

Ranking of Websites of State Universities in Tamil Nadu using WISER and PRIMOEX: An Analytical Study

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ABSTRACT

This Study examines and explores through a web metric ranking analysis of the websites of 22 state universities in Tamil Nadu. It discussed the domain systems of the websites; WISER Web ranking for the year 2016 and 2017. Similarly, the researchers manipulated a new ranking tools for ranking the websites of State universities of Tamil Nadu, According to WISER ranking, Anna University is ranked first with 2469.4 WISER value followed by Tamil Nadu Agricultural University which is ranked second with 4031.4 WISER value. University of Madras is ranked third with 4333.8 WISER values in the year 2017. But when we used the PRIMOEX ranking, Anna University is ranked first with 3653.3 PRIMOEX value followed by Tamil Nadu Agricultural University which is ranked second with 4090.6 PRIMOEX value. Madurai Kamaraj University is ranked third with 4136.1 PRIMOEX values. Alagappa University is ranked fourth with 4956.1 PRIMOEX value and Alagappa University with 6001.9 PRIMOEX value is ranked fifth. It found that PRIMOEX good tool to measure the ranking of websites of state universities of Tamil Nadu.

1. Introduction

Metric studies when applied on the information provide more insights about the information. The metric studies help to identify the knowledge gap in a particular field. It provides new ideas about the information and promotes new researches. Metric studies are the boon to the library and information science which gives information about information and the metric study field in library and information science will definitely evolve more in the future. The websites of institutions have become one of the main sources of information in academic and research activities. In terms of research, educational institutions' websites can announce the existence and promote the achievements of individuals, research groups, institutions and departments. They can also disseminate findings, either by hosting online articles or publishing summaries, data sets or tools. The pages themselves

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can be created centrally, by administrators or webmasters, or logically by individuals for themselves or their research team projects. Potential benefits of an effective web presence include greater research impact, attracting students, media interest and commercial contacts.

2. Webometrics & Literature Review

2.1 Webometrics

The Webometrics defined as using the techniques of bibliometric in order to study the relationship of different sites on the World Wide Web. Such techniques may also be used to map out areas of the Web that appear to be most useful or influential, based on the number of times they are hyperlinked to other Web sites. The methods of webometrics are;

According to Björneborn and Ingwersen (2004), the Webometrics study covers the construction side and usage side of the web and it focus on the four main areas such as:

- Web page content analysis, Web link structure analysis (e.g. Hyperlink, Self link, External link and Inlink);
- Web usage analysis (e.g. exploiting log files for users searching and browsing behaviour); and
- Web technology analysis (including search engine performance).

Therefore, Webometrics is the quantitative study of web-related phenomena, originated in the realisation that methods originally designed for bibliometric analysis.

2.2 Literature Review

Huntington, Nicholas, and Jamali (2008) explained that Metrics derived from user visits or sessions provide a means of evaluating Websites and an important insight into online information seeking behaviour. The authors argued that page time distribution is composed of a number of quite separate view time distributions because of the marked differences in view times between pages. The web application of product, usage and development of document-centric, interactive usability, Graphic User Interfaces had been explained by Kastania and Zimeras (2010). They classified the websites by three methods such as the web typology or digital business models, the 'stages of development' models and the use of scoring system. Each had been explained with its stages and sub methods. Moreover, the usability of web applications by response times, interaction efficiency, colours, text layout page structure, navigation structure, multiculturalism etc had been brought out. The exploratory methods, analytic methods and experimental method had been specified to evaluate the usability of web application.

Bowler, Hong, and He (2011) analyzed the Six Health Websites' Visibility in order to know about website which had provided reliable health information. Google webmaster tool was used to gather inlinks and were classified by the type of creator. The study found that the weak network of inlinks led to lost opportunity to the health care people, to young people. Also, it generated

that the Google webmaster inlink tool did not guaranteed for 100 percent coverage and some inlinks were not captured by the tool. Iroaganachi et al. (2016) assessed the quantity of research publication within the period, top ten published universities, fields, journals and their impact factors, cited authors, and top ten published countries. This was with a view to determining author relevance, institutional priority, the extent of sustainable development in the fields and host countries.

