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WEB CONTENT EVALUATION FOR ASSESSING INTELLECTUAL PROPERTY RIGHT AWARENESS OF ENGINEERING FACULTIES

Rajasree O.P.^{1*}, Mangala A.Hirwade²

^{1*}Librarian, Bhiwapur Mahavidyalaya, Bhiwapur, Nagpur(MS)-India

²Associate Professor, Dept. of Lib. & Info. Science, RTM Nagpur University, Nagpur(MS)-
India

Abstract

The website of an organization depicts the philosophy and purpose of the entity. The website now considered as the only method to make the services available to the last users in the row. The purpose of the paper was to analyze the available information from web site of respective Engineering Colleges affiliated under Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur and evaluate the awareness of faculties in Intellectual Property Rights (IPR). the paper also emphasized on the accuracy and authenticity of the web contents hosted by the website. Evaluation criteria for judging the quality of website have also been discussed. Finally, a comparative study of the contents available at the websites of the above said Colleges have been presented. The study revealed that the websites are lagging behind in exploiting the full potential of IPR awareness among faculties. The result obtained also revealed that many of the websites are ranked above average, is merely providing general information, services and resources. In the IPR related criteria, Ramdeobaba college of Engineering & Management recorded the highest score i.e. 31 out of 31(100%) rating while Col. Bapurao Deshmukh College of architecture scored least score of 5 out of 31(16.12 %). 21(33.87%) colleges put the publication details of faculty. It was observed that 19 (30.64%) colleges not having any website. It was found that copyright status was available in 2 websites only. These findings open the door for improvement of the Engineering college websites. The websites of the universities plays a important role in dissemination of the information and communication. The Engineering colleges were created to train engineers with the aim of developing a skilled workforce to support the economic and social development of India.

Keywords: Web Sites, Libraries, Evaluation, IPR, Awareness, copyright, patent

1.Introduction

Information and communication technology (ICT) plays an important role for enhancing the experience of information about every institution and organization. Currently the information is



communicated very fast with Internet and World Wide Web (WWW). Disseminating and circulating the information is possible by publishing in websites. The information available on the websites can be accessed online at anytime with the help of internet. The websites of the universities plays a important role in dissemination of the information about affiliated colleges, facilities and available faculties details, IPR status of colleges and other relevant details. Websites are the gateway of a university and it is proved as an image of a university. People prefer extracting information needed from the website rather than a physical one. The websites need to be updated regularly for the benefit to end users. In short, the website offers a wide range of resources and services to its users. The design, formats, contents and the information available on the websites vary from one to another, contingent on the nature and theme of the website and its developer (Devi, Krishna; Verma, Manoj Kumar, 2016). Considering the need and purpose of website, the agencies are long been engaged in developing web-based systems. Colleges need to create such websites to push further to attract users thus the users will enjoy interactive experience for high quality online exposure, consonance with the rapid growth of online tools and resources. The Engineering colleges were created to train engineers with the aim of developing a skilled workforce to support the economic and social development of India.

2. Review of Literature

The Internet and web technologies created environment for governments, businesses, educational institutions, and individuals, to webcast the information using multimedia tools. (Mohammed, Abubakar; Garba, Aminu; Umar, Kafiz, 2016).

Another study evaluated the content features of select library websites of Indian Institutes of Technology (IITs) in India and combined both quantitative and qualitative analyses of IIT library websites then, evaluated by a specially designed checklist. A research study found that the websites are failing in exploiting the full potential of web and library features. The result also showed that many of the IIT library websites in India are ranked above average mainly providing general information of the library services and resources. (Madhusudhan)

Evaluation is a worthy judgment of several component elements of a website that facilitates browsing, navigation, searching and locating of the desired information. Evaluation is more of testing the service or system for its effectiveness and efficiency. The Web becomes increasingly prevalent as an information source and searching tool, and then evaluation of the content becomes more crucial. (Notes, 2006) Studies found that websites not served as virtual expressions of the quality levels of the IIM libraries. The study suggested that more effort required to update the library websites regularly. Incorporating the web counter in getting high or low traffic of the site and also improve searching features. This will certainly entice users to library websites and customized user gateways to rich, quality content. (Madhusudhan, Margam; Ahmed, Naushad)

3. Objectives of the study



- a) The purpose of the study was to analyze the information content on the Web pages of the Engineering colleges affiliated to RTM Nagpur University(RTMNU), Nagpur
- b) More specifically, the study aims to better accessibility and use.
- c) To know the IPR related information in the R& D Department provided in the Websites of colleges.
- d) To measure the IPR filed by the faculties of engineering colleges.
- e) To assess the awareness of IPR among the library functioning.

