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Website analysis of physical education institutions in India

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Abstract---The paper was to analyze the websites of recognized Physical Education institutions of NCTE in India. The paper examines, the website page size (in bytes) and the Number of Web Pages, Total Links, Self Links, External Links and Backlink or Incoming Links also data were calculated as simple links web impact factor, self-links web impact factor, external links web impact factor and revised web impact factor, ranking to 100 websites of recognized Physical Education institutions of NCTE. VassarStats is online statistics software-Pearson correlation coefficient (r) was used to establish the association or closeness in ranking based on R-WIF and SWIF. Also this study, SocSciBot 4.0 has been used for created link topology. This study revealed main four aspects, 1) Simple Web Impact Factor (Website Quality), Gitanjali College of Physical Education-Sainthia was the first position with 1751.41 SWIF. 2) Revised Web Impact Factor (Website Popularity), Sri Ramakrishna Mission Vidyalaya Maruthi College of Physical Education-Coimbatore was the first position with 1580.00 is RWIF. 3) Pearson correlation coefficient (r) value is $r = -0.0048$ = this value meaning is 'Moderate Negative Correlation'. among Physical Education institutions of NCTE. 4) Link Topology, Website of Physical Education institutions was not well connected.

Keywords---Webometric, Physical Education Websites, Link Analysis, Web Impact Factors.

Introduction

Today, sources of things and information are changing to digitalize everything because it is necessary for their audience and the public to have access anywhere and at any time through the web. Webometric analysis is one of the well-known methods used by practioners of information science to analyse websites. Webometrics analysis is broadly classified into four major areas: 1) Content analysis of web pages, 2) Web link structure analysis (hyperlink) 3) Web usage analysis (users' searching behavior on the NET) and 4) Web technology analysis (together with search engine performance). Furthermore, ranking analysis has recently been developed based on the four major areas of webometrics. The contributions of webometrics ranking studies were conducted across all types of sectors of the digital world, particularly for the education sector. Many organizations give webometrics rankings to educational institutions both locally and internationally. For example, the Webometrics Ranking of World Universities (CSIC), Times Higher Education World University Ranking (WUR), QS World University Ranking (QS WUR), The Academic Ranking of World Universities (ARWU), CWTS Leiden Ranking, Scimago Institutional Ranking and the 'ShanghaiRanking's' from 2016 onwards give separate rankings to the "Sport Science Schools and Departments" with a unique methodology that has been followed via the Center for World-Class Universities, Graduate Faculty of Training at Shanghai Jiao Tong University, China, and updated on an annual basis. (Shanghairanking, 2022).

In India, National Institutional Ranking Framework (NIRF), and the National Assessment and Accreditation Council (NAAC) are evaluated entire educational institutions of source of things including website and give rank. The National Council for Teacher Education (NCTE) to monitor the teacher education system in India. It is a statutory body, and the main objective of NCTE is to plan and coordinate the development of a system of teacher education. Complete details of the NCTE recognized 100 physical education institutions in India are given in Annexure 1 (NCTE, 2022). India has nine exclusive universities for 'Physical Education and Sports' among the universities list, here listed are four universities only, and the remaining universities are included in analyzing part of this study.

Table 1. Status of Exclusive Universities for 'Physical Education and Sports' in India

S. No	University Name & Place	Short Name	St/Ut	Mgt	Rgn	Estd	Website address
1	National Sports University-Imphal	NSU	MN	CU	ER	2018	https://www.nsu.ac.in
2	Rajasthan Sports University-Jhunjhunu	RSU	RJ	SU	WR	2013	-
3	Sports University of Haryana-Sonipat	SUH	HR	SU	NR	2019	-
4	Delhi Sports University-Ghevra	DSU	DL	SU	NR	2021	-

Observed and Explanation of this table-1, the National Sports University (NSU)-Imphal is the one and one of central government fully funded and managed

university in India but NSU does not have NCTE recognized courses of Physical Education department. The NSU ran sports coaching-related courses only. The Rajasthan Sports University-Jhunjhunu, Sports University of Haryana-Sonipat and Delhi Sports University-Ghevra did not have a website address, during the analyzing part of this study.

Physical Education and Sports sector development of India is a most important part of this study because India people growth rate is very high when compare other countries so Physical Education institutions growth rate is very important for this nation and also addressed in this paper so below mentioned particular year wise growth rate counts of Physical Education institutions and overall growth by year wise also mentioned below the figure-1

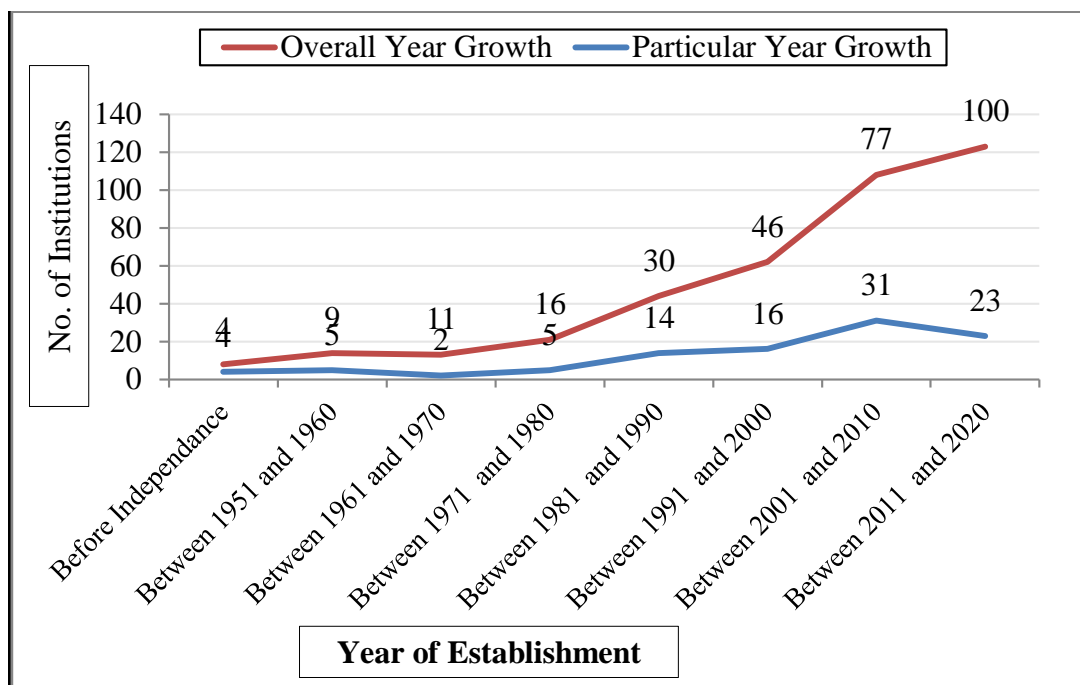
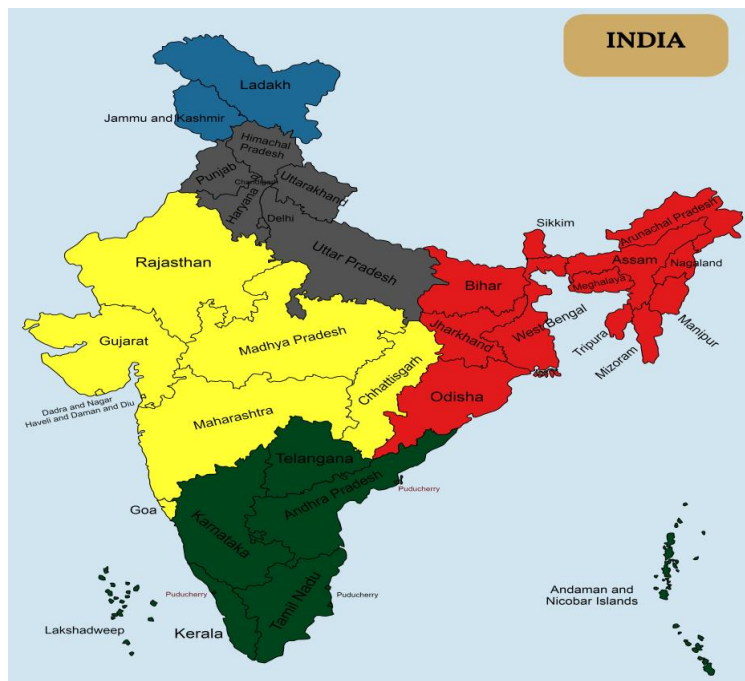


Figure 1. Classification of recognized Physical Education Institutions of India by year of their establishment

Figure 1, depicts the year of establishment of 100 Physical Education institutions in India. There was a phenomenal growth during 2001-2010; nearly 31 (31.00 percent) institutions were established during this period also noted that before the independence of India 4 (4.00 percent) institutions were established. First Physical Education College is the YMCA College of Physical Education was started in 1920 in Chennai. In the last 20 years, about 23 institutions have been established, which reflects the growth of higher education in India.