Govindarajan and Dhanavandan (2016) Found that the analysis gives interesting insights about the associations' websites. All India Ophthalmic Society (AIOS) is the most popular website and is in the first place among all the associations' website. It holds the global rank of 965269. Chandigarh Ophthalmologist website holds the highest bounce rate of 82.0. Thelwall et al. (2016) analyses a range of altmetric and webometric indicators in terms of suitability for funding scheme evaluations, compares them to traditional indicators and reports some statistics derived from a pilot study with Welcome Trust-associated publications. It finds that the dome alternative indicators have advantages to usefully complement scientometric data by reflecting a different type of impact or through being available before citation data. Varadharajalu and Dhanavandan (2017) discusses why External Web Impact Factor (EWIF) is more meaningful than simple WIF. The study also attempts the websites of Telangana State Universities by considering website ranking systems and compares the WIF and EWIF. It found that the Professor Jayashankar Telangana State Agricultural University ranked 1 (0.0040%) in Selflink Web Impact Factor of State University Websites in Telangana. Palamuru University, and Satavahana University shares 2nd (0.0031) rank in Self Link Web Impact Factor. The Jawaharlal Nehru Technological University ranked as first (0.0007) in External Link Web Impact Factor.

3. Methodology

The main aim of this study is to examine the 22 websites of State Universities in Tamil Nadu. The relevant data collected from Alexa, Webometrics, SEO Tools and Google page ranking. It identifies the web domains, WISER and PRIMOEX ranking for the year 2016 and 2017 web ranking. The SPSS were used for the analysis.

3.1 Study Area

This study discusses about the ranking websites of State Universities (Government only) in Tamil Nadu which using the WISER and PRIMOEX. There are various tools are available to measure the websites. There are more number of higher educational intuitions are available in India. Particularly in Tamil Nadu has huge number of higher educational institutions like Central Universities, State Government Universities, Deemed Universities, Technical institutions and others. In these circumstances, the universities are needed to more visibility and attraction by the way of using websites. This study aimed at to examine the 22 websites of State Universities in Tamil Nadu. Therefore, it is necessary to rank the websites of educational institutions in the context of competition among them due to privatization of education. The approach taken will be called ranking of websites which covers other quantitative measures like WISER and PRIMOEX.

3.2 Objectives of the Study

The major objectives of the study are:

1. To explore the existence of website of State Universities in Tamil Nadu.
2. To identify the domain name preferred by the State Universities.
3. To identify the types of domain preferred by the State Universities in Tamil Nadu.
4. To know the visibility and connectivity of website using WISER Rank
5. To provide a rank using PRIMOEX

3.3 Scope and Limitation

There are 22 websites of State Universities in Tamil Nadu are alone taken up for the study. The advanced search facility of Alexa Web ranking tool, Webometrics web ranking and Small SEO Tools are used for data collection. The relevant data were collected during the period in 2017. Since the data were dynamic in nature. The Central Universities, Private Universities & Deemed Universities in Tamil Nadu are excluded.

4. Results and Discussion

4.1 State Universities in Tamil Nadu

The University Grants Commission and the State Councils should develop coordinate methods to keep a watch on standards. It is in pursuance of this significant recommendation of the National Education Policy that the Government of Tamil Nadu established a State Council for Higher Education by the Tamil Nadu State Council for Higher Education (TANSCHÉ) Act. This statutory body started functioning from 9th November 1992. The total number of Universities functioning in the State was 59. Comprising the State Universities 22 and Private Deemed Universities 29. The following Table 1 gives the detailed list of 22 State Universities of Tamil Nadu and their URL address.

Table 1. State Universities in Tamil Nadu

S. No.	Name of the University	URL Address	Year of Estd.
1.	Alagappa University	http://www.alagappauniversity.ac.in	1985
2.	Anna University	http://www.annauniv.edu	1978
3.	Annamalai University	http://www.annamalaiuniversity.ac.in	1929
4.	Bharathiar University	http://www.b-u.ac.in	1982
5.	Bharathidasan University	http://www.bdu.ac.in	1982
6.	Madurai Kamraj University	http://www.mkuniversity.org	1965
7.	Manonmaniam Sundarnar University	http://www.tnuniv.ac.in/msu	1990
8.	Mother Teresa Women's University	http://www.motherteresawomenuniv.ac.in	1984
9.	Periyar University	http://periyaruniversity.ac.in	1997
10.	Tamil Nadu Agricultural University	http://www.tnau.ac.in	1971