4. Scope and limitations of the study

The study was conducted to develop criteria for evaluation of websites content based on content awareness. A scale of evaluation criteria that has been developed was applied to the websites of Engineering colleges affiliated to RTMNU, Nagpur. The study limited to a group of 62 Engineering and Technology oriented institutes of higher education and learning only.

5. Research Methodology:

Group of 62 engineering and technology-oriented institutes of higher education is considered for the present study. The details of institutions are listed in Table 1, which gives a brief details with their year of establishment, and URL of the institute. The above colleges are located near Nagpur and its adjoining districts like Bhandara, Wardha district of Maharashtra.

The primary data was collected from individual websites of engineering colleges and then put in the MS-Excel sheet for data analysis. The details of R&D cell, patents filed, copyrights acquired, awareness of IPR, library services etc. of engineering colleges were observed.

6. Data collection, analysis and interpretation

A structured checklist was used for collecting data, keeping in view of the stated objectives and literature available, so as to examine the various qualitative and quantitative features of study of engineering college websites. Nineteen college website details are not available in the website (no website). This list comprises 31 dichotomous and open-ended questions, categorized into four tables, Table 2: General Information (5 descriptive questions), Table 3: IPR related fields in the websites (9 questions), Table 4: website accessible details (7 questions) and Table 5: Library details in the website (10 questions).

6.1 Criteria for evaluating content of web sites:

There are four criteria for evaluation of library websites such as:

- I. General information;
- II. Information about IPR and its awareness;
- III. Information about Website accessible details
- IV. Information about Library and copyright information.



The detailed analysis of the data has been done to interpret the observations collected from the websites of respective colleges. The conclusion is drawn from the result obtained from the analyzed data.

The data analysis phase took place from 10 September 2019 to 10 October 2019. Qualitative and quantitative responses were drawn from the evaluation checklist. Each time a cell (i.e., specific feature in the checklist) was checked (marked “Y”), one point was assigned to the respective feature of the Engineering college website concerned. The score for a system was the total number of cells checked for that website. For each Table there was a set of related questions and the responses. The cumulative score of each college is tabulated in Table 6 for the purpose of interpretation of data.

6.2 Total Score, rating scale and ranking of studied Websites

A quantitative method was employed to determine the evaluation of checklist, whether or not it effectively served its intended dual purpose, i.e., to provide a meaningful numerical rating for each IPR awareness for the Engineering college website and to aid in distinguishing the quality among Engineering college websites with similar information content. Its purpose is best served when comparing and ranking the Engineering college websites with similar purpose, scope and content to rank from ‘excellent’ to ‘needs improvement’. Thirty one IPR awareness related questions resulting in Maximum score of 31.

The range and rating scale for the analysis:	
26-31: Excellent	08-13: Below Average
20-25: Above Average	01-07: Needs Improvement
14-19: Average	

A cursory glance at the Table 6 reveals that out of 62 Engineering colleges, only one of the website found to be ranked ‘Excellent’. Other websites were ranked with ‘Above Average’, ‘Average’, below average or need improvement. Ramdeobaba College of Engineering and Management got the highest total score of 31 out of 31 (100 per cent). While 17 colleges got above average grade, 18 colleges got average grade, 6 colleges got below average grade and only one college got grade, need to improve. In this study five colleges website displayed the details of patent filed by the faculty. 21(33.87%) colleges put the publication details of faculty. It was observed that 19 (30.64%) colleges not having any website.

7. Finding of the study



- 1) The study showed that most of the colleges have general information like name of the institute, email address, fax number, address of the college and phone number in websites.
- 2) It was found from the study that 18 Websites have information on Research and Development.
- 3) Copyright status was mentioned only in 2 websites.
- 4) It was observed that IPR awareness news included in 9 websites only.
- 5) Five engineering college website found to be having the details of patents filed/published.
- 6) Faculty information was given in 29(46.77%) websites
- 7) Plagiarism and trademark details provided in 12.9% & 1.61% websites respectively.
- 8) Details of Total books, E-books, photocopying facility details, faculty publications etc... was provided by 20 to 25 websites, WEB OPAC facility is given in 13 sites. Only very few Engineering colleges provided the information about library staff.
- 9) RCOEM received score of 100% grade in the study of IPR awareness in the Website.