NCTE has been divided into four regions 1) Eastern Regional Committee (ERC) 2) Western Regional Committee (WRC) 3) Northern Regional Committee (NRC) and 4) Southern Regional Committee (SRC). Figure 2 shows the Regional committee-wise distribution of 100 Physical Education institutions in India.



NCTE REGIONS OF INDIA - PHYSICAL EDUCATION INSTITUTIONS

- South Region - Tamil Nadu, Andhra Pradesh, Karnataka, Lakshadweep, Puducherry, Kerala, Andaman & Nicobar and Telangana - 51
- East Region - Arunachal Pradesh, Manipur, Odisha, Assam, Meghalaya, Sikkim, Bihar, Mizoram, Tripura, Jharkhand, Nagaland and West Bengal - 17
- West Region - Gujarat, Goa, Maharashtra, Chhattisgarh, Dadra Nagar Haveli, Madhya Pradesh, Rajasthan and Daman and Diu - 26
- North Region - Chandigarh, Himachal Pradesh, Uttar Pradesh, Delhi, Punjab, Uttarakhand and Haryana - 6
- No in NCTE - Ladakh and Jammu & Kashmir - 0

Figure 2. NCTE Regional committee-wise distribution of Physical Education institutions of India.

The NCTE Regional committee-wise distribution of recognized Physical Education institutions in India is given in Figure 2. While South Region has the maximum number of 51 (51.00 percent) each, followed by West Region have 26 (26.00 percent) and East Region have 17 (17.00 percent) and North Region have 6 (6.00 percent). The NCTE members are 28 states 8 union territories and the Ladakh and Jammu & Kashmir is also union territory of India but officially not included in NCTE so as per the official website of NCTE and totally 35 entities. Meghalaya, Mizoram, Nagaland, Sikkim, Lakshadweep, Dadar & Nagar haveli, Daman & Diu, Andaman & Nicobar do not have any department for Physical Education institutions. The NCTE recognized seventeen programs including C.P.Ed, D.P.Ed, B.P.Ed, M.P.Ed. in Physical Education (NCTE, 2022). States and union territories-wise distribution of NCTE recognized Physical Education institutions of India list is shown below the figure-3.





Figure 3. States and Union Territories-wise distribution of NCTE recognized Physical Education institutions of India

The distribution of NCTE recognized Physical Education Institutions in India is given in Figure 3. More than 50 percent of Indian States and Union Territories have Physical Education Institutions in India. While Tamil Nadu has the maximum of 20 (20.00 percent) Physical Education Institutions, Andhra Pradesh has 15 (15.00 percent) followed by Maharashtra have 14 (14.00 percent) Physical Education Institutions, Karnataka has 10 (10.00 percent) Physical Education Institutions, West Bengal have 8 (10.00 percent) Physical Education Institutions, Chhattisgarh, West Bengal have 4 (4.71 percent) Physical Education Institutions, Punjab have 5 (5.00 percent) Physical Education Institutions, Telangana and Rajasthan have 4 (4.00 percent) Physical Education Institutions each, Orissa, Gujarat and Madhya Pradesh have 3 (3.00 percent) Physical Education Institutions each. Assam, Kerala Jharkhand and Chhattisgarh have 2 (2.00 percent) Physical Education Institutions each and Bihar, Tripura and Delhi have 1 (1.00 percent) each and white painted states and union territories are Ladakh, Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Chandigarh, Haryana, Uttar Pradesh, Sikkim, Arunachal Pradesh, Nagaland, Meghalaya, Manipur, Mizoram, Goa, Puducherry, Dadar & Nagar haveli, Daman & Diu, Lakshadweep, Andaman & Nicobar did not have Physical Education institutions in India.

Commonly in the education sector institutions are owned by three types of management in India so this paper analyzed the above-mentioned content. Hence, the management-wise distribution of NCTE recognized Physical Education institutions list given below in figure-1.

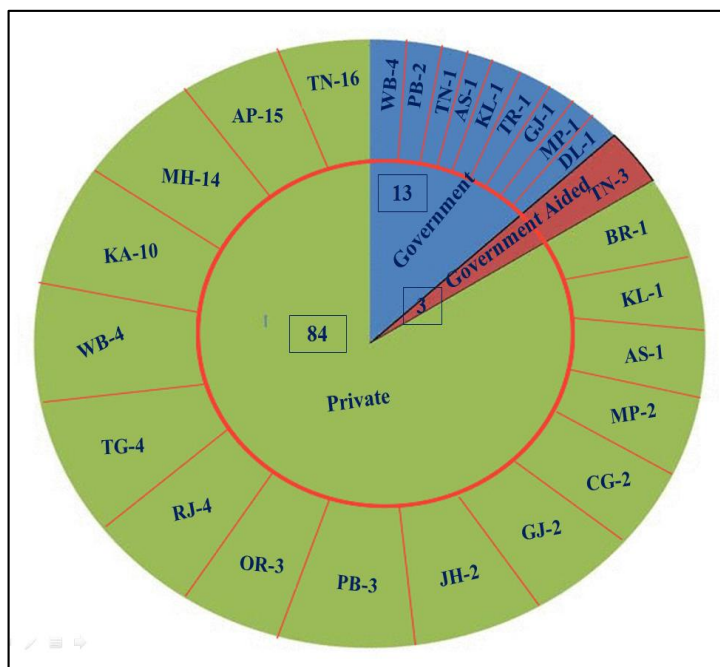


Figure 4. Institutions Management-wise distribution of NCTE recognized Physical Education institutions of India

The management-wise distribution of recognized Physical Education institutions in India is given in Figure 4. While the private management funded institutes have the maximum number of 84 (84.00 percent) and in this part, 16 states and union territories have the private management institutions in India among Tamil Nadu have 16 institutions followed by Andhra Pradesh have 15 institutions, followed by the government's funded institutions have 13 (13.00 percent) and in this part, 9 states and union territories have the government management institutions in India among West Bengal have 4 institutions followed by Punjab have 2 institutions. Institutions management-wise, the government-aided institutions have 3 (3.00 percent) in India and the government-aided institutions in Tamil Nadu state only in NCTE recognized Physical Education Institutions in India. This research focuses on link analysis of NCTE-approved Physical Education institutions in India and their websites.

Review of Literature

(Bossy, 1995) observed the effect of the internet on scientific communities and consequently on scientometrics. Internet-mediated scientific communication was not an object of methodical observation by scientometricians. (Rousseau, 1997) examined the distribution of top-level domain names and distribution of various types of links between websites. The Lotka function has been explained in this

study. (Ingwersen, 1998) analyzed national level seven small and medium scale national and four large website domains as well as six college websites, over a series of snapshots taken of the website during a month. The data isolation and computation methods are explained and the tests are discussed. The results revealed that WIFs should be approached with caution. (Bjorneborn and Ingwersen, 2001) observed areas of webometrics research and problems associated with measured Web Impact Factors (WIF). The authors of this study have outlined new directions of webometrics, for performing knowledge discovery on the website, partly based on bibliometric method. (Smith and Thelwall, 2002) discussed the results of an exploratory study of information exchange between disciplines and subfields of science, based on bibliometric methods. (Wilkinson, et.al. 2003) analyzed the recent progress in the library and information science approach and presented the current techniques for takeout usable information from website links. (Sujithai, et.al. 2013) evaluated the webpages in the websites of Indian institute of technology retrieved through a commercial search engine and tested by the histogram, scatter plot and the line of greatest fit for its reliability and then by regression analysis, with help of SPSS package. They found that the external link webpages provided more than other link web pages. (Bakkiyaraj, 2017) analyzed the websites of Physical Education and Sports Universities in India, using SimilarWeb Limited software and Cybermetrics Lab ranking system. The result revealed that the LNIPE website had received a better ranking in traffic and the visit by audience. (Jeyshankar, 2019) applied to Webometrics analysis to the website of deemed universities in India. This study covered 125 deemed universities in India. This study area into State, Central, Deemed and Private Universities and calculated the Internal Link, External Link, backlink and size of the website.

