a	198	165	33
	College	c.in/SVC_MAIN/Lib	(100%)	(83%)	(17%)
		rary/Library.php			
14	St. Stephens's College	https://www.ststephe	170	161	9
14	St. Stephens's Conege	ns.edu/library/	(100%)	(95%)	(5%)
15	Ramakrishna Mission	https://vidyamandi	0	0	0
15	Vidyamandira		(0%)	(0%)	(0%)
		ra.ac.in/	. ,	. ,	
16	Madras Christian	https://mcc.edu.in/lib	406	399	7
-	College	<u>rary-2/</u>	(100%)	(98%)	(8%)
17	Deshbandhu College	https://www.deshban	272	227	45
		dhucollege.ac.in/libr	(100%)	(83%)	(17%)
-		ary.php			
18	Thiagarajar College	https://www.tcarts.	29	24	5
		in/library/library.p	(100%)	(83%)	(17%)
		hp			
19	Ramakrishna	https://rkmrc.in/lib	176	141	35
	Mission Residential		(100%)	(80%)	(20%)
	College				
20	PSG College of Arts	https://www.psgca	306	193	113
-	and Science	s.ac.in/academics_1	(100%)	(63%)	(37%)
		ibrary.html	` '	, í	, í
		101 at y .11 at 11			

From the above Table 3 it is observed that the top twenty college's library web page, internal links and external links, Among top 20 colleges library webges. Loyola College 441(100%) total links and 403 (91%) internal Links followed by Madras Christian College with 399 (98%) internal links. PSG College of Arts and Science leads with 113 (37%) highest external links followed by PSGR Krishnammal College for Women with 55 (28%) external links. It was found that Ramakrishna Mission Vidyamandira had no internal and external links found in smallseotools.com.

Table 4: List of	colleges an	nd India	Rank and	Global Rank
	concests an			GIUNAI Italiii

Rank	NIRF ranking 2022 colleges	Library web page	India Rank	Global Rank
1	Miranda House	https://www.miranda house.ac.in/facilities/ library.php	122197	1725091
2	Hindu College	https://hinducollege.a c.in/library.aspx	111326	1559493
3	Presidency College	https://www.presiden cycollegechennai.ac.i n/UI/DepartmentPag e.aspx	-	I.
4	PSGR Krishnammal College for Women	https://www.psgrkcw .ac.in/gr-	47542	703957

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		govindarajulu-		
		memorial-general-		
		library/		
5	St. Xavier`s College	https://www.sxccal.e	15586	240844
	_	du/central-library/		
6	Atma Ram Sanatan	https://www.arsdco	57699	811933
	Dharm College	llege.ac.in/index.ph		
		p/aboutlibrary/		
7	Loyola College	https://www.loyolaco	28597	430345
		llege.edu/library/prof		
8	Rama Krishna	<u>ile</u>		9012525
0	Rama Krishna Mission	https://rkmvccrahara. org/viewalllist.aspx?i	-	9012323
	Vivekananda	$\frac{d}{d=29}$		
	Centenary College	<u> </u>		
9	Kirori Mal College	http://kmclibrary.s	-	_
	5	araswatilib.com/		
10	Lady Shri Ram	https://lsr.edu.in/stud	45519	642881
10	College For Women	ents/facilities/library/		0.2001
11	Shri Ram College of	https://www.srcc.edu	16991	250257
	Commerce	/library		
12	Hans Raj College	https://www.hansrajc	35587	507352
		ollege.ac.in/infrastru		
13	Cui Vaulateana	cture/library	100004	1500659
15	Sri Venkateswara College	https://www.svc.a	108804	1500658
	Conege	c.in/SVC_MAIN/Lib		
		rary/Library.php		4 61 0 0 4
14	St. Stephens's College	https://www.ststephe	32735	461084
15	Ramakrishna Mission	ns.edu/library/	80313	1173771
15	Vidyamandira	https://vidyamandi	80313	11/3//1
16		ra.ac.in/	21227	452205
16	Madras Christian College	https://mcc.edu.in/lib rary-2/	31327	452395
17	Deshbandhu College	https://www.deshban	45481	398303
17	Desnoundina Conege	dhucollege.ac.in/libr	10 101	570505
		ary.php		
18	Thiagarajar College	https://www.tcarts.	207659	3313677
		in/library/library.p		
		hp		
19	Ramakrishna	https://rkmrc.in/lib	58898	874501
	Mission Residential	rary/		
	College		BBCCCCCCCCCCCCC	
20	PSG College of Arts	https://www.psgca	39937	599417
	and Science	s.ac.in/academics_1		
		ibrary.html		

Table 4 shows the India rank and Global Rank of the top 20 Colleges library webpages in college category with the tools similarweb.com. After analysis, it was found that St. Xavier's College with the first position in Global Rank as well as in India Rank among all colleges followed by Shri Ram College of Commerce and Deshbandhu College in 2nd & 3rd position in Global Rank. Shri Ram College of Commerce with 2nd position in India Rank followed by Loyola College with 3rd position in India Rank. Presidency College not found any global and



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India rank in similarweb.com.

Conclusion :

This study investigates the library website of top 20 college ranked by NIRF in 2023. The paper investigates the library website, its domain age, domain registration, internal and external links of top 20 Colleges library websites and rank them orderly. NIRF is a method of ranking universities and colleges in India and acts as an independent body on the initiative of the Ministry of Education. A detailed study in this area is quite interesting and exploratory for the current status of library websites and will be more helpful to readers.(Narnaware & Rokade 2022). It was found that there exits websites of top 20 colleges websites listed by NIRF in 2023 and also found significant differences in number of internal link, and external link among the website of top 20 colleges listed in NIRF 2023. The paper resolved that Domain Authority of Loyola College and St. Stephens's College having common 39 highest score and Atma Ram Sanatan Dharm College website having the oldest domain registered on July 7, 2007. It was also resolved that 10 colleges from Delhi state were achieved place in NIRF 2023 ranked top 20 colleges of India. It is suggested that Kirorimal College and Thiagarajar College should improve its links for better accessibility and connectivity among college library websites. About St. Xavier`s got first rank in global rank but the college has 5th rank in NIRF 2023.

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