Content Analysis of Engineering College Library Websites in Bangalore: A Study

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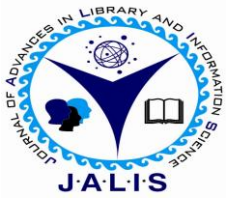
Abstract

A study web-based Engineering college library information resources have grand task to play academic and research activities. Present study provides a survey and general preview of the contents of the websites of Bangalore a few Engineering College Libraries. The study aims to calculate and consider the service facilities and information available on the library webpage's of the respective Bangalore a few engineering colleges. In this article taken 15 Engineering colleges Library websites resources will be discussed.
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Keywords

Content Analysis, Engineering College, Library Websites, Bangalore.

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INTRODUCTION

Academic libraries are nowadays using web environment to provide high quality information for their users mostly in digital format, but their most important role lies in numerous and enriched library services**.** In the age of ICT, the World Wide Web becomes the most important communication tool for accessing and sharing information on the internet. The website offers a wide range of resources and services. The organizations or an institution has their own website where they give a brief introduction of their organization, related information and services provided by them. The libraries are the gateway of an institution. Likewise, the library website/web pages are the primary sources of information of an institution where they disseminate and provide access to information of the users. Content analysis has been used in many fields to examine websites and the impact of design elements and to establish best practices for content creation and design. The significant part of any websites is that, it has to be up-to-date; information should be easily reachable and maintained properly. The library website is known as the gateway of an institution where they Can communicate information with their users. The analysis of library website is an important practice and it has to be done from time to time.

REVIEW OF LITERATURE

There are a number of studies on the subject done in several universities and Technical, Education institution in the country. Out of which a few ones are reviewed here. Prakash (2013) in his study, he analyzed the content available in Central university Libraries Websites in India. It mainly focuses on the information available in the library websites, features of the library websites, online library services, links to other information sources, value added services and so on.Chikkamanju (2015) A study web-based engineering college library information resources have great role to play in academic research activities. Most also provided access to other library catalogues, a description of services and an update date.. Information professionals and users face a number of challenges in networked information resources and service environment. Keeping this fact in view, information professionals are largely depending upon the web-based information resources. Engineering college library websites huge amount of data in every subject stream on different websites. Anna Kaushik (2015) The results of this study revealed that the majority of NIT library websites are providing

information with regard to their name, logo, about library book collection, electronic resources, accuracy, diverse services and sections, but, lacking of library mission statements, currency, reliability search interfaces, Web 2.0 applications and cutting edge technologies like cloud based services. It is also discovered from this study that most of NIT library websites need to improve.

This study will be helpful to judge the quality and diverse facilities present on the 28 NIT library websites in India.Savitha (2016) in his study content analysis of Deemed University Library Websites of Karanataka State. The study reveals that 100% of deemed university library websites provided information about institutions, about library, copyright, books, journals, and about 89% of deemed universities provided information about working hours, library sections, and about back volume of journals, it is found from the study that 100% of deemed university libraries subscribing e-journals, eBooks, and e-databases and 44% of deemed universities provided Facebook and twitter facilities. Panday (2016) in the study, content analysis and usability of IIT library Websites have been examined. Though there is a growing number of ways and means of contacting users and showing the library "services, the library Website should always be the main starting-point for searches and the one virtual "entrance" to the library. The main criteria for quality for a library Website can be summarized thus adequate language; clear structure; options for different user groups; all information up-to-date and short, concise information. The best preparation for creating a website is for library staff to spend some time by surfing the websites of similar libraries or organizations. Savitha, K.S. et al. (2016) the study focused on analysis of contents of engineering college library websites, and made attempt find out the importance of library websites in providing services to users. The study also reveals that majority of the engineering college library website provided basic information of library timings staff and sections

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IMPORTANCE OF INSTITUTIONAL WEBSITE

A website is an emerging technology which plays a vital role in the educational institution. Website is a collection of data which consists of Web pages, Audio, Video, images, documents, which are the assets of website. There are addressed to a common Uniform Resource Locator [URL]. Often consisting of the domain name, IP address, and root path in an Internet protocol based networks. A Website is hosted on web server accessible via network. These sites are used by educators for both professional development and as a teaching and learning tool and usually restricted to general public. Website is one of the significant tools to public the activities of the institution. Website will impart the details of programmer academic, admission, examination, fees, faculty, and calendar, of events, placement, research publication, infrastructure, library facility and resources.