S. No.	Name of the University	URL Address	Year of Estd.
11.	Tamil Nadu Dr. Ambedkar Law University	http://www.tndalu.ac.in/	1997
12.	Tamil Nadu Dr. M.G.R. Medical University	https://www.tnmgrmu.ac.in/	1987
13.	Tamil Nadu Fisheries University	www.tnfyu.ac.in/	2012
14.	Tamil Nadu Music and Fine Arts University	www.tnmfau.in/	2013
15.	Tamil Nadu National Law School	http://www.tnnls.in	2012
16.	Tamil Nadu Open University	http://www.tnou.ac.in	2002
17.	Tamil Nadu Physical Education and Sports University	http://www.tnpesu.org	2005
18.	Tamil Nadu Teacher Education University	http://www.tnteu.in/	2008
19.	Tamil Nadu Veterinary & Animal Sciences University	http://www.tanuvass.ac.in	1989
20.	Tamil University	http://www.tamiluniversity.ac.in	1981
21.	Thiruvalluvar University	http://www.tvuni.in	2002
22.	University of Madras	http://www.unom.ac.in	1857

4.2 URL Domain of the Universities in Tamil Nadu

The URL domain of the universities were analysed irrespective of website domain. The web domain were identified in under seven category such as ‘.ac.in’, ‘.edu’, ‘.edu.in’, ‘.in’, ‘.info’, ‘.nic.in’ and ‘.org’. The same has been shown in Table 2.

Table 2. URL Domain of the State Universities in Tamil Nadu

S. No	Domain	No. of Universities	Percentage
1.	.ac.in	15	68.18
2.	.edu	1	4.55
3.	.edu.in	0	0.00
4.	.in	3	13.64
5.	.info	0	0.00
6.	.nic.in	1	4.55
7.	.org	2	9.09
	Total	22	100

Table 2 states the URL domain wise distribution of Websites of State Universities in Tamil Nadu. It is understood from the table, that most of the State Universities are using ‘.ac.in’ 15 (68.18%) higher than the other domains. The second highest domain ‘.edu.in’ used by 3 (13.64%) the universities and 2 (9.09%) Universities are using the domain ‘.org’ in their Website.

4.3 Discipline wise State Universities in Tamil Nadu

The state universities were analysed irrespective of subject discipline of universities. The discipline were classified such as ‘.Arts Science’, ‘.Engineering & Technology’, ‘Medical’, and Others and it has been shown in Table 3.

Table 3, Discipline wise State Universities in Tamil Nadu

Sl. No.	Discipline	No. of Universities	Percentage
1.	Arts & Science	12	54.55
2.	Engg. & Technology	1	4.55
3.	Medical	1	4.55
4.	Others	8	36.36
	Total	22	100

The Table 3 shows the subject Discipline wise State Universities in Tamil Nadu. Among the 22, 12 (54.55%) universities comes under ‘Arts & Science’ and 8 (36.36%) universities are in ‘Others’ category which consists of Sports, Education, Agriculture, Music & others. It is pointed out from the table, equally one university from Medical and Engineering & Technology discipline.

4.4 WISER Ranking Analysis of Websites of State Universities in Tamil Nadu for 2016

According to WISER Ranking method, we have taken the four indicators namely Presence (P), Impact (I), Openness (O) and Excellence (E) are collected and different weight age have been given to each indicator to calculate the rank. In this section the WISER Ranking analysis of web sites of universities in Tamil Nadu is analyzed.

$\text{Webometric Rank (WR)} = 0.1 * \text{Presence} + 0.5 * \text{Impact} + 0.1 * \text{Openness} + 0.3 * \text{Excellence}$

The WISER ranking analysis of Websites of State Universities in Tamil Nadu for the year 2016 were analyzed in the Table 4.

Table 4, WISER Ranking Analysis of Websites of State Universities in Tamil Nadu -2016

S. No.	Name of the University	Presence	Impact	Openness	Excellence	WISER Rank Value	Rank
1.	Anna University	6582	1825	1001	725	1888.3	1
2.	Annamalai University	5558	4196	1817	1034	3145.7	2
3.	University of Madras	11365	3751	1578	1539	3631.5	3
4.	Tamil Nadu Agricultural University	4484	4325	2656	2744	3699.7	4
5.	Bharathidasan University	10413	4781	1573	1514	4043.3	5
6.	Alagappa University	4083	5961	2180	1892	4174.4	6
7.	Bharathiar University	15949	4548	1184	1352	4392.9	7
8.	Madurai Kamaraj University	18108	5695	4121	1597	5549.5	8
9.	Periyar University	15098	6950	2268	2121	5847.9	9
10.	Tamil Nadu Open University	8427	6317	4121	5824	6160.5	10
11.	Manonmaniam Sundaranar University	18286	7440	2432	2602	6572.4	11
12.	Tamil Nadu Dr M G R Medical University	5438	10457	4121	5824	7931.6	12
13.	Tamil Nadu Teachers Education University	15918	8804	4121	5824	8153.1	13

