

Documentation of agricultural university websites in India: a study

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Received: 29.6.2017/Accepted: 10.8.2017

ABSTRACT

An attempt was made to document the agricultural university websites in India with the help of available secondary data. The information was taken from various online sources like Wikipedia, Indian Council of Agricultural Research (ICAR) website, University Grants Commission (UGC) website, books and journals etc. Agricultural universities were documented considering category of the universities status and Alexa traffic rank, domain name extensions, ranking web of universities in Asia and National Institutional Ranking framework.

Keywords: Documentation; agricultural universities; ranking

INTRODUCTION

A website is a collection of related web pages including multimedia content typically identified with a common domain name and published on at least one web server (<https://en.wikipedia.org/wiki/Website>). Websites have many functions and can be used in various fashions; a website can be a personal, commercial for a company, a government or a non-profit organization website. Websites can be the work of an individual, a business or other organization and are typically dedicated to a particular topic or purpose ranging from entertainment and social networking to provide news and education.

A website represents a multitude of web files dedicated to a certain type of activities (a specific area) and it also contains an introductory file called Home Page. They help in accessing universe of knowledge across the globe irrespective of their geographical location and anybody can publish anything in worldwide web (www) from his desktop.

Related study

So far there was no study to document agricultural university websites. In this study attempt

was made to document the agricultural university websites.

The websites were categorized according to functions as personal homepage representing as an individual, institutional/organizational, subject defined, pointer document/index page to make number of hyperlinks available and resources which make data available eg in the form of text, sound, pictures or film.

METHODOLOGY

Agricultural university websites were documented by browsing internet, secondary data and consulting experts. Categorization of agricultural university websites into agricultural universities, veterinary universities, fisheries universities, horticultural universities, universities with agriculture faculty, deemed universities and central agricultural universities was done.

RESULTS and DISCUSSION

An effort was made to document the agricultural university websites in India with the help of available secondary data. The information presented

in the tables was taken from various online sources like Wikipedia, Indian Council of Agricultural Research (ICAR) website, University Grants Commission (UGC) website, books and journals etc.

From the above sources of information it was found that there were 789 universities under UGC across India and 76 were agriculture and allied universities among them (Table 1).

Table 1. Category-wise number of state agricultural universities documented summary (n= 76)

Type of university	Frequency
Agricultural universities	44
Veterinary universities	13
Fisheries universities	02
Horticultural universities	05
Universities with agriculture faculty	05a
Deemed universities	05
Central agricultural universities	02
Total	76

Documentation of agricultural university websites according to their status and Alexa traffic rank

Table 2 has a list of agricultural university websites in India with their Unique Resource Locators (URL), status and Alexa traffic rank. The SAU websites in India were categorized into agricultural universities, veterinary universities, fisheries universities, horticultural universities, central universities with agriculture faculty, deemed universities and central agricultural universities and it was found that all the university websites were active.

The least is the traffic rank more heavily the site is visited. Banaras Hindu University (32086) was ranked first among all the university websites followed by Tamil Nadu Agricultural University (33227) and Aligarh Muslim University (54099). Central Agricultural University got last rank (6763023) among all university websites followed by North Orissa University of Agriculture and Technology (4673506) and Banda University of Agriculture and Technology (4049265).

Tamil Nadu Agricultural University (TNAU) stood first (33227) among agricultural universities, Rajasthan University of Veterinary and Animal Sciences

(RAJUVAS) (296223) among veterinary universities, Dr Yashwant Singh Parmar University of Horticulture and Forestry (YSPU) (440800) among horticultural universities, Banaras Hindu University (BHU) (32086) among central universities with agriculture faculty, Indian Agricultural Research Institute (IARI) (98416) among deemed universities and Rani Laxmi Bai Central Agricultural University (3165907) among central agricultural universities.

Documentation of websites by URL extension

It is observed from Table 3 that 47.37 per cent of the websites were having '.ac.in' URL extension followed by '.edu.in' with 18.42 per cent, '.in' with 10.53 per cent, '.org' with 10.53 per cent, '.nic.in' with 3.95 per cent, '.res.in' with 2.63 per cent, '.edu' with 2.63 per cent, '.ernet.in' with 1.32 per cent, '.net' with 1.32 per cent, '.org.in' 1.32 per cent.

Nearly half of the universities (47.37%) were found to have URL extension as '.ac.in' followed by '.edu.in'. Probably these extensions were reserved for academic and higher educational institutions.