NEED FOR THE STUDY

Engineering College libraries playing an important role to fulfill the needs of users. They need information for the purpose of their research work and educational purpose; it is important that as a librarian we should save the time of users and fulfill their requirements. Technical education institutions members, faculties and students give importance for time in getting relevant information. Library website is a best tool to market their services and fulfill the Ranganathan's fourth Law.

SCOPE OF THE STUDY

Present study of "Content Analysis of Engineering College Library Websites in Bangalore a few colleges: A Study" The scope of the study limited to Bangalore a few Engineering colleges only.

OBJECTIVE OF THE STUDY

The present study aim is to know the information content of the engineering college library websites.

1. To know the general information of Bangalore Engineering Colleges
2. To know the domain structure of Engineering Colleges
3. To know the basic information of Engineering Colleges
4. To know the information about Library Sections
5. To know the about journals, databases and E-resources of engineering colleges
6. To know the Library services provides in Web pages
7. To know the consortium link provided to get E-resources
8. To know accessibility of social network Sites.

METHODOLOGY

The present study has been focused on 15 Engineering Colleges in Bangalore. Using MS-Excel 2007 version tabulation, Analysis and interpretation.

ANALYSIS OF INTERPRETATION

Table 1: General Information of Engineering Colleges in Bangalore

SL.NO	Name of the College	Abbreviations	Year of Est.	URL
1	R V COLLEGE OF ENGINEERING - [RVCE], BANGALORE	RVCE	1963	https://www.rvce.edu.in/
2	RAMAIAH INSTITUTE OF TECHNOLOGY - [RIT], BANGALORE	RIT	1962	https://www.msrit.edu/
3	BMS COLLEGE OF ENGINEERING - [BMSCE], BANGALORE	BMSCE	1946	https://www.bmsce.ac.in/
4	DAYANANDA SAGAR COLLEGE OF ENGINEERING - [DSCE], BANGALORE	DSCE	1979	https://www.dsce.edu.in/
5	NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY - [NMIT], BANGALORE	NMIT	1979	http://www.nmit.ac.in/
6	CMR INSTITUTE OF TECHNOLOGY - [CMRIT], BANGALORE	CMRIT	2000	https://www.cmrit.ac.in/#
7	INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY - [IIIT-B], BANGALORE	IIT-B	1998	https://www.iiitb.ac.in/
8	ACHARYA INSTITUTE OF TECHNOLOGY - [AIT], BANGALORE	AIT	2000	https://www.acharya.ac.in/
9	DON BOSCO INSTITUTE OF TECHNOLOGY - [DBIT], BANGALORE	DBIT	2001	https://dbit.co.in/
10	SRI VENKATESHWARA COLLEGE OF ENGINEERING: [SVCE], BENGALURU	SVCE	2001	https://www.svcengg.edu.in/
11	CITY ENGINEERING COLLEGE - [CEC], BANGALORE	CEC	2001	http://www.cityengineeringcollege.ac.in/
12	AMRITA VISHWA VIDYAPEETHAM BENGALURU CAMPUS, BANGALORE	AVV	2002	https://www.amrita.edu/campus/bengaluru/
13	THE OXFORD COLLEGE OF ENGINEERING, BANGALORE	OCE	1974	http://www.theoxford.edu/engineering/
14	ATRIA INSTITUTE OF TECHNOLOGY, BANGALORE	ATRIA	2000	https://atria.edu/home.php
15	DR. AMBEDKAR INSTITUTE OF TECHNOLOGY - [AIT], BANGALORE	AIT	1980	https://drait.edu.in/