S. No.	Name of the University	Presence	Impact	Openness	Excellence	WISER Value	Rank
14.	Tamil Nadu Veterinary and Animal Sciences University	15551	10754	4121	3887	8510.3	14
15.	Thiruvalluvar University	17596	9937	4121	4952	8625.8	15
16.	Tamil University	14581	10117	4121	5824	8675.9	16
17.	Mother Teresa Women's University	16708	11736	4121	3967	9141.0	17
18.	Tamil Nadu Dr Ambedkar Law University	19455	11671	4121	5824	9940.3	18
19.	Tamil Nadu Physical Education and Sports University	21166	13244	4121	5824	10897.9	19
20.	Tamil Nadu National Law School	20753	17657	4121	5824	13063.1	20
21.	Tamil Nadu Fisheries University	15416	18765	4121	5824	13083.4	21
22.	Tamil Nadu Music and Fine Arts University	N/A	N/A	N/A	N/A	-	-

Table 4 depicts the WISER ranking of websites of state universities in Tamil Nadu in the year 2016. According to WISER ranking, Anna University is ranked first with 1888.3 WISER value followed by Annamalai University which is ranked second with 3145.7 WISER value. University of Madras is ranked third with 3631.5 WISER values. Tamil Nadu Agricultural University is ranked fourth with 3699.7 WISER values and Bharathidasan University with 4043.3 WISER value is ranked fifth. It is also observed that Tamil Nadu National Law School and Tamil Nadu Fisheries University occupy the last two ranks with 13063.1 and 13083.4 WISER value respectively. No data for the Tamil Nadu Music and Fine Arts University in the respective sources.

4.5 WISER Value Analysis of Websites of State Universities in Tamil Nadu for 2016

The classification of WISER Ranking Analysis of Websites of Universities in Tamil Nadu the overall for the year 2016 were analysed and the same has been shown in Table 5. The WISER Ranking Value were categorized under six different values are such as 0001-5000, 5001-10000, 10001-15000, and 15001 and above.

Table 5. WISER Value Analysis of Websites of State Universities in Tamil Nadu for 2016

S. No.	WISER Value	Universities	Percentage
1.	0001-5000	7	31.82
2.	5001-10000	11	50.00
3.	10001-15000	3	13.64
4.	15001 and above	0	0.00
5.	No Data	1	4.55
	Total	22	100

Table 5 describes the classification of WISER Ranking Analysis of Websites of State Universities in Tamil Nadu in the year 2016. Among the 22 universities, 7 (31.82%) universities WISER value is below 5000 and 11 (50.00%) Universities have WISER Value from 5001 to 10000 is higher

than other WISER values of ranking. Followed by 3 (13.64%) universities WISER Value ranking is 10001 to 15000. For 1 (4.55%) University have no data from the sources among the website in the state universities in Tamil Nadu for year of 2016.

4.6 WISER Ranking Analysis of Websites of State Universities in Tamil Nadu for 2017

The WISER ranking analysis of Websites of State Universities in Tamil Nadu for the year 2017 were analyzed in the Table 6.

Table 6. WISER Ranking Analysis of Websites of State Universities in Tamil Nadu - 2017