Significance and Scope of Study

A very small amount of webometric studies has been conducted in the field of Physical Education and sports in India and outside countries, to assess the websites but no detailed studies have been conducted on websites of Physical Education departments. The present study applied the web impact factor method within to NCTE recognized 100 Physical Education courses offered department website, as listed in annexure-1.

Objectives of the Study

The main objective of the paper was to analyze the websites of NCTE recognized Physical Education Institutions, of India.

1. To study the types of the top-level domain of recognized Physical Education Institutions websites of NCTE.
2. To assess the websites by measuring the web-based indicators such as the domain size in bytes & percentage, the total number of webpages & percentage, total number of links & percentage, number of self-links & percentage, number of external links & percentage, and number of incoming links & percentage of recognized Physical Education Institutions of NCTE.
3. To calculate Simple links WIF (Web Impact Factor), Self-links WIF, External links WIF and Revised WIF.

4. To rank, the recognized Physical Education Institutions' websites based on the SWIF (Website Quality) and RWIF (Website Popularity) of NCTE of India.
5. To establish the correlation between SWIF (Website Quality) and R-WIF (Website Popularity) of websites of Physical Education Institutions websites in India using Pearson correlation coefficient.
6. To generate a link topology among all the recognized Physical Education Institutions Websites of NCTE in India.

Methodology

For this study, data of the National Council Teacher Education (NCTE) recognized Physical Education Institutions and their official website address were collected from NCTE-official website (<https://ncte.gov.in/website/index.aspx/>), on 20th and 21st May 2022. 100 websites of recognized Physical Education Institutions were considered for the webometric analysis. An observation method was used to conduct this research work.

Each website was conducted with cross verified by the investigators through online search. Quantitative analysis of the study indicators list and online software for data extracting purpose details are mentioned in below Table 2.

Table 2: List of Web-based indicators, Software and Website Address

S.No.	Web-based indicators	Software	Website Address
1.	Website Page Size (in bytes)	Small SEO Tools	https://smallseo.tools/
2.	Number of Web Pages (NWP)		
3.	Total Links (TLs)	WebConfs.com	https://www.webconfs.com/
4.	Self Links (SLs)		
5.	External Links (ELs)		
6.	Back Link or Incoming Links(ILs)	Ahrefs	https://ahrefs.com/

Small SEO tools, WebConfs.com and Ahrefs were provided comprehensive details, about the website page size (in bytes) and Number of Web Pages (NWP), Total Links (TLs), Self Links (SLs), External Links (ELs) and Back Link or Incoming Links (ILs) of all 100 Physical Education Institutions Websites taken up for the study.

In this study data of calculation method was simple calculation method used and data were calculated as simple links web impact factor (SWIF), Self-Links Web Impact Factor (SLWIF), External Links Web Impact Factor (ELWIF) and Revised Web Impact Factor (R-WIF) ranking websites of recognized Physical Education Institutions of NCTE.

Vassar Stats online Statistics software-Pearson correlation coefficient (r) was used to establish the association or closeness in ranking based on SWIF and R-WIF. As well as SocSciBot 4.0 (<http://socscibot.wlv.ac.uk/>) has been used for this study for the reason that it is generally used and tested by many webometricians to validate the results and in addition to finding out a microstructure of web relationships within websites. Another tool, used for visualization of links relationship, is Pajek3.1. This powerful visualization tool is embedded with

SocSciBot. The information flow for visualizing the network diagram can be explained as in Figure 5.



Figure. 5 - Information flows for building the network diagram.
Web Impact Factor

Web Impact Factor (WIF) is a measure of the standard number of webpage on the web in a website, which has been linked, at a given point in time. Websites with higher impact factors may be considered to be of a higher standard and websites, with a lower impact factor, may be considered to be of lower quality. The WIF provides quantitative tools for ranking, categorizing, evaluating and comparing websites and domains. In webometrics, the WIF is also used to determine the relative standing of websites in academic websites in a country (Noruzi, 2006).

Four types of Web Impact Factors and Calculation Method.

1. The Simple WIF

The ratio of all links to the number of pages.

$$\text{Simple WIF} = \frac{\text{Total Links}}{\text{Total web pages}}$$

2. The self WIF

The ratio of self-links within the site to the number of pages.

$$\text{Self Link WIF} = \frac{\text{Total Self-Links}}{\text{Total web pages}}$$

3. The External WIF

The ratio of links made from external sites to the target site, to the number of pages at the site.

$$\text{External WIF} = \frac{\text{Total External Links}}{\text{Total web pages}}$$

4. The Revised WIF

The ratio of the number of links, that a particular site received from other sites.

$$\text{Revised WIF} = \frac{\text{Total In-Links}}{\text{Total web pages}}$$

This is the method for the calculation of the standard of the website of any type of domain in the field of academic, business and entertainment so on (Almind, 1997).

Top-Level Domain, Webpage and Webpage size

A domain name is a human-friendly text form of the IP address. Instead of using a series of digits in a computer; the domain name system organizes addresses, in a more user-friendly way. It was created by ARPANET (Halvorson, et al. 2012). A webpage is a "page" of the World Wide Web (WWW), usually in HTML format and with hypertext links, to enable navigation from one page or section to another page (Zhu, et al. 2007). Website page size is the size of Specific Uniform Resource Locator (URL) (Jalal, et al. 2010).

Data Analysis and Interpretation

Distinctive analyses of information with interpretations had been offered on this segment. The information amassed from numerous internet resources is quantitatively analyzed to fulfill the objectives. Information was systematically categorized, tabulated, analyzed and interpreted in the following way.

Table 3: Domain-wise distribution of Websites

Types of Top-Level Domain	Total Domain	Percentage of Domain	Rank
.org	30	30.00	1
.com	20	20.00	2
.in	19	19.00	3
.ac.in	10	10.00	4
.edu.in	5	5.00	5
.co.in	5	5.00	5
.org.in	3	3.00	7
.gov.in	3	3.00	7
.edu	1	1.00	9
.net	1	1.00	9
business.site	1	1.00	9
business.in	1	1.00	9
business.com	1	1.00	9
Total	100	100	13

Table 3 shows that the .org occupied the first position among top-level domains with 30 (30.00 percent) and the second position was secured by .com, with 20 (20.00 percent). The third position was secured by .in, with 19 (19.00 percent) and the fourth position was secured by .ac.in, with 10 (10.00 percent). The fifth position was shared by .edu.in and .co.in, with 5 (5.00 percent). .org.in and .gov.in shared the sixth position with each 3 (3.00 percent) and remain domain of .edu, .net, business.site, business.in and business.com were shared and secured the last position with 1 (1.00 percent). There were 13 types of domains and entitles of 100 Physical Education Institutions websites in NCTE of India.

Table 4: Status of Web page size, Number of web pages, Total links, Self links, External links and Backlinks of Physical Education Institutions in NCTE of India.

S. No	Institutions Short Name & Place	Page Size in kb	Number of Web Pages	Total Links	Internal Links	External Links	Back Links
1	ACPE-Sangrur	69	66	48	46	2	657
2	SSCPE-Tumkur	441	1	1	1	1	9
3	SSPMCE-Pimpri	473	0	0	0	0	10
4	DRCPE-East Godavari	732	22	1	1	1	2
5	SLBC-Allagadda	1226	1	3	3	1	1
6	SDPPTC-Bikaner	4508	0	3	3	0	0
7	MIPE-Mandsaur	4938	1	19	0	19	150
8	SDCPE- Guntur	5054	12	6	1	6	7
9	VJCPPE-Krishna	6174	6	8	7	1	7
10	VIKCPPE-Vijayawada	6188	6	9	8	1	9
11	KCPPE-Mavli	6559	0	19	8	11	7
12	VJPCPE-Mogri	7109	1290	110	109	1	654
13	NSCPE-Abhanpur	7132	129	48	41	7	8
14	SSACPE- Gandepalli mandal	7687	2690	27	27	1	19141
15	MSSCPE-Jalna	7751	24	11	11	0	5
16	PIEPE-Chanak	7803	25	7803	17	0	0
17	CCPE-Thrissur	9046	16	9	9	1	20
18	TCPE-Muzaffarpur	9111	0	21	1	20	49
19	ACPE-Kakinada	9243	2710	26	25	1	19131
20	PMCPE-Cuttack	9444	33	9444	28	0	21
21	SVBC-Podili	10529	1	2	2	1	1
22	PSMPE-Theni	10734	58	9	7	2	75
23	SSPMCPE-Kautha	11101	7	9	8	1	0
24	SJPE-Tirunelveli	11306	11	17	9	8	90
25	SSBBC-Chitradurga	11596	10	19	17	2	1
26	MTCPE-Pudukkottai	11618	11	16	16	1	2
27	Dr.SACPE-Tiruchendur	12322	82	22	22	1	219
28	SBCPE-Veppur	12351	1	6	6	1	4
29	SKVCPE-Chikkaballapur	12799	40	23	23	1	9
30	CCPE-Sangrur	13213	15	20	17	3	1
31	SSSM-Wardha	13541	0	18	18	0	168
32	PGGIPE-Banipur	14103	39	14103	40	2	22