8. Conclusion

In this study, web content evaluated to compare and report the deficiencies in hosting the details on the web for the benefit of users who wish to search the content for various purpose. Various issues concerning IPR awareness, plagiarism, copyright, library functions of engineering college websites have been compared. Even though there is a growing number of ways and means of contacting users of Engineering college, website will remain the main starting-point for searches and the one virtual “entrance” to the college. More importantly, it should be noted that the evaluation of website features are very much a subjective process and is not intended to defame or discredit any study of the Engineering college website. These findings open the door for improvement of the Engineering college websites.

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Smt. Radhikatai Pandav College of Engineering. (n.d.). Retrieved September 22, 2019, from <https://www.srpce.ac.in/>

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HELD on 14th & 15th February 2020.

Organized by: Bhiwapur Mahavidyalaya, Bhiwapur, Maharashtra 441201, India



Table 1: List of Engineering Colleges affiliated under RSTM Nagpur University, Nagpur.

Sr. No.	Established Year	Engineering College Name	Website
1	1983	Manoharbai Patel Abhiyantriki & Tantriki Sanstha, Gondia	www.mptas.com
2	1983	Bapurao Deshmukh College of Engineering, Sevagram, Wardha	www.bapucollege.com
3	1984	Yashwantrao Chavan College of Engineering, Wanadongari, Hingna, Nagpur.	www.yashwantrao.com
4	1984	Shri. Ramdoebabna College of Engineering & Management, Katol Road, Nagpur.	www.shriramcollege.com
5	1984	KDK NandKarmaveer Dadasaheb Kannamwar College of Engineering, Nandanvan, Nagpur.anwan	www.kdknandkarmaveer.com
6	1985	Kavi Kulguru Institute of Technology & Science, Ramtek, Dist- Nagpur	www.kulguruiit.com
7	1990	Priyadarshini College of Engineering, MIDC, Hingna Road, Nagpur	www.priyadarshini.com
8	1996	G.H.Raisoni College of Engineering, Hingna Road, Nagpur	https://www.ghrisoni.com
9	1999	Smt.Radhhikatai Pandav college, Umred road, Nagpur.	https://www.smt.radhhikatai.com
10	1999	Priyadarshini Institute of Engineering & Technology, Near CRPF Camp, Nagpur.	http://www.priyadarshini.com
11	1999	Anjuman College of Engineering, Sadar, Nagpur K.D.K College of Engineering, Umred, Dist. Nagpur.	www.anjuman.com
12	1999	K.D.K College of Engineering, Umred, Dist. Nagpur.	--NA--
13	2005	Saint VincSaint Vincent Palloti College of Engineering & Technology, Gavasi Manapur, Nagpur.ent Palloti	www.saintvinc.com
14	2005	Kal. Bapurao Deshmukh College of Architecture, Sevagram, Wardha	http://www.kalcollege.com
15	2006	Priyadarshini Institute of Architecture & Design Studies, Hingna, Nagpur.	www.priyadarshini.com
16	2007	Priyadarshini Bhagavati Chaturvedi College of Engineering, Harpur Nagar, Umred Road, Nagpur.	http://www.priyadarshini.com
17	2007	Gurunanak Institute of Engineering & Technology, Dahegaon, Kalmeshwar, Dist. Nagpur.	https://www.gurunanak.com
18	2007	Tulsiramji Gaikwad Patil College of engineering & Technology, Mohgaon, Wardha Road, Nagpur.	http://www.tulsiramji.com
19	2007	Shri. Sankarprasad Agnihotri College of Engineering , Sindhi (Meghe), Wardha.	http://www.shrisankarprasad.com
20	2008	Priyadarshini Indiragandhi college of Engineering & Technology	www.priyadarshini.com
21	2008	Dr.Ambedkar college of Engineering & Research, Wanadongri, Nagpur.	https://www.dr.ambedkar.com
22	2008	Rajive Gandhi College of Engineering & Research, Wanadongri, Nagpur.	https://www.rajivegandhi.com
23	2008	Rajashree Mulak college of Engineering for Women, Great Nag Road, Nandanwan, Nagpur.	--NA--
24	2008	Priyadarshini J.L Chaturvedi College of Engineering, Nandanwan, Nagpur.	--NA--
25	2008	Bhasaheb Mulak college of engineering, Butibori, Dist- Nagpur.	--NA--
26	2008	Nagpur Institute of Technology, S.No.13/1, Mahurazari, Katol Road, Dist- Nagpur.	http://www.nitnagpur.com
27	2008	G.H.Raisoni Institute of Engineering & Technology (Co-ed), Hingana Wadi Link Road, Dist- Nagpur.	ghrisoni.com