Documentation of websites by directory of world universities ranked according to their presence on the Web

Directory of World University, cybermetrics lab is ranking university websites worldwide. There were 50 agricultural university websites among all university websites in India in the list (Table 4). It is evident that IARI university website ranked first among all agricultural websites with 43rd rank in India followed by TNAU (68) and NDRI (120).

Documentation of websites by National Institutional Ranking framework

In the National Institutional Ranking framework among 100 universities, six were agricultural universities. BHU stood at top among agricultural universities with overall rank of 3 followed by Indian Agricultural Research Institute, Tamil Nadu Agricultural University, Punjab Agricultural University, Anand Agricultural University and Dr YS Parmar University of Horticulture and Forestry with ranks 15, 17, 24, 40 and 84 respectively.

CONCLUSION

Documenting along with status and Alexa traffic rank makes user to know the highest viewed websites. Almost all websites were in active status.

Table 2. Documentation of state agricultural universities websites according to their status and Alexa traffic rank (n= 76)

S/N	Name of the University	URL	Status	Alexa traffic rank
Agricultural Universities				
1	Acharya NG Ranga Agricultural University	http://www.angrau.ac.in/	Active	244009
2	Agriculture University, Jodhpur	http://aujodhpur.ac.in/	Active	2136182
3	Agriculture University, Kota	http://aukota.org	Active	2882541
4	Anand Agricultural University	http://www.aau.in	Active	185644
5	Assam Agricultural University	http://www.aau.ac.in	Active	450230
6	Banda University of Agriculture and Technology	http://buat.edu.in/	Active	4049265
7	Bidhan Chandra Krishi Viswavidyalaya	http://www.bckv.edu.in/	Active	480075
8	Bihar Agricultural University	http://www.bausabour.ac.in	Active	1057366
9	Birsa Agricultural University	http://www.bauranchi.org/	Active	674973
10	Chandra Shekar Azad University of Agriculture and Technology	http://www.csauk.ac.in/	Active	1581057
11	Chaudhary Charan Singh Haryana Agricultural University	http://www.hau.ernet.in/	Active	337369
12	CSK Himachal Pradesh Krishi Vishwavidyalaya	http://www.hillagric.ac.in/	Active	301266
13	Dr Balasaheb Sawant Konkan Krishi Vidyapeeth	http://www.dbskv.org	Active	445552
14	Dr Panjabrao Deshmukh Krishi Vidyapeeth	http://www.pdkv.ac.in/	Active	407380
15	Govind Ballabh Pant University of Agriculture and Technology	http://www.gbpuat.ac.in/	Active	151374
16	Indira Gandhi Krishi Vishwavidyalaya	http://www.igau.edu.in	Active	335977
17	Institute of Agricultural Sciences, Banaras Hindu University	http://www.bhu.ac.in/ias/	Active	32086
18	Jawaharlal Nehru Krishi Viswavidyalaya	http://www.jnkvv.nic.in/	Active	387146
19	Junagadh Agricultural University	http://www.jau.in/	Active	499701
20	Kerala Agricultural University	http://www.kau.in/	Active	217278
21	Maharana Pratap University of Agriculture and Technology	http://www.mpuat.ac.in/	Active	570190
22	Mahatma Phule Krishi Vidyapeeth	http://mpkv.ac.in/	Active	1037519
23	Narendra Deva University of Agriculture and Technology	http://www.nduat.in/	Active	1380050
24	Navsari Agricultural University	http://www.nau.in/	Active	224864
25	North Orissa University of Agriculture and Technology	http://orissauniversity.ac.in/	Active	4673506
26	Orissa University of Agriculture and Technology	http://www.ouat.nic.in/	Active	161737
27	Professor Jayashankar Telangana State Agricultural University	http://www.pjtsau.ac.in	Active	344065
28	Punjab Agricultural University	http://web.pau.edu/	Active	181200
29	Rajendra Agricultural University	http://www.pusavarsity.org.in/	Active	1179447
30	Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya	http://www.rvskvv.net/	Active	829204
31	Sam Higginbottom Institute of Agriculture, Technology and Sciences	http://www.shiats.edu.in/	Active	364529
32	Sardar Vallabhbhai Patel University of Agriculture and Technology	http://www.svbpm eerut.ac.in/	Active	889816
33	Sardar Krushinagar-Dantiwada Agricultural University	http://www.sdau.edu.in/	Active	749586
34	Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu	http://www.skuast.org/	Active	1082916
35	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir	http://www.skuastkashmir.ac.in/	Active	379888
36	Sri Karan Narendra Agriculture University	http://sknau.ac.in/	Active	1136376
37	Swami Keshwanand Rajasthan Agricultural University	http://www.raubikaner.org/	Active	1275867
38	Tamil Nadu Agricultural University	http://www.tnau.ac.in/	Active	33227