S. No.	Name of the University	Presence	Impact	Openness	Excellence	WISER Value	Rank
1.	Anna University	6107	3067	1092	720	2469.4	1
2.	Tamil Nadu Agricultural University	4467	5003	2651	2727	4031.4	2
3.	University of Madras	12383	4955	1590	1530	4333.8	3
4.	Annamalai University	6018	6395	2638	1028	4371.5	4
5.	Madurai Kamaraj University	2562	7857	2977	1588	4958.8	5
6.	Bharathidasan University	11354	7130	1598	1506	5312.0	6
7.	Bharathiar University	15620	6973	1169	1345	5568.9	7
8.	Alagappa University	6959	8650	2177	1879	5802.3	8
9.	Periyar University	15404	9305	2342	2106	7058.9	9
10.	Manonmaniam Sundaranar University	16531	10546	2491	2584	7950.4	10
11.	Tamil Nadu Veterinary and Animal Sciences University	15461	10883	4221	3860	8567.7	11
12.	Tamil Nadu Open University	14230	10055	8100	5778	8993.9	12
13.	Tamil Nadu Dr M G R Medical University	7397	11578	7357	5778	8997.8	13
14.	Mother Teresa Women's University	17594	12492	8635	3939	10050.6	14
15.	Thiruvalluvar University	18096	13058	6316	4916	10445.0	15
16.	Tamil Nadu Teachers Education University	16531	12567	8635	5778	10533.5	16
17.	Tamil Nadu Dr Ambedkar Law University	18096	12802	8635	5778	10807.5	17
18.	Tamil University	14983	13802	8635	5778	10996.2	18
19.	Tamil Nadu Physical Education and Sports University	20912	14369	8635	5778	11872.6	19
20.	Tamil Nadu Fisheries University	15701	17986	8635	5778	13160.0	20
21.	Tamil Nadu National Law School	19388	17326	8635	5778	13198.7	21
22.	Tamil Nadu Music and Fine Arts University	N/A	N/A	N/A	N/A		

Table 6 shows the WISER ranking of websites of state universities in Tamil Nadu in the year 2017. According to WISER ranking, Anna University is ranked first with 2469.4 WISER value followed by Tamil Nadu Agricultural University which is ranked second with 4031.4 WISER value. University of Madras is ranked third with 4333.8 WISER values. Annamalai University is ranked fourth with 4371.5 WISER value and Madurai Kamaraj University with 4958.8 WISER value is

ranked fifth. It is also observed that Tamil Nadu Fisheries University and Tamil Nadu National Law School occupy the last two ranks with 13160.0 and 13198.7 WISER value respectively. No data for the Tamil Nadu Music and Fine Arts University in the respective sources.

4.7 WISER Value Analysis of Websites of State Universities in Tamil Nadu – 2017

The classification of WISER Ranking Analysis of Websites of State Universities in Tamil Nadu the overall for the year 2017 were analyzed and the same has been shown in Table 7. The WISER Ranking Value were categorized under six different values are such as 0001-5000, 5001-10000, 10001-15000, and 15001 and above.

Table 7. WISER Value Analysis of Websites of State Universities in Tamil Nadu for 2017

S. No.	WISER Value	No. of Universities	Percentage
1.	0001-5000	5	22.72
2.	5001-10000	8	36.36
3.	10001-15000	8	36.36
4.	15001 and above	0	0
5.	No Data	1	4.54
	Total	22	100

Table 7 describes the classification of WISER Ranking Analysis of Websites of State Universities in Tamil Nadu in the year 2017. Among the 22 universities, 8 (36.36%) universities are equally in the WISER value is below 5000 and 5001 to 10000 and 10001-15000 is higher than other WISER values of ranking. And 5 (22.72%) universities are in below 5000 WISER value. Followed by 3 (13.64%) universities WISER Value ranking is 10001 to 15000. For 1 (4.55%) University have no data from the sources among the website in the state universities in Tamil Nadu for year of 2017.

4.8 PRIMOEX Ranking Analysis of Websites of State Universities in Tamil Nadu for 2016

According to PRIMOEX Ranking method, we have taken the four indicators namely Presence (P), Impact (I), Openness (O) and Excellence (E) are collected and different weightage have been given to each indicator to calculate the rank. In this section the PRIMOEX Ranking analysis of websites of universities in Tamil Nadu is and the data has been presented

$$\text{Webometric Rank (WR)} = 0.4 * \text{Presence} + 0.3 * \text{Impact} + 0.2 * \text{Openness} + 0.1 * \text{Excellence}$$

The PRIMOEX ranking analysis of Websites of State Universities in Tamil Nadu for the year 2016 were analyzed in the Table 8.

Table 8. PRIMOEX Ranking Analysis of Websites of State Universities in Tamil Nadu -2016