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28	2008	Shri. Govindarao Wanjari College of Engineering & Technology Salai Godhani, Dist. Nagpur.	http://
29	2008	J.D.College of Engineering, Khandala P.O. Valani, Katol Road, Dist-Nagpur.	http://
30	2008	S.B.Jain Institute of Technology, Management & Research, Yerala Katol Road, Dist-Nagpur	www.s
31	2008	Jhulelal Institute of Technology, Lonara, Dist-Nagpur	www.i
32	2008	Nuva college of Engineering & Technology, Khapari, Tha. Kalmeshwar, Dist- Nagpur.	http://
33	2008	Vaiganga College of engineering & Management, Dongargaon, Wardha Road, Dist- Nagpur.	--NA--
34	2008	Vilasarao Deshmukh College of Engineering & Technology, Mouda, Dist-Nagpur.	--NA--
35	2008	Madhukarrao Pandav college of Engineering, Bhilewada, Bhandara.	--NA--
36	2008	Datta Meghe Institute of Engineering & Technology & Research Sawangi (Meghe), Wardha.	www.
37	2008	Suresh Deshmukh College of Engineering, Selukate, Wardha	--NA--
38	2008	Om College of Engineering, Inzapur, Wardha	--NA--
39	2008	Manoramabai Mundle Vastusasthra Mahavidyalaya, Seminari Hills,Nagpur.	https://
40	2009	Abha Gaikwad college of Engineering, Mohgaon, Wardha Road, Nagpur.	http://
41	2009	Centre India college of Engineering Technology, S.N. 24, 25/1 P.H.N. 12-A, Mouja Lonara Dist-Nagpur.	--NA--
42	2009	Nagarjuna Institute of Engineering & Technology and Management, Satanavari, Dist- Nagpur.	--NA--
43	2009	Gurunanak Institute of Engineering & Management, Dagegaon, Kalmeshwar Road, Dist. Nagpur.	--NA--
44	2009	Vidarbha Institute of Technology, Bhiwapur, Umrer Road, Dist- Nagpur.	http://
45	2009	Acharya Vinoba Bhawe Institute of Technology, Mauza-Pawar, Dist- Wardha.	--NA--
46	2009	Agnihotri College Engineering, Nagathana Road, Sidi, Wardha.	www.
47	2009	Ideas Institute of Design Education Architecture Studies, Hudkeshwar Road, Nagpur	https://
48	2010	Cummines College of Engineering for Women, Mouja Sukali Ta. Hingna Dist- Nagpur.	www.
49	2010	V.M.Institute of Engineering & Technology, Donagargaon, Wardha Road, Dist- Nagpur.	http://
50	2010	Suryadaya College of Engineering & Technology, Vihiragaon, Umrer Road, Dist- Nagpur.	http://
51	2010	G.H.Raisoni Academic of Engineering & Technology, Shradha Park, Hingna Wadi link Road Nagpur.	https://
52	2010	Vidyaniketan Institute of Engineering & Technology , Vidyanagari Gond Khairi Amravati Road, Ta. Kalmeshwar, Dist- Nagpur.	--NA--
53	2010	ITM College of Engineering, Khasara N. 180, Madhi Mandirachya Mage, Ghorapad Road, Kamathi Ta. Kamathi Dist- Nagpur.	--NA--
54	2010	Manoharbai Patel Institute of Engineering & Technology, Shahapur, Bhandara	http://
55	2010	Shri. Babulaji Agnihotri College of Engineering, Nagathana Road, Bypass Haiway Jawal, Wardha.	--NA--
56	2010	Radhikatai Pandav Institute of Architecture, Near Dighori Naka, Umrer Road, Nagpur.	--NA--
57	2011	Tulsiramji Gaikwad Architecture	http://
58	2011	Adarsh Sankar College of Architecture, Pipla Hudkeshwar Road, Nagpur.	--NA--
59	2015	Shri. Datta megha College of Architecture, Wanadongri, Hingna Road, Nagpur.	https://
60	2015	Julela Institute of Architecture, Koradi Road, Lonara, Nagpur.	http://
61	2016	Gov. Engineering College Kapri(Railway), Mihan Punarwasan Wasahat, Nagpur.	www.
62	2016	Shri . Arvi Paranka College of Engineering and Technology, Arvi District, Wardha	--NA--