33	SIDCPE-Ibrahimpattanam	14437	25	35	32	3	1
34	SSPCPE-Anand	14924	28	9	9	0	65
35	SVCPE-Srikakulam	15158	1	7	6	1	1
36	SIPEW-Alipore	15526	51	15526	32	7	30
37	SVPE-Kadiri	15605	11	12	11	1	168
38	SSCPEW-Salem	15687	62	24	22	2	7
39	GPECW-Hooghly	15865	21	15865	24	8	14
40	BGSCPE- Bengaluru	16044	25	7	7	1	8
41	GCPEW- Dinhata	16092	26	16092	54	8	16
42	RCPE-Cuddapah	16623	24	22	16	6	7
43	KRCPE-Bobbilli Mandal	17723	50	17	16	1	7
44	DSCPE-Perambalur	18031	42	60	60	1	85
45	HVSKMPEC-Yavatmal	18184	39	40	38	2	13
46	SRCPE-Tiruvannamalai	19447	1	71	70	1	29
47	NCPE-Chupki	19645	21	12	12	0	9
48	BPCA-Wadala	19957	248	31	31	0	74
49	PCPE-Visakhapatnam	21470	81	21	20	1	12
50	LNCPE-Thiruvananthapuram	21583	443	55	45	10	1160
51	GCPE-Bhubaneswar	22510	114	22510	64	2	10
52	MPEC-Ariyalur	22555	13	5	4	1	12932
53	JCPE-Tiruchirapalli	23234	5	25	22	3	4
54	SBNTTC-Jaipur	23363	62	62	52	10	176
55	SESCPE-Jalgaon	23570	71	34	32	2	266
56	SSEAAACPE-Amaravati	23901	121	63	49	14	11
57	BCPE-Baliapal	24143	79	24143	53	0	1217
58	KACPE-Koviloor	25821	77	29	27	4	5
59	MASS-Vilupuram	25978	1	28	20	5	1
60	NCPE-Jangareddy Gudem	26761	31	38	32	6	3
61	APTTC-Suroth	29404	18	21	20	1	26
62	CENCPE-Chitradurga	29958	440	38	37	1	1433
63	SCPE-Namakkal	30046	21	26	23	3	17
64	SPRCPE-Gadag	31075	7	1	1	1	33
65	SKCPE-Gannavaram	31525	16	17	15	2	67
66	CCPE-Karur	31654	12	24	21	3	61
67	RCPE-North Tripura	32060	603	32060	65	3	218
68	SSASU-Dibrugarh	32533	0	39	36	3	536
69	YMCA-Bangalore	33050	1	16	16	1	159
70	MGKMSSCPE-Jhakrudi	33350	40	25	24	1	53
71	YMCA-Chennai	35346	59	44	41	3	28
72	CTE-Belgaum	36521	26	49	46	3	18
73	YCCPE-Mangrulpir	38904	262	42	38	4	1
74	KRCPE-Dindigul	46683	115	62	54	8	25368
75	GITJCPE-Sainthia	47288	27	47288	46	4	4
76	BVUCPE-Pune	48636	37	25	20	5	156
77	SRSIPE-Raipur	50559	27	26	17	9	3
78	JCBSSM-Domjur	51587	0	42	38	4	25
79	SCPE-Gondia	51784	1990	33	29	4	191

80	GKCPE-Haliya	57053	1	62	16	46	1
81	CACPE-Gultekdi	58851	66	65	53	12	118
82	SRSIPE-Gwalior	61867	48	53	48	5	13
83	TNPESU-Chennai	63066	470	41	40	1	145900
84	ACPE-Mangalore	63646	25	54	43	11	28569
85	SKCPE-Miryalaguda	68080	25	80	1	79	1
86	Dr.MMRCPE- Choutuppal	70148	60	44	42	2	2
87	CHRCPE-Nagercoil	82767	31	25	22	3	19
88	SRMVMCPE-Coimbatore	84340	1	137	135	2	1580
89	MBSPSU-Patiala	87033	0	122	109	13	804
90	SBVNCPE-Kolar	99872	52	10	10	1	1
91	IGIPESV-Vikaspuri	103660	392	157	136	21	300
92	LNIPPE-Gwalior	114112	368	104	88	16	2027
93	GSIPE- Kangeyam	154327	1	33	11	22	1
94	MESVCPE-Raigad	160516	110	81	66	15	115
95	LNIPPE-Guwahati	1199159	3160	3129	124	15	2990
96	SGPU-Gandhinagar	0	0	0	0	0	1510
97	RGCPE-Ramgarh	0	0	0	0	0	112
98	RCCPE-Bishrampur	0	0	0	0	0	0
99	SDMC-Murshidabad	0	0	0	0	0	67
100	NSSM-Nagpur	0	33	20	19	1	164

Observed from Table 4, Page Size in a kilobyte, Akal College of Physical Education-Sangrur was the first position with 69, followed by Sree Siddaganga College of Physical Education-Tumkur was the second position with 441 and Shri Shivaji Prasarak Mandal's College of Education-Pimpri was the third position with 473. Goggle indexed Webpages, Lakshmbai National Institute of Physical Education -Guwahati was the first position with 3160, followed by Aditya College of Physical Education-Kakinada was the second position with 2710 and Sri Sai Aditya College of Physical Education- Gandepalli mandal was the third position with 2690. Total Links, Gitanjali College of Physical Education-Sainthia was the first position with 47288, followed by Regional College of Physical Education-North Tripura was the second position with 32060, Baliapal College of Physical Education-Baliapal was the third position with 24143. Internal Links, Indira Gandhi Institute of Physical Education and Sports Sciences-Vikaspuri was the first position with 136, followed by Sri Ramakrishna Mision Vidyalaya Maruthi College of Physical Education-Coimbatore was the second position with 135 and Lakshmbai National Institute of Physical Education -Guwahati was the third position with 124. External Links, Sri Krishna College of Physical Education - Miryalaguda was the first position with 79, followed by Gopala Krishna College of Physical Education-Haliya was the second position with 46 and Good Samaritan Institute of Physical Education- Kangeyam was the third position with 22. Back Links, Tamil Nadu Physical Education and Sports University-Chennai was the first position with 145900, followed by Alva's College of Physical Education-Mangalore was the second position with 28569 and K.R. College of Physical Education-Dindigul was the third position with 25368.

The website page size in kilobyte was lowest to maximum listed on this writing table because According to Seoptimer.com. (2022), the page size is continually

under 12 KB, which internet site is loaded quickly also SEO (Search Engine Optimization) performance is always good on NET. Also noted is the Swarnim Gujarat Sports University-Gandhinagar, Nagpur Sharirik Shikshan Mahavidyalaya-Nagpur, Radha Govind College of Physical Education-Ramgarh, Sunil Dhar Memorial B.P.Ed. College-Murshidabad and Ramchandra Chandravansi College of Physical Education-Bishrampur of websites were not responding well to when crawler, meaning consequences shown on this file can be incomplete, or faulty. It is probably there is a firewall or different security mechanism in the location stopping us from viewing the content efficiently. Otherwise, all types of links in percentage were listed highest to lowest of values.

Table 5: Status of simple web impact factor and rank, self-link web impact factor and rank external link web impact factor and rank, revised web impact factor and rank of NCTE recognized Physical Education institutions website in India.