S. No.	Name of the University	Presence	Impact	Openness	Excellence	Calculated Rank	Rank
1.	Anna University	6582	1825	1001	725	3453.0	1
2.	Tamil Nadu Agricultural University	4484	4325	2656	2744	3896.7	2
3.	Annamalai University	5558	4196	1817	1034	3948.8	3
4.	Alagappa University	4083	5961	2180	1892	4046.7	4
5.	Bharathidasan University	10413	4781	1573	1514	6065.5	5
6.	University of Madras	11365	3751	1578	1539	6140.8	6
7.	Tamil Nadu Open University	8427	6317	4121	5824	6672.5	7
8.	Tamil Nadu Dr M G R Medical University	5438	10457	4121	5824	6718.9	8
9.	Bharathiar University	15949	4548	1184	1352	8116.0	9
10.	Periyar University	15098	6950	2268	2121	8789.9	10
11.	Madurai Kamaraj University	18108	5695	4121	1597	9935.6	11
12.	Tamil University	14581	10117	4121	5824	10274.1	12
13.	Manonmaniam Sundaranar University	18286	7440	2432	2602	10293.0	13
14.	Tamil Nadu Teachers Education University	15918	8804	4121	5824	10415.0	14
15.	Tamil Nadu Veterinary and Animal Sciences University	15551	10754	4121	3887	10659.5	15
16.	Thiruvalluvar University	17596	9937	4121	4952	11338.9	16
17.	Mother Teresa Women's University	16708	11736	4121	3967	11424.9	17
18.	Tamil Nadu Dr Ambedkar Law University	19455	11671	4121	5824	12689.9	18
19.	Tamil Nadu Fisheries University	15416	18765	4121	5824	13202.5	19
20.	Tamil Nadu Physical Education and Sports University	21166	13244	4121	5824	13846.2	20
21.	Tamil Nadu National Law School	20753	17657	4121	5824	15004.9	21
22.	Tamil Nadu Music and Fine Arts University	-	-	-	-	-	-

Table 8 indicates the PRIMOEX ranking of websites of State Universities in Tamil Nadu in the year 2016. According to PRIMOEX ranking, Anna University is ranked first with 3453.0 PRIMOEX value followed by Tamil Nadu Agricultural University which is ranked second with 3896.7 PRIMOEX value. Annamalai University is ranked third with 3948.8 PRIMOEX values. Alagappa University is ranked fourth with 4046.7 PRIMOEX value and University of Madras with 6140.8 PRIMOEX value is ranked fifth. It is also observed that Tamil Nadu Physical Education and Sports University and Tamil Nadu National Law School occupy the last two ranks with 13846.2 and 15004.9 PRIMOEX value respectively.

4.9 PRIMOEX Value Analysis of Websites of State Universities in Tamil Nadu for the year 2016

The classification of Inlinks PRIMOEX Ranking Analysis of Websites of Universities in Tamil Nadu the overall for the year 2016 were analyzed and the same has been shown in Table 9. The PRIMOEX Ranking Value were categorized under six different values are such as 0001-5000, 5001-10000, 10001-15000, and 15001 and above.

Table 9. PRIMOEX Value Analysis of Websites of State Universities in Tamil Nadu for 2016

S. No.	Calculated Rank	Tamil Nadu	Percentage
1.	0001-5000	5	22.73
2.	5001-10000	7	31.82
3.	10001-15000	9	40.90
4.	15001 and above	1	4.55
5.	No Data	0	0
	Total	22	100

Table 9 describes the classification of PRIMOEX Ranking Analysis of Websites of State Universities in Tamil Nadu in the year 2016. Among the 22 universities, 5 (22.73%) universities PRIMOEX value is below 5000 and 7 (31.82%) Universities have PRIMOEX Value from 10000 to 15000 is higher than other PRIMOEX values of ranking. Followed by 9 (40.90%) universities PRIMOEX Value ranking is between 10001to 15000 and 1 (4.55%) university is in above 15000.

4.10 PRIMOEX Ranking Analysis of Websites of State Universities in Tamil Nadu for 2017

The PRIMOEX ranking analysis of Websites of State Universities in Tamil Nadu for the year 2017 were analyzed in the Table 10.

Table 10. PRIMOEX Ranking Analysis of Websites of State Universities in Tamil Nadu – 2017