39	University of Agricultural Sciences, Bangalore	http://www.uasbangalore.edu.in/	Active	508999
40	University of Agricultural Sciences, Dharwad	http://www.uasd.edu/	Active	594652
41	University of Agricultural Sciences, Raichur	http://www.uasraichur.edu.in/	Active	771944
42	University of Agricultural Sciences, Shimoga	http://uahs.in/	Active	1773776
43	Uttar Banga Krishi Viswavidyalaya	http://www.ubkv.ac.in/	Active	598342
44	Vasantrao Naik Marathwada Agricultural University	http://www.vnmkv.ac.in/	Active	100821
Veterinary Universities				
1	Chhattisgarh Kamdhenu Vishwavidyalaya	http://cgkv.ac.in/	Active	1525447
2	Guru Angad Dev Veterinary and Animal Science University	http://www.gadvasu.in/	Active	520217
3	Kamdhenu University	http://www.ku-guj.org/	Active	2140606
4	Karnataka Veterinary, Animal and Fisheries Sciences University	http://kvafsu.edu.in/	Active	1608702
5	Kerala Veterinary and Animal Sciences University	http://www.kvasu.ac.in/	Active	548642
6	Lala Lajpat Rai University of Veterinary and Animal Sciences	http://www.luvass.edu.in/	Active	515338
7	Maharashtra Animal Science and Fishery University	http://www.mafsu.in/	Active	983486
8	Nanjai Deshmukh Veterinary Science University	http://www.mppcvv.org/	Active	3015448
9	Rajasthan University of Veterinary and Animal Sciences	http://rajuvas.org/	Active	296223
10	Sri Venkateswara Veterinary University	http://www.svvu.edu.in/	Active	1119166
11	Tamil Nadu Veterinary and Animal Science University	http://www.tanuvass.ac.in/	Active	478667
12	UP Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwa Vidhyalaya evam Go Anusandhan Sansthan	http://www.upvetuniv.edu.in/	Active	700116
13	West Bengal University of Animal and Fishery Sciences	http://www.wbuaafscs.ac.in/	Active	1570989
Fisheries Universities				
1	Kerala University of Fisheries and Ocean Studies	http://www.kufos.ac.in/	Active	852737
2	Tamil Nadu Fisheries University	http://tnfu.ac.in/	Active	700149
Horticultural Universities				
1	Dr Yashwant Singh Parmar University of Horticulture and Forestry	http://www.yspuniversity.ac.in/	Active	440800
2	Dr YSR Horticultural University	http://www.drysrhu.edu.in/	Active	709535
3	Sri Konda Laxman Telangana State Horticultural University	http://www.skltsu.ac.in/	Active	1265519
4	University of Horticultural Sciences	http://uhsbagalkot.edu.in/	Active	1158238
5	Uttarakhand University of Horticulture and Forestry	http://www.uuhf.ac.in/	Active	1180662
Universities with Agriculture Faculty				
1	Aligarh Muslim University	http://www.amu.ac.in/	Active	54099
2	Banaras Hindu University	http://www.bhu.ac.in/ias/	Active	32086
3	Hemwati Nandan Bahuguna Garhwal University	http://www.hnbgau.ac.in/	Active	156701
4	Nagaland University	http://sasrd.nagalanduniversity.ac.in/	Active	615465
5	Vishwa Bharti University	http://www.visvabharati.ac.in/	Active	125322
Deemed Universities				
1	Central Institute of Fisheries Education	http://www.cife.edu.in/	Active	969472
2	Indian Agricultural Research Institute	http://www.iari.res.in/	Active	98416
3	Indian Veterinary Research Institute	http://ivri.nic.in/	Active	326211
4	National Dairy Research Institute	http://www.ndri.res.in/	Active	256451
5	Sam Higginbottom Institute of Agriculture, Technology and Sciences	http://www.shiats.edu.in/	Active	364529
Central Agricultural Universities				
1	Rani Laxmi Bai Central Agricultural University	http://www.rlbcau.ac.in/	Active	3165907
2	Central Agricultural University	http://cau.ac.in/	Active	6763023

Table 3. Documentation of websites by URL extension (n=76)

URL extension	Frequency	Percentage
.ac.in	36	47.37
.edu.in	14	18.42
.in	8	10.53
.org	8	10.53
.nic.in	3	3.95
.res.in	2	2.63
.edu	2	2.63
.ernet.in	1	1.32
.net	1	1.32
.org.in	1	1.32
Total	76	100.00