The first BMS Engineering College in Bangalore starts in the year 1946. In the year 1962 Ramaiah institute of technology was started, and 1963 RV College of engineering commenced. In the year 1974 the oxford college of engineering, in the year 1979 Dayananda Sagar College of engineering also NITTE Meenakshi institute of technology was established. The government Engineering Ambedkar institute of technology starts in the year 1980. In the year 2000 three college were started they are AIT, ATRIA and CMRIT; very next year 2001, three colleges were started SVCE, CEC and DBIT. After one year Amrita vishwa vidyapeetham Engineering College was started.

Table 2: Domain Structure of Engineering College Websites

Domain	No.of.Colleges	% age
edu.in	4	26.67%
edu	4	26.67%
ac.in	6	40.00%
co.in	1	6.66%
Total	15	100%

Table 2 reveals that four types of domain extensions were observed in this study. Out of 15 colleges

40.00% of the college websites have 'ac.in' domain extension followed by 'edu.in and edu '26.67% and one college use 'co.in' 6.66%. It reveals that there is no standardization within college websites.

Table 3: Basic Information of Engineering Colleges

Websites Content	RVCE	RIT	BMSCE	DSCE	NMIT	CMRIT	IIT-B	AIT	DBIT	SVCE	CEC	AVV	OCE	ATRIA	AIT
About Institution	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
About Library	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y
Vision & Mission	Y	Y	Y	Y	N	N	Y	Y	Y	Y	N	Y	N	Y	Y
Library Timings	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Library Staff	Y	Y	Y	Y	N	Y	N	Y	N	Y	Y	Y	Y	Y	Y
News & Events	N	Y	N	Y	N	N	N	Y	N	Y	N	N	N	N	N
Membership Details	Y	N	Y	Y	N	N	N	Y	Y	N	N	Y	N	Y	Y
Library Rules	Y	N	Y	Y	Y	N	Y	Y	Y	N	N	Y	N	Y	Y
Contact	Y	Y	Y	Y	N	Y	N	Y	Y	Y	N	Y	Y	Y	Y
FAQ'S	Y	Y	N	Y	Y	Y	N	Y	N	Y	N	Y	N	N	N
Photo's	N	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y
Copyright	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Site map	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	N	Y	Y	N

Table 03 provides the basic information of Engineering Colleges. It is found from the table among all websites about institutions has provided the complete details. NMIT, IIT-B, and DBIT all these colleges have not provided information about library staff. NMIT College has not showing Library timings. RIT, CMRIT, IIT-B, SVCE, CEE and OCE Colleges are not providing Library Membership details and books issued, time period of using books. NMIT, IIT-B and CEC NOT providing contact details. CEC and OCE colleges is about library is not mentioned library websites.

Table 4: Information about Library Sections

LIBRARY SECTION	RVCE	RIT	BMSCE	DSCE	NMIT	CMRIT	IIT-B	AIT	DBIT	SVCE	CEC	AVV	OCE	ATRIA	AIT
Digital Library Section	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Circulation Section	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Back Volume Section	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Reference Section	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Table 04 depicts the information about organization of library different section of the library and it is important that every library website must include information regarding their detailed difference sections. The above table shows all 15 colleges have provided the Digital library section, Circulation section and Reference section. CEC College is not provided back volume section.