S. No.	Name of the University	Presence	Impact	Openness	Excellence	Calculated Rank	Rank
1.	Anna University	6107	3067	1092	720	3653.3	1
2.	Tamil Nadu Agricultural University	4467	5003	2651	2727	4090.6	2
3.	Madurai Kamaraj University	2562	7857	2977	1588	4136.1	3
4.	Annamalai University	6018	6395	2638	1028	4956.1	4
5.	Alagappa University	6959	8650	2177	1879	6001.9	5
6.	University of Madras	12383	4955	1590	1530	6910.7	6
7.	Bharathidasan University	11354	7130	1598	1506	7150.8	7
8.	Tamil Nadu Dr M G R Medical University	7397	11578	7357	5778	8481.4	8
9.	Bharathiar University	15620	6973	1169	1345	8708.2	9
10.	Periyar University	15404	9305	2342	2106	9632.1	10
11.	Manonmaniam Sundaranar University	16531	10546	2491	2584	10532.8	11
12.	Tamil Nadu Veterinary and Animal Sciences University	15461	10883	4221	3860	10679.5	12
13.	Tamil Nadu Open University	14230	10055	8100	5778	10906.3	13
14.	Tamil University	14983	13802	8635	5778	12438.6	14
15.	Tamil Nadu Teachers Education University	16531	12567	8635	5778	12687.3	15
16.	Mother Teresa Women's University	17594	12492	8635	3939	12906.1	16
17.	Thiruvalluvar University	18096	13058	6316	4916	12910.6	17
18.	Tamil Nadu Dr Ambedkar Law University	18096	12802	8635	5778	13383.8	18
19.	Tamil Nadu Fisheries University	15701	17986	8635	5778	13981.0	19
20.	Tamil Nadu Physical Education and Sports University	20912	14369	8635	5778	14980.3	20
21.	Tamil Nadu National Law School	19388	17326	8635	5778	15257.8	21
22.	Tamil Nadu Music and Fine Arts University					0.0	

Table 10 describes the PRIMOEX ranking of websites of state universities in Tamil Nadu in the year 2017. According to PRIMOEX ranking, Anna University is ranked first with 3653.3 PRIMOEX value followed by Tamil Nadu Agricultural University which is ranked second with 4090.6 PRIMOEX value. Madurai Kamaraj University is ranked third with 4136.1 PRIMOEX values. Alagappa University is ranked fourth with 4956.1 PRIMOEX value and Alagappa University with 6001.9 PRIMOEX value is ranked fifth. It is also observed that Tamil Nadu Physical Education and Sports University and Tamil Nadu National Law School occupy the last two ranks with 14980.3 and 15257.8 PRIMOEX value respectively. No data for the Tamil Nadu Music and Fine Arts University in the respective sources.

4.11 PRIMOEX Value Analysis of Websites of State Universities in Tamil Nadu for 2017

The classification of Inlinks PRIMOEX Ranking Analysis of Websites of Universities in in Tamil Nadu the overall for the year 2017 were analyzed and the same has been shown in Table 12. The PRIMOEX Ranking Value were categorized under six different values are such as 0001-5000, 5001-10000, 10001-15000, and 15001and above.

Table 11. PRIMOEX Value Analysis of Websites of State Universities in Tamil Nadu for 2017

S. No.	Calculated Rank	Tamil Nadu	Percentage
1.	0001-5000	4	18.18
2.	5001-10000	6	27.27
3.	10001-15000	10	45.45
4.	15001and above	1	4.55
5.	No Data	1	4.55
	Total	22 (23.16)	

Table 11 describes the classification of PRIMOEX value Analysis of Websites of State Universities in Tamil Nadu in the year 2017. Among the 22 universities, 4 (18.18%) universities PRIMOEX value is below 5000 and 6 (27.27%) Universities have PRIMOEX Value between 5000 and 10000 is higher than other PRIMOEX values of ranking. The 10 (45.45%) Universities are has PRIMOEX Value between 10001 and 15000 is higher than other PRIMOEX values of ranking. Followed by 1 (4.55%) university PRIMOEX Value ranking is 15001 and above. And only one University has no data from the sources among the website in the state universities in Tamil Nadu for year of 2017.

4.12 WISER Vs PRIMOEX Ranking of Websites or 2016 and 2017: Overall Rank

The WISER Vs PRIMOEX ranking of Websites of the State Universities in Tamil Nadu for year 2016 & 2017 overall rank were analyzed and the same has been shown in Table 12.