Table 4. Documentation of websites by directory of world universities ranked according to their presence on the Web (n= 50)

S/N	University	Ranking (in India)	World rank
1	Indian Agricultural Research Institute	43	2277
2	Tamil Nadu Agricultural University	68	2699
3	Govind Ballabh Pant University of Agriculture and Technology	130	3443
4	Punjab Agricultural University	137	3511
5	CCS Haryana Agricultural University	150	3734
6	University of Agricultural Sciences, Bangalore	153	3752
7	Anand Agricultural University	166	3974
8	Maharana Pratap University of Agriculture and Technology	213	4678
9	Assam Agricultural University	260	5624
10	Kerala Agricultural University	263	5672
11	Sam Higginbottom Institute of Agriculture, Technology and Sciences	270	5790
12	Junagadh Agricultural University	279	5976
13	Navsari Agricultural University	296	6256
14	University of Agricultural Sciences, Dharwad	307	6561
15	CSK Himachal Pradesh Krishi Vishwavidyalaya	333	7185
16	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir	351	7521
17	Acharya NG Ranga Agricultural University	385	8271
18	Orissa University of Agriculture and Technology	555	10833
19	Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu	616	11631
20	Uttarbanga Krishi Vishwa Vidyalaya/North Bengal Agricultural University	739	12844
21	Rajasthan Agricultural University	781	13234
22	Birsa Agricultural University	807	13509
23	Mahatma Phule Agricultural University/Mahatma Phule Krishi Vidyapeeth	884	14162
24	Chandra Shekhar Azad University of Agriculture and Technology	923	14563
25	Rajendra Agricultural University	967	14863
26	Guru Angad Dev Veterinary and Animal Science University	173	4084
27	Indian Veterinary Research Institute	177	4154
28	National Dairy Research Institute	120	3289
29	Tamil Nadu Veterinary and Animal Sciences University	234	5081
30	Lala Lajpat Rai University of Veterinary and Animal Sciences	289	6146
31	Dr YS Parmar University of Horticulture and Forestry	343	7362
32	Kerala Veterinary and Animal Sciences University	315	6769
33	Dr YSR Horticultural University	435	9089
34	Karnataka Veterinary Animal and Fisheries Sciences University	472	9743
35	Kerala University of Fisheries and Ocean Studies	603	11455
36	Central Institute of Fisheries Technology	720	12644
37	Maharashtra Animal and Fishery Sciences University	735	12832
38	University of Horticultural Sciences, Bagalkot	809	13523
39	Bidhan Chandra Krishi Viswavidyalaya	283	6078

40	Jawaharlal Nehru Krishi Vishwa Vidyalaya	624	11733
41	Dr Panjabrao Deshmukh Krishi Vidyapeeth Akola	540	10617
42	Uttarbanga Krishi Vishwa Vidyalaya/North Bengal Agricultural University	739	12844
43	Indira Gandhi Krishi Vishwavidyalaya	774	13175
44	Dr Balasaheb Sawant Konkan Krishi Vidyapeeth	836	13754
45	Mahatma Phule Agricultural University/Mahatma Phule Krishi Vidyapeeth	884	14162
46	Dr Panjabrao Deshmukh Krishi Vidyapeeth	540	10617
47	Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya	1427	17797
48	Vasantao Naik Marathwada Krishi Vidyapeeth	1337	17283
49	Madhya Pradesh Pashu-Chikitsa Vigyan Vishwavidyalaya	1376	17546
50	Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwa Vidhyalaya evam Go Anusandhan Sansthan	1406	17680

Source: <http://www.webometrics.info/en/Asia/India>

Table 5. Documentation of websites according to National Institutional Ranking framework (n= 6)

S/N	University	Score	Rank
1	Banaras Hindu University	58.92	3
2	Indian Agricultural Research Institute	51.20	15
3	Tamil Nadu Agricultural University	48.84	17
4	Punjab Agricultural University	44.99	24
5	Anand Agricultural University	42.26	40
6	Dr YS Parmar University of Horticulture and Forestry	39.54	84

Source: <https://www.nirfindia.org/ranking2017.html>

Nearly half of the universities (47.37%) were found to have URL extension as '.ac.in' followed by '.edu.in'. Probably these extensions were reserved for academic and higher educational institutions. As per the directory of world universities ranking and their presence on the Web 50 agricultural university websites were documented along with their world ranking. Six agricultural universities occupied space among top 100

universities in National Institutional Ranking framework.

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