S. No	Institutions Short Name & Place	SWIF	R a n k	SLWIF	R a n k	ELWIF	R a n k	RWIF	R a n k
1	SRMVMCPE-Coimbatore	137.00	10	135.00	1	0	6	1580.00	1
2	ACPE-Mangalore	2.16	23	1.72	15	0.44	17	1142.76	2
3	MPEC-Ariyalur	0.38	67	0.31	66	0.08	45	994.77	3
4	TNPESU-Chennai	0.09	82	0.09	78	0.00	-	310.43	4
5	KRCPE-Dindigul	0.54	60	0.47	56	0.07	46	220.59	5
6	YMCA-Bangalore	16.00	17	16.00	4	1.00	7	159.00	6
7	MIPE-Mandsaur	19.00	16	0.00	-	19.00	3	150.00	7
8	SRCPE-Tiruvannamalai	71.00	11	70.00	2	1.00	7	29.00	8
9	BCPE-Baliapal	305.61	6	0.67	44	0.00	-	15.41	9
10	SVPE-Kadiri	1.09	40	1.00	30	0.09	43	15.27	10
11	ACPE-Sangrur	0.73	52	0.70	40	0.03	58	9.95	11
12	SSCPE-Tumkur	1.00	43	1.00	30	1.00	7	9.00	12
13	SJPE-Tirunelveli	1.55	28	0.82	37	0.73	14	8.18	13
14	SSACPE- Gandepalli mandal	0.01	87	0.01	85	0.00	-	7.12	14
15	ACPE-Kakinada	0.01	87	0.01	85	0.00	-	7.06	15
16	LNIPPE-Gwalior	0.28	72	0.24	70	0.04	56	5.51	16
17	CCPE-Karur	2.00	24	1.75	14	0.25	21	5.08	17
18	NSSM-Nagpur	0.61	56	0.58	50	0.03	58	4.97	18
19	SPRCPE-Gadag	0.14	79	0.14	73	0.14	31	4.71	19
20	BVUCPE-Pune	0.68	54	0.54	55	0.14	31	4.22	20
21	SKCPE-Gannavaram	1.06	41	0.94	34	0.13	37	4.19	21
22	SBCPE-Veppur	6.00	19	6.00	7	1.00	7	4.00	22
23	SESCPE-Jalgaon	0.48	63	0.45	58	0.03	58	3.75	23
24	CENCPE-Chitradurga	0.09	82	0.08	79	0.00	-	3.26	24
25	SBNTTC-Jaipur	1.00	43	0.84	36	0.16	29	2.84	25
26	Dr.SACPE-Tiruchendur	0.27	74	0.27	68	0.01	72	2.67	26

27	LNCPE-Thiruvananthapuram	0.12	81	0.10	77	0.02	66	2.62	27
28	SSPCPE-Anand	0.32	71	0.32	63	0.00	-	2.32	28
29	DSCPE-Perambalur	1.43	31	1.43	19	0.02	66	2.02	29
30	CACPE-Gultekdi	0.98	46	0.80	38	0.18	26	1.79	30
31	VIKCPE-Vijayawada	1.50	29	1.33	20	0.17	27	1.50	31
32	APTTC-Suroth	1.17	38	1.11	26	0.06	47	1.44	32
33	MGKMSSCPE-Jhakroudi	0.63	55	0.60	48	0.03	58	1.33	33
34	PSMPE-Theni	0.16	77	0.12	75	0.03	58	1.29	34
35	CCPE-Thrissur	0.56	59	0.56	53	0.06	47	1.25	35
36	VIJCPE-Krishna	1.33	33	1.17	22	0.17	27	1.17	36
37	MESVCPE-Raigad	0.74	51	0.60	48	0.14	31	1.05	37
38	SVBC-Podili	2.00	24	2.00	12	1.00	7	1.00	38
39	SLBC-Allagadda	3.00	22	3.00	10	1.00	7	1.00	38
40	SVCPE-Srikakulam	7.00	18	6.00	7	1.00	7	1.00	38
41	MASS-Vilupuram	28.00	15	20.00	3	5.00	4	1.00	38
42	GSIPE- Kangeyam	33.00	14	11.00	6	22.00	2	1.00	38
43	GKCPE-Haliya	62.00	12	16.00	4	46.00	1	1.00	38
44	LNPE-Guwahati	0.99	45	0.04	83	0.00	-	0.95	44
45	SCPE-Namakkal	1.24	36	1.10	27	0.14	31	0.81	45
46	JCPE-Tiruchirapalli	5.00	20	4.40	9	0.60	15	0.80	46
47	IGIPSS-Vikaspuri	0.40	65	0.35	60	0.05	49	0.77	47
48	CTE-Belgaum	1.88	27	1.77	13	0.12	38	0.69	48
49	GPECW-Hooghly	755.48	2	1.14	23	0.38	18	0.67	49
50	PMCPE-Cuttack	286.18	8	0.85	35	0.00	-	0.64	50
51	GCPEW- Dinhata	618.92	3	2.08	11	0.31	20	0.62	51
52	CHRCPE-Nagercoil	0.81	49	0.71	39	0.10	41	0.61	52
53	SIPEW-Alipore	304.43	7	0.63	46	0.14	31	0.59	53
54	SDCPE- Guntur	0.50	62	0.08	79	0.50	16	0.58	54
55	PGGIPE-Banipur	361.62	4	1.03	28	0.05	49	0.56	55
56	VJPCPE-Mogri	0.09	82	0.08	79	0.00	-	0.51	56
57	YMCA-Chennai	0.75	50	0.69	42	0.05	49	0.47	57
58	NCPE-Chupki	0.57	58	0.57	52	0.00	-	0.43	58
59	RCPE-North Tripura	53.17	13	0.11	76	0.00	-	0.36	59
60	HVSKMPEC-Yavatmal	1.03	42	0.97	33	0.05	49	0.33	60
61	BGSCPE- Bengaluru	0.28	72	0.28	67	0.04	56	0.32	61
62	BPCA-Wadala	0.13	80	0.13	74	0.00	-	0.30	62
63	RCPE-Cuddapah	0.92	48	0.67	44	0.25	21	0.29	63
64	SRSIPE-Gwalior	1.10	39	1.00	30	0.10	41	0.27	64
65	SKVCPE-Chikkaballapur	0.58	57	0.58	50	0.03	58	0.23	65
66	MSSCPE-Jalna	0.46	64	0.46	57	0.00	-	0.21	66
67	MTCPE-Pudukkottai	1.45	30	1.45	18	0.09	43	0.18	67
68	PCPE-Visakhapatnam	0.26	75	0.25	69	0.01	72	0.15	68
69	GITJCPE-Sainthia	1751.41	1	1.70	16	0.15	30	0.15	68
70	KRCPE-Bobbilli Mandal	0.34	70	0.32	63	0.02	66	0.14	70
71	SSCPEW-Salem	0.39	66	0.35	60	0.03	58	0.11	71
72	SRSIPE-Raipur	0.96	47	0.63	46	0.33	19	0.11	71
73	SCPE-Gondia	0.02	86	0.01	85	0.00	-	0.10	73

74	NCPE-Jangareddy Gudem	1.23	37	1.03	28	0.19	25	0.10	73
75	SSBBC-Chitradurga	1.90	26	1.70	16	0.20	23	0.10	73
76	DRCPE-East Godavari	0.05	85	0.05	82	0.05	49	0.09	76
77	SSEAAACPE-Amaravati	0.52	61	0.40	59	0.12	38	0.09	76
78	GCPE-Bhubaneswar	197.46	9	0.56	53	0.02	66	0.09	76
79	CCPE-Sangrur	1.33	33	1.13	25	0.20	23	0.07	79
80	NSCPE-Abhanpur	0.37	69	0.32	63	0.05	49	0.06	80
81	KACPE-Koviloor	0.38	67	0.35	60	0.05	49	0.06	80
82	SIDCPE-Ibrahimpattam	1.40	32	1.28	21	0.12	38	0.04	82
83	SKCPE-Miryalaguda	3.20	21	0.04	83	3.16	5	0.04	82
84	Dr.MMRCPE- Choutuppal	0.73	52	0.70	40	0.03	58	0.03	84
85	SBVNCPE-Kolar	0.19	76	0.19	71	0.02	66	0.02	85
86	YCCPE-Mangrulpur	0.16	77	0.15	72	0.02	66	0.00	-
87	SSPMCPE-Kautha	1.29	35	1.14	23	0.14	31	0.00	-
88	PIEPE-Chanak	312.12	5	0.68	43	0.00	-	0.00	-
89	SSPMCE-Pimpari	0.00	-	0.00	-	0.00	-	0.00	-
90	SDPPTTC-Bikaner	0.00	-	0.00	-	0.00	-	0.00	-
91	KCPE-Mavli	0.00	-	0.00	-	0.00	-	0.00	-
92	TCPE-Muzaffarpur	0.00	-	0.00	-	0.00	-	0.00	-
93	SSSM-Wardha	0.00	-	0.00	-	0.00	-	0.00	-
94	SSASU-Dibrugarh	0.00	-	0.00	-	0.00	-	0.00	-
95	JCBSSM-Domjur	0.00	-	0.00	-	0.00	-	0.00	-
96	MBSPSU-Patiala	0.00	-	0.00	-	0.00	-	0.00	-
97	SGPU-Gandhinagar	0.00	-	0.00	-	0.00	-	0.00	-
98	RGCPE-Ramgarh	0.00	-	0.00	-	0.00	-	0.00	-
99	RCCPE-Bishrampur	0.00	-	0.00	-	0.00	-	0.00	-
100	SDMC-Murshidabad	0.00	-	0.00	-	0.00	-	0.00	-