Table 12. WISER Vs PRIMOEX Overall Ranking for 2016 and 2017

S. No.	Name of the University	WISER		PRIMOEX		Overall Rank
		Rank 2016	Rank 2017	Rank 2016	Rank 2017	
1.	Anna University	1	1	1	1	1
2.	Tamil Nadu Agricultural University	4	2	2	2	2
3.	University of Madras	3	3	6	6	4
4.	Annamalai University	2	4	3	4	3
5.	Madurai Kamaraj University	8	5	11	3	8
6.	Bharathidasan University	5	6	5	7	5
7.	Bharathiar University	7	7	9	9	9
8.	Alagappa University	6	8	4	5	7
9.	Periyar University	9	9	10	10	10
10.	Manonmaniam Sundaranar University	11	10	13	11	13
11.	Tamil Nadu Veterinary and Animal Sciences University	14	11	15	12	14
12.	Tamil Nadu Open University	10	12	7	13	12
13.	Tamil Nadu Dr M G R Medical University	12	13	8	8	11
14.	Mother Teresa Women's University	17	14	17	16	17
15.	Thiruvalluvar University	15	15	16	17	16
16.	Tamil Nadu Teachers Education University	13	16	14	15	15
17.	Tamil Nadu Dr Ambedkar Law University	18	17	18	18	18
18.	Tamil University	16	18	12	14	15
19.	Tamil Nadu Physical Education and Sports University	19	19	20	20	19
20.	Tamil Nadu Fisheries University	21	20	19	19	20
21.	Tamil Nadu National Law School	20	21	21	21	21
22.	Tamil Nadu Music and Fine Arts University	0	0	0	0	0

Table 12 describes the WISER Vs PRIMOEX ranking of Websites of the State Universities in Tamil Nadu for year 2016 & 2017 overall rank. Among the 22 universities, Anna University retains the first rank in WISER Vs PRIMOEX and overall web ranking for the year 2016 and 2017. The Tamil Nadu Agricultural University and Annamalai University are sharing the second overall rank. Tamil Nadu National Law School had the last rank in WISER Vs PRIMOEX and overall web ranking for the year 2016 and 2017.

4.13 Comparison WISER Vs PRIMOEX Values of Websites of the State Universities in Tamil Nadu for 2017

The WISER Vs PRIMOEX values of Websites of the State Universities in Tamil Nadu for year 2017 were analyzed and the same has been shown in Table 13.

Table 13. Comparison WISER Vs PRIMOEX Values of Websites of the State Universities in Tamil Nadu for 2017

S. No.	Name of the University	WISER	PRIMOEX
1.	Anna University	2469.4	3653.3
2.	Tamil Nadu Agricultural University	4031.4	4090.6
3.	Madurai Kamaraj University	4958.8	4136.1
4.	Annamalai University	4371.5	4956.1
5.	Alagappa University	5802.3	6001.9
6.	University of Madras	4333.8	6910.7
7.	Bharathidasan University	5312	7150.8
8.	Tamil Nadu Dr M G R Medical University	8997.8	8481.4
9.	Bharathiar University	5568.9	8708.2
10.	Periyar University	7058.9	9632.1
11.	Manonmaniam Sundaranar University	7950.4	10532.8
12.	Tamil Nadu Veterinary and Animal Sciences University	8567.7	10679.5
13.	Tamil Nadu Open University	8993.9	10906.3
14.	Tamil University	10996.2	12438.6
15.	Tamil Nadu Teachers Education University	10533.5	12687.3
16.	Mother Teresa Women's University	10050.6	12906.1
17.	Thiruvalluvar University	10445	12910.6
18.	Tamil Nadu Dr Ambedkar Law University	10807.5	13383.8
19.	Tamil Nadu Fisheries University	13160	13981
20.	Tamil Nadu Physical Education and Sports University	11872.6	14980.3
21.	Tamil Nadu National Law School	13198.7	15257.8
22.	Tamil Nadu Music and Fine Arts University	0	0

Table 13 describes the Comparison WISER Vs PRIMOEX and web ranking them with the PRIMOEX Values of Websites of the State Universities in Tamil Nadu for the 2017. Comparing with the WISER value with PRIMOEX value the PRIMOEX value is higher than WISER value. Among the 22 universities, all the universities are having more value PRIMOES when comparing the WISER value. When we need a great visibility of the university websites definitely, we must use to use for measuring the PRIMOEX value of ranking. SO, the above shows the value and excellence of the websites of all state universities in Tamil Nadu.

5. Conclusion

The sum up of the ranking of the analysis of the websites of State Universities in Tamil Nadu, while using the WISER and PRIMOEX method it will create the more excellence of the visibility and performance. This study facilitates to know the various ranking standards of websites. The

various techniques have been used to rank the websites such as Web Link Structure Analysis, Web Impact Factor, Web ranking, Google Page Rank and Alexa information on Websites for Ranking, WISER Ranking and PRIMOEX Ranking that facilitate the ranking of websites of the State Universities in the Tamil Nadu. As we the library professionals, must create the knowledge and awareness of the PRIMOEX method of the web ranking analysis.

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