College serial No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
1) Total No.of book	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	*	Y	N	Y	Y	Y	N	N	Y	N	Y	*	*	*	N	Y	Y	Y	Y	N	N	*	*	*	Y	*	*	Y	N	*	*	*	Y	*	N	N	Y	N	N
2) No. of E-books	N	N	N	Y	Y	Y	Y	N	Y	Y	Y	*	Y	N	Y	Y	Y	Y	N	Y	N	Y	*	*	*	N	Y	Y	Y	Y	N	N	*	*	*	Y	*	*	Y	Y	*	*	*	Y	*	N	N	N	N	N	
3) Web based OPAC	N	Y	N	Y	N	N	Y	N	N	Y	Y	*	Y	N	Y	Y	Y	N	N	Y	N	N	*	*	*	N	Y	Y	N	N	N	N	*	*	*	N	*	*	N	N	*	*	*	N	*	N	N	N	N	N	
4) Links to open access resources	N	Y	N	Y	N	Y	Y	N	N	Y	Y	*	N	N	Y	Y	Y	Y	N	Y	N	N	*	*	*	N	Y	Y	N	Y	Y	N	*	*	*	Y	*	*	N	Y	*	*	*	N	*	N	N	N	N	N	
5) Links to institutional Repository	N	N	N	Y	N	N	N	N	N	N	N	*	N	N	N	N	N	N	N	N	N	N	*	*	*	N	N	N	N	N	N	N	*	*	*	N	*	*	N	N	*	*	*	N	*	N	N	N	N	N	
6) Library staff details	N	N	N	Y	N	Y	Y	N	N	N	Y	*	N	N	N	Y	N	N	N	N	N	N	*	*	*	N	N	N	Y	N	Y	N	*	*	*	N	*	*	N	Y	*	*	*	N	*	N	N	N	N	N	
7) Photo copying facility details	Y	Y	N	Y	N	Y	Y	N	Y	Y	Y	*	Y	N	Y	Y	Y	N	Y	N	Y	Y	*	*	*	N	Y	Y	Y	Y	N	N	*	*	*	Y	*	*	N	Y	*	*	*	N	*	N	Y	N	N	N	
8) Plagarism information	N	N	N	Y	N	N	N	N	N	N	Y	*	Y	N	N	N	N	N	N	N	N	N	*	*	*	N	Y	N	N	N	N	N	*	*	*	N	*	*	N	N	*	*	*	N	*	N	N	N	N	N	N
9) Copy right policy	N	N	N	Y	N	N	N	N	N	N	N	*	N	N	N	N	N	N	N	N	N	N	*	*	*	N	Y	N	N	N	N	N	*	*	*	N	*	*	Y	N	*	*	*	N	*	N	N	N	N	N	
10) Faculty Publication	N	N	N	Y	Y	Y	N	Y	N	Y	Y	*	Y	N	Y	N	Y	N	Y	N	Y	Y	Y	*	*	*	N	Y	Y	N	Y	N	*	*	*	Y	*	*	Y	N	*	*	*	N	*	N	N	N	N	N	
Total	2	4	0	10	3	6	6	2	3	6	8	*	6	0	6	6	5	3	0	7	1	4	*	*	*	0	7	6	5	4	3	0	*	*	*	5	*	*	4	4	*	*	*	2	*	0	0	2	0		

Table 6: Total score of the Engineering Colleges

Sr.No. of the webpage	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Table 2	5	5	5	5	5	5	5	5	5	5	*	5	5	5	5	5	5	5	5	5	5	*	*	*	5	5	5	5	5	5	5	5	*	*	*	5	*	*	5	5	*	*	*	5	*	5	5	5	3	4	5	*
Table 3	3	4	6	7	6	7	7	7	7	7	*	7	0	7	3	6	6	6	7	7	7	*	*	*	7	7	7	7	7	5	7	7	*	*	*	7	*	*	6	7	*	*	*	7	*	7	3	7	3	7	7	*
Table 4	4	0	4	9	3	3	5	3	0	4	4	*	7	0	3	2	3	0	2	6	0	4	*	*	*	3	4	4	3	5	2	0	*	*	*	6	*	*	7	2	*	*	*	2	*	3	7	3	3	0	1	*
Table 5	2	4	0	10	3	6	6	2	3	6	8	*	6	0	6	6	5	3	0	7	1	4	*	*	*	0	7	6	5	5	3	0	*	*	*	5	*	*	4	4	*	*	*	2	*	0	0	2	3	0	2	*
Total score	14	13	15	31	17	21	23	17	15	22	24		25	5	21	16	19	14	13	25	13	20				15	23	22	20	20	17	12				23			22	18				16	15	15	17	12	11	15		