The data in Table 5 exhibits the web impact factors among, the Revised Web Impact Factor (RWIF), Sri Ramakrishna Mission Vidyalaya Maruthi College of Physical Education-Coimbatore was ranked first, with R-WIF being 1580.00, SWIF ranked 10 with 137.00, SLWIF ranked 1 with 135.00, and ELWIF ranked 6 with 2.00. The Alva's College of Physical Education-Mangalore was ranked second with R-WIF being 1142.76, SWIF ranked 23, with 2.16, SLWIF ranked 15 with 1.72 and ELWIF ranked 17 with 0.44. The Meenatchi Physical Education College - Ariyalur was ranked third with R-WIF being 994.77, SWIF ranked 67, with 0.38, SLWIF ranked 66 with 0.31 and ELWIF ranked 45 with 0.08.

According to the Simple Web Impact Factor (SWIF), Gitanjali College of Physical Education-Sainthia was ranked first, with SWIF being 1751.41, SLWIF ranked 16 with 1.70, ELWIF ranked 30 with 0.15 and R-WIF ranked 68 with 0.15. Simple web impact factor (SWIF), Govt. Physical Education College for Women-Hooghly was ranked second, with SWIF being 755.48, SLWIF ranked 23 with 1.14, ELWIF ranked 18 with 0.38 and R-WIF ranked 49 with 0.67. The Govt. College of Physical Education for Women-Dinhata was ranked third with SWIF being 618.92, SLWIF ranked 11, with 2.08, ELWIF ranked 20 with 0.31 and R-WIF ranked 51 with 0.62.

According to the Self Link Web Impact Factor (SLWIF), The Sri Ramakrishna Mission Vidyalaya Maruthi College of Physical Education-Coimbatore was ranked first, with SLWIF being 135.00. SWIF, ranked 10 with 137.00, ELWIF, ranked 6 with 2.00 and RWIF, ranked 1 with 1580.00. Self-link web impact factor (SLWIF), The Sri Renugambal College of Physical Education-Tiruvannamalai was ranked second, with SLWIF being 70.00. SWIF, ranked 11 with 71.00, ELWIF, ranked 7 with 1.00 and RWIF, ranked 8 with 29.00. Self-link web impact factor (SLWIF), The MASS College of Physical Education-Vilupuram was ranked third, with SLWIF being 20.00. SWIF, ranked 15 with 28.00, ELWIF, ranked 4 with 5.00 and RWIF, ranked 38 with 1.00.

According to the External Link Web Impact Factor (ELWIF), Gopala Krishna College of Physical Education-Haliya was ranked first, with ELWIF being 46.00 and SWIF ranked 12 with 62.00. SLWIF ranked 4 with 16.00, and R-WIF ranked 38 with 1.00. External Link Web Impact Factor (ELWIF), Good Samaritan Institute of Physical Education- Kangeyam was ranked second, with ELWIF being 22.00 and SWIF ranked 14 with 33.00. SLWIF ranked 6 with 11.00, and R-WIF ranked 38 with 1.00. External Link Web Impact Factor (ELWIF), Mandsaur Institute of Physical Education-Mandsaur was ranked third, with ELWIF being 19.00 and SWIF ranked 16 with 19.00. SLWIF ranked 0 with 00.00, and R-WIF ranked 7 with 150.00.

Pearson correlation coefficient:

VassarStats-Pearson correlation coefficient (r), online statistics software is used to establish the association or closeness for ranking based on RWIF and SWIF. The coefficient can be calculated using the following formula.

$$\text{Formula (r)} = \frac{n(\sum xy) - (\sum x)(\sum y)}{\sqrt{[n\sum x^2 - (\sum x)^2][n\sum y^2 - (\sum y)^2]}}$$

Where n = Number of College, $\sum x$ = Total of R-WIF, $\sum y$ = Total of WIF, $\sum xy$ = Sum of the product of R-WIF and WIF, $\sum x^2$ = Sum of the square of R-WIF and $\sum y^2$ = Sum of the square of WIF.

N=100	$\sum X$ =4741.26	$\sum Y$ =5386.41
$\sum XY$=233628.9336	$\sum X^2$ =4986573.6434	$\sum Y^2$ =4589559.9269
r	-0.0048	

r = -0.0048 = This value meaning is '**Moderate Negative Correlation**'.

Hence, the value of r indicates Moderate Negative relationship between R-WIF and WIF. In other word, there is moderate negative variation or and moderate negative differences between the R-WIF and WIF.



Figure 6: Link Topology of the recognized website of Physical Education Institutions in India

It can be seen from Figure 6 that websites of recognized Physical Education institutions in India are not connected and one institution is only linked given to with their higher authority of the university. Jenneys college of Physical Education-Tiruchirapalli given linked to Tamil Nadu Physical Education and Sports University-Chennai as an I-shaped link topology has been formed between them. There is not a significant web-based association among the website of the NCTE recognized Physical Education institutions of India.

Major Findings

1. 100, NCTE recognized Physical Education institutions in India.
2. Year of Establishment, between 2001 and 2010 has started maximum institutions with 31 (31 Percent). Also noted is the Before Independence of India 4 (4.00 Percent) institutions were started.
3. NCTE Regional committee-wise distribution of Physical Education institutions of India is the South Region has the highest number of institutions with 51 (51.00 Percent) and North Region has the lowest number of institutions with 6 (6.00 Percent).
4. Regarding the State-wise distribution of NCTE Recognized Physical Education institutions of India is Tamil Nadu has a maximum number of institutions with 20 (20.00 Percent) also noted that Bihar, Tripura and Delhi are the Lowest number of institutions with 1 (1.00 percent) each.
5. Institutions Management-wise (funded by) distribution of NCTE Recognized Physical Education institutions of India, the Private Managements funded institutions has high numbers of 84 (84.00 percent) in this research work.
6. Government management funded institutions wise the West Bengal has secured first place with 4 and government-aided and private managements funded institutions wise the Tamil Nadu has secured first place with 3 and 16 respectively.
7. Totally 9 universities through this study pinned the exclusive Universities for 'Physical Education and Sports' in India among these, table-2 in 4

Universities were not included of analyzing part of the study because criteria of this study and Universities website not working properly.

8. '.org' (organization) is the top-level domain that has occupied more than 30% of NCTE recognized Physical Education institutions' websites in India.
9. Page Size in a kilobyte, Akal College of Physical Education-Sangrur was first in this study, which means website loaded is quickly on NET.
10. Goggle Indexed Webpages, Lakshmbai National Institute of Physical Education -Guwahati of website, pages has indexed in high numbers of this study.
11. Total Links, Gitanjali College of Physical Education-Sainthia was the first position among the overall study of this study concept.
12. Internal Links, Indira Gandhi Institute of Physical Education and Sports Sciences-Vikaspuri website have a high number of internally linked pages which means the IGPE&SS website has good quality of this study.
13. External Links, Sri Krishna College of Physical Education -Miryalaguda was given more external links of this study.
14. Back Links, Tamil Nadu Physical Education and Sports University-Chennai were the first positions, which means TNPE&SU has the best popularity of this area of concept.
15. Simple Web Impact Factor, Gitanjali College of Physical Education-Sainthia was in the first position with 1751.41 SWIF.
16. Self Link Web Impact Factor, The Sri Ramakrishna Mision Vidyalaya Maruthi College of Physical Education-Coimbatore was the first position with 135.00 SLWIF.
17. External Link Web Impact Factor, Gopala Krishna College of Physical Education-Haliya was in the first position with 46.00 ELWIF.
18. Revised Web Impact Factor Sri Ramakrishna Mision Vidyalaya Maruthi College of Physical Education-Coimbatore was the first position with 1580.00 RWIF.
19. Pearson correlation coefficient (r) value is $r = -0.0048$ = this value meaning is 'Moderate Negative Correlation'. among the website of institutions in NCTE.
20. Link Topology, Websites of NCTE-recognized Physical Education institutions are not well connected.
21. Link Topology, one Physical Education institution is connected with their higher authority only that institution from Tamil Nadu of NCTE.