Table 5: Information about Collections of Engineering Colleges

Details of Library collections	RVCE	RIT	BMSCE	DSCE	NMIT	CMRIT	IIT-B	AIT	DBIT	SVCE	CEC	AVV	OCE	ATRIA	AIT
Books	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Journals	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Reference sources	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Thesis and Dissertations	N	Y	N	Y	N	Y	N	Y	Y	Y	N	Y	N	Y	N
Newspaper	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Magazine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CD/DVD'S	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y
New Arrivals	Y	Y	Y	Y	N	N	Y	Y	N	Y	N	N	N	Y	Y

Table 05 shows that fifteen colleges have provided information about books, journals, Newspapers and magazine. Except RIT, DSCE, MRIT, AIT, DBIT, SVCE, AVV and ATRIA Colleges has provided Thesis and Dissertations information. Except BMSCE, CEC and OCE Colleges has not provided the information about CD/DVDs. Except NMIT, CMRIT, DBIT, CEC ,AVV and OCE has not provided the information about New arrivals.

Table 6: Information about journals, databases and E-Resources of Engineering Colleges

Websites Content	RVCE	RIT	BMSCE	DSCE	NMIT	CMRIT	IIT-B	AIT	DBIT	SVCE	CEC	AVV	OCE	ATRIA	AIT
Electronic Journals Subscribed	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Member of INDEST ,DELNET, etc.,	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Links to Electronic Databases	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Electronic Thesis and Dissertation	N	Y	N	Y	Y	Y	N	Y	N	N	N	N	N	N	N
Electronic Books	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y

Table 06 shows that only CEC College is not only provided about information Electronic journals subscribed, Member of INDEST, DELNET, etc., Links to electronic databases and electronic books. If other fourteen Colleges has providing these all information. RIT, DSCE, NMIT, CMRIT and AIT Colleges have provided information about Electronic Thesis and Dissertation.

Table 7: Information on Library Services Provides in Web Pages

Library Services	RVCE	RIT	BMSCE	DSCE	NMIT	CMRIT	IIT-B	AIT	DBIT	SVCE	CEC	AVV	OCE	ATRIA	AIT
OPAC	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
CAS / SDI	N	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	N	N
Reprographic Service	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Reference Service	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Digital Library	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Reading Room	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Inter Library Loan	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N

Table 07 shows various kinds of services which are available on the library websites. It is found from this study that RIT, BMSCE, DSCE, NMIT, CMRIT, IIT-B, AIT and SVCE have provided the maximum details in their websites except CAS/SDI. Reprographic services information is not provided in the web pages of RVCE and CEC. Open access public catalogue (OPAC) information is not provided in the web pages of CEC College. Only DSCE, NMIT and CMRIT Colleges have provided inter library loan services. Fifteen colleges has provided digital library services, Reference services and Reading room facility.

Table 8: Information about Social Networking Sites

Websites Content	RVCE	RIT	BMSCE	DSCE	NMIT	CMRIT	IIT-B	AIT	DBIT	SVCE	CEC	AVV	OCE	ATRIA	AIT
Blog	N	N	N	N	Y	N	Y	Y	Y	Y	N	N	N	N	N
Facebook	N	N	N	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Twitter	N	N	N	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
YouTube	N	N	N	Y	Y	N	Y	Y	N	N	N	Y	Y	N	Y

Usage of social networking sites in libraries is essential special Technical Colleges has to provide their services in the Social Networking Sites. Table 08 Shows that NMIT, IIT-B, AIT, DBIT and SVCE colleges which has provided the information about the Blog. RVCE, RIT, BMSCE and CEC are not providing information about social media tools Facebook and Twitter. Only DSCE, NMIT, IIT-B, AIT, AVV, OCE and AIT colleges are provided information about social media tool You Tube.

CONCLUSION

This paper gives an informative preview of the contents and design of Engineering Colleges Library in Bangalore District. It is recommended to meet the drawback of the concern Engineering College library websites which is mentioned in the finding of this study and make amendments in their websites. Librarian of the concern college must take initiative for providing the information of the library websites must be more informative & attractive. It should Capture the attentions of the users. Librarians may develop their skills and technique to design a website by undergoing training and use of internet many Improve the library frequent activates. This can be used better in the interest of institutional goals. The more informative library webpage would be more demanding among the users and the online visitors. Technical Institutions in Karnataka must provide their separate library website which should attract the users and facilitate them with all the services available for their end users.

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