Conclusion of the study

Webometric studies on the 'Physical Education and Sports' sector are infrequent approaches in past to present years. So, in this study is concluded that the values range of web impact factors is not good between simple web impact factor and revised web impact factor also noted of this study the link topology relationship among Physical Education institutions of NCTE in India is not good. So recommended of the study is need a balanced and better result between RWIF and SWIF and well connectivity of link topology among the Physical Education departments in India. Further, different views of webometric studies approaches are required for Physical Education and sports field in India for better performance at the international level.

Abbreviations

St/Ut- State/Union Territory, Mgt-Management, Rgn-Region, Estd-Establishment, TN-Tamil Nadu, AS-Assam, AP-Andhra Pradesh, KA-Karnataka, TG-Telangana, KL-Kerala, BR-Bihar, OR-Orissa, TR-Tripura, WB-West Bengal, JH-Jharkhand, GJ-Gujarat, CG-Chhattisgarh, RJ-Rajasthan, MH-Maharashtra, MP-Madhya Pradesh, DL-Delhi, PB-Punjab, MN-Manipur, HR-Haryana, GT-Government, GA-Government Aided, PT-Private, SR-South Region, ER-East Region, WR-West Region, NR-North Region, .org-organization, .com-commercial, .in-India, .ac.in-academic India, .edu.in-educational India, .co.in-commercial India, .org.in-organization India, .org.in-organization India, .edu-educational, .net-network, business.in-business.India and business.com- business. Commercial.

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Annexure-1

Table 1: NCTE recognized Physical Education Institutions in India and their short name, state/ union territory, type of management, institutions located region, year of establishment and official website address.

S. No	Institutions Name & Place	Short Name	St / Ut	M g t	Rg n	Es td	Website Address
1	Tamil Nadu Physical Education and Sports University-Chennai	TNPESU	TN	GT	SR	2005	http://tnpesu.org
2	Young Men's Christian Association-Chennai	YMCA	TN	GA	SR	1920	http://www.ymca-college.ac.in
3	Sri Ramakrishna Mision Vidyalaya Maruthi College of Physical Education-Coimbatore	SRMVM CPE	TN	GA	SR	1956	http://srkvmcpe.org
4	Dr.Sivanthi Aditanar College of Physical Education-Tiruchendur	Dr.SAC PE	TN	PT	SR	1993	http://www.drscpe.org
5	Sri Sarada College of Physical Education for women-Salem	SSCPE W	TN	GA	SR	1982	https://www.srisaradaphyedu.in
6	Selvam College of Physical Education-Namakkal	SCPE	TN	PT	SR	2006	https://vptscope.in
7	Koviloor Andavar College of Physical Education and Sports Science-Koviloor	KACPE	TN	PT	SR	1995	http://koviloormadalayam.com
8	Meenatchi Physical Education College -Ariyalur	MPEC	TN	PT	SR	2000	https://mpecollege.in
9	Christian College of Physical Education-Nagercoil	CHRCPE	TN	PT	SR	2008	http://ccpe.co.in
10	St. John's College of Physical Education-Tirunelveli	SJPE	TN	PT	SR	2007	http://www.stjohnsbped.com
11	Sri Renugambal College of Physical Education-Tiruvannamalai	SRCPE	TN	PT	SR	2007	http://www.srce.org.in
12	Mother Teresa College of Physical Education-Pudukkottai	MTCPE	TN	PT	SR	2015	http://www.physical.motherteraskalvi.com
13	Dhanalakshmi Srinivasan College of Physical Education-Perambalur	DSCPE	TN	PT	SR	2015	http://dscpe.co.in
14	K.R. College of Physical Education-Dindigul	KRCPE	TN	PT	SR	2009	https://krbped.in
15	Sree Bhavani College of Physical Education-Veepur	SBCPE	TN	PT	SR	2016	http://www.sreebhavanicollege.in
16	Cheran College of Physical Education-Karur	CCPE	TN	PT	SR	2016	https://www.cherانبped.com
17	Jenneys college of Physical Education-Tiruchirapalli	JCPE	TN	PT	SR	2016	http://www.jenneysphysicaleduca

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18	good samaritan institute of physical education-Kangeyam	GSIPE	TN	PT	SR	2008	https://good-samaritan-institute-of-physical-education.business.site
19	MASS College of Physical Education-Vilupuram	MASS	TN	PT	SR	2016	http://physical.masscollege.org
20	P.S. Muthu College of Physical Education-Theni (D.P.Ed (Diploma in Physical Education))	PSMPE	TN	PT	SR	2009	http://www.psmasc.in
21	Lakshmbai National Institute of Physical Education-Guwahati	LNPE	AS	PT	ER	1957	http://lnipe.edu.in
22	Sri Sri Aniruddhadeva Sports University-Dibrugarh	SSASU	AS	GT	ER	2020	https://www.sasu.ac.in
23	Sri Lakshmi B.PEd College-Allagadda	SLBC	AP	PT	SR	2009	http://srilakshmiaped.org
24	Sri Venkateswara College-Srikakulam	SVCPE	AP	PT	SR	2003	http://svcphysicaleducation.in
25	Sri Vivekananda B.P. Ed. College-Podili	SVBC	AP	PT	SR	2015	http://www.svbpedcollege.in
26	Vikas College of Physical Education-Vijayawada	VIKCPE	AP	PT	SR	2015	http://vikascpe.in
27	Vijaya College of Physical Education-Krishna	VIJCPE	AP	PT	SR	2015	http://www.vijayacpe.in
28	Nova College of Physical Education-Jangareddigudem	NCPE	AP	PT	SR	1998	http://www.bpedjrg.nova.edu.in
29	Sri Venkateswara College of Physical Education-Kadiri	SVPE	AP	PT	SR	2014	http://www.svbpedcollege.co.in
30	Sri Krishnaveni College of Physical Education-Gannavaram	SKCPE	AP	PT	SR	1991	http://www.srikrishnavenicolleges.com/physical_education.html
31	Rayalaseema College of Physical Education-Cuddapah	RCPE	AP	PT	SR	1984	http://rcpepdtr.com
32	Sai Deepthi College of Physical Education-Guntur	SDCPE	AP	PT	SR	2014	http://sdcpeducation.com
33	Kodi Ramamurthy College of Physical Education-Bobbili Mandal	KRCPE	AP	PT	SR	1991	https://krmcpe.org
34	Pragathi College of Physical Education-Visakhapatnam	PCPE	AP	PT	SR	1998	http://pragathifenceacademy.com
35	D.R.K.Reddy College of Physical Education-East Godavari	DRCPE	AP	PT	SR	2012	http://www.drkr eddyphysicaleducation.org

36	Sri Sai Aditya College of Physical Education-Gandepalli mandal	SSACPE	AP	PT	SR	2013	https://aditya.ac.in
37	Aditya College of Physical Education-Kakinada	ACPE	AP	PT	SR	2013	https://aditya.ac.in
38	Young Men's Christian Association-Bangalore	YMCA	KA	PT	SR	1900	https://www.ymcablr.net
39	Alva's College of Physical Education-Mangalore	ACPE	KA	PT	SR	2005	http://www.alvas.org
40	Sardar Butasing BPED College-Chitradurga	SSBBC	KA	PT	SR	2009	http://www.ssbsbped.org
41	Chikodi Taluka education society's College of Physical Education-Belgaum	CTE	KA	PT	SR	2004	http://www.ctesbped.org
42	Siddaganga College of Physical Education-Tumkur	SSCPE	KA	PT	SR	2005	http://sses.org.in
43	Sri K.Venkatapatheppa College of Physical Education-Chikkaballapur	SKVCPE	KA	PT	SR	1983	http://www.skvcpe.in
44	Sri Balagangadharanatha Swamiji College of Physical Education-Bengaluru	BGSCPE	KA	PT	SR	2005	http://www.bgscpe.org
45	Sri BVN College of Physical Education-Kolar	SBVNCPE	KA	PT	SR	1985	http://www.bvn.co.in
46	Shree Prabhurajendra College of Physical Education-Gadag	SPRCPE	KA	PT	SR	1985	http://www.spresgadag.org
47	Centenary College of Physical Education-Chitradurga	CENCPE	KA	PT	SR	1991	malladihalliast.com
48	Sri Krishna College of Physical Education -Miryalaguda	SKCPE	TG	PT	SR	1993	http://www.srikrishnanlg.blogspot.in
49	Gopala Krishna College of Physical Education-Haliya	GKCPE	TG	PT	SR	2012	http://neelaigudem.blogspot.com
50	Dr. Muscu Madhusudan Reddy College of Physical Education-Choutuppal	Dr.MMR CPE	TG	PT	SR	2012	http://www.mmr.co.in
51	Siddhartha College of Physical Education-Ibrahimpattam	SIDCPE	TG	PT	SR	2014	http://www.bped.siddhartha.ac.in
52	Lakshmibai National College of Physical Education-Thiruvananthapuram	LNCPE	KL	GT	SR	1985	https://www.lncpe.gov.in
53	Christ College of Physical Education-Thrissur	CCPE	KL	PT	SR	2011	http://www.ccpeijl.in
54	Tirhut College of Physical Education-Muzaffarpur	TCPE	BR	PT	ER	1938	https://www.tcpe.org
55	Prasannamani College of Physical Education & Yoga-Cuttack	PMCPE	OR	PT	ER	1982	http://www.pmcpe.com
56	Baliapal College of Physical Education-Baliapal	BCPE	OR	PT	ER	1981	http://www.bcpe.in

57	Govt. College of Physical Education-Bhubaneswar	GCPE	OR	PT	ER	1957	http://gcpebhubaneswar.com
58	Regional College of Physical Education-North Tripura	RCPE	TR	GT	ER	1977	https://yas.tripura.gov.in
59	Post Graduate Training College for Physical Education-Banipur	PGGIPE	WB	GT	ER	1932	http://www.pggipe.in
60	State Institute of Physical Education for Women-Alipore	SIPEW	WB	GT	ER	1975	http://www.sipew.org
61	Govt. Physical Education College for Women-Hooghly	GPECW	WB	GT	ER	1984	http://www.gpecwhooghly.org
62	Prabharani Institute of Education, (Physical Education)-Chanak	PIEPE	WB	PT	ER	2006	http://www.prabharaniinstituteofeducation.org
63	Govt. College of Physical Education for Women-Dinhata	GCPEW	WB	GT	ER	1985	http://www.gcpew.ac.in
64	Gitanjali College of Physical Education-Sainthia	GITJCPE	WB	PT	ER	2018	http://www.gitanjaliped.org
65	Sunil Dhar Memorial B.P.Ed. College-Murshidabad	SDMC	WB	PT	ER	2007	http://www.sdmemorialcollege.org
66	Jagadish Chandra Basu Sikshak Sikshan Mahavidyalaya-Domjur	JCBSSM	WB	PT	ER	1961	https://www.jcbssm.org.in
67	Radha Govind College of Physical Education-Ramgarh	RGCPE	JH	PT	ER	2010	http://www.rgttc-ramgarh.org
68	Ramchandra Chandravansi College of Physical Education-Bishrampur	RCCPE	JH	PT	ER	2004	http://www.rccpe.in
69	Charutar Vidya Mandal's S. S. Patel College of Physical Education-Anand	SSPCPE	GJ	PT	WR	2002	http://www.sspcpe.edu.in
70	Shri V.J. Patel College of Physical Education-Mogri	VJPCPE	GJ	PT	WR	2007	http://www.cesociety.in
71	Swarnim Gujarat Sports University-Gandhinagar	SGPU	GJ	GT	WR	2011	https://sgsu.gujarat.gov.in
72	Shri Rawatpura Sarkar Institute of Physical Education-Raipur	SRSIPE	CG	PT	WR	2014	http://bped.srgoi.org
73	Netaji Subhash College of Physical Education-Abhanpur	NSCPE	CG	PT	WR	2006	http://www.nspecollege.in
74	Adarsh Physical Teacher Training College-Suroth	APTTC	RJ	PT	WR	2000	http://adarshcampus.com
75	Krishna College of Physical Education-Mavli	KCPE	RJ	PT	WR	2005	http://www.krishnacollege.org
76	Shri Bhawani Niketan Teacher's Training College-Jaipur	SBNTTC	RJ	PT	WR	2006	http://sbnttc.com
77	Sri Dwarka Prasad Physical Teacher Training College-Bikaner	SDPPTTC	RJ	PT	WR	2006	http://dpttc.in
78	Nagpur Sharirik Shikshan	NSSM	MH	PT	WR	197	http://nssmngp

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79	BPCA's College of Physical Education-Wadala	BPCA	MH	PT	WR	1978	http://www.bpcacpemumbai.org
80	Bharati Vidyapeeth University College of Physical Education-Pune	BVUCE	MH	PT	WR	1994	https://copepune.bharatividyapeeth.edu
81	Hanuman Vyayam Shala Krida Mandal Physical Education College-Yavatmal	HVSKMPEC	MH	PT	WR	1980	http://www.hvskmyavatmal.org
82	Yashwantrao Chavan College of Physical Education-Mangrulpir	YCCPE	MH	PT	WR	2006	http://www.shrimtspm.org
83	Maharashtriya mandals Chandrashekhar Agashe College of Physical Education-Gultekdi	CACPE	MH	PT	WR	1932	https://www.agashecollege.org
84	Mahatma Education Society Vidyadhiraja College of Physical Education & Research-Raigad	MESVCE	MH	PT	WR	1992	https://www.vcper.ac.in
85	Matsyodari Shikshan Sanstha's College of Physical Education-Jalna	MSSCPE	MH	PT	WR	1994	http://mssbpedjalna.in
86	Sadguru Education Society College of Physical of Education-Jalgaon	SESCPE	MH	PT	WR	1989	http://bpedjal.org
87	Saket College of Physical Education-Gondia	SCPE	MH	PT	WR	1994	https://scopegondia.com
88	Saraswati Shikshan Prasar Mandals College of Physical Education-Kautha	SSPMCE	MH	PT	WR	1994	http://sspmkautaned.in
89	Shrikrishna Sharirik Shikshan Mahavidyalaya-Wardha	SSSM	MH	PT	WR	1990	http://shreekrushnassmv.com
90	Shri Shivaji College of Physical Education-Amaravatis	SSEAAA CPE	MH	PT	WR	1960	http://shivajibpedamt.org
91	Shri Shivaji Prasarak Mandal's College of Education-Pimpri	SSPMCE	MH	PT	WR	1966	http://www.coebarshe.org
92	Shri Ramnath Singh Institute of Physical Education-Gwalior	SRSIPE	MP	PT	WR	2004	http://rnscolleges.com
93	Mandsaur Institute of Physical Education-Mandsaur	MIPE	MP	PT	WR	2008	https://mipemandsaur.org
94	Lakshmibai National Institute of Physical Education-Gwalior	LNPE	MP	GT	WR	1957	http://www.lnpe.edu.in
95	Indira Gandhi Institute of Physical Education and Sports Sciences-Vikaspuri	IGIPSS	DL	GT	NR	1987	http://www.igipss.du.ac.in
96	National College of Physical Education-Chupki	NCPE	PB	GT	NR	2002	https://ncpechupki.com
97	Mata Gurudev Kaur Memorial Shahi Sports College of Physical Education-Jhakroudi	MGKMSCPE	PB	PT	NR	1998	http://www.shahisportscollege.com

98	Colonel College of Physical Education-Sangrur	CCPE	PB	PT	NR	2003	http://www.colonelphyedu.com
99	Akal College of Physical Education-Sangrur	ACPE	PB	PT	NR	2006	https://www.acpe.ac.in
100	The Maharaja Bhupinder Singh Punjab Sports University-Patiala	MBSPSU	PB	GT	NR	2019	http://mbpsu.ac.in