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Full Length Research

Content Analysis of the Autonomous Engineering College Library Websites affiliated to Visveswaraya Technological University (VTU),Belgaum, Karnataka: A Study

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A study web- based Engineering college library information resources have great role to play in academic and research activities. Web sites examined provided access to their own catalogue and some databases. Most also provided access to other library catalogues, a description of services and an update date. Engineering college library today would like to be on the internet because of the web information. And, with its global connections and millions of users, the internet is the world's biggest electronic library and public gathering place, which contains a vast amount of information. 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 is available on different websites.

Keywords: Content analysis, Web based library services, Website analysis, Engineering college libraries

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INTRODUCTION

Content analysis has been defined as a systematic, replicable technique for compressing many words of text into fewer content categories based on explicit rules of coding (Berelson, 1952; GAO, 1996; Krippendorff, 1980; and Weber, 1990). Holsti (1969) offers a broad definition of content analysis as, "any technique for making inferences by objectively and systematically identifying specified characteristics of messages" (p. 14). Under Holsti's definition, the technique of content analysis is not restricted to the domain of textual analysis, but may be applied to other areas such as coding student drawings (Wheelock, Haney, & Bebell, 2000), or coding of actions observed in videotaped studies (Stigler, Gonzales, Kawanaka, Knoll, & Serrano, 1999). In order to allow for replication, however, the technique can only be applied to data that are durable in nature.

Content analysis enables researchers to sift through large volumes of data with relative ease in a systematic fashion (GAO, 1996). It can be a useful technique for allowing us to discover and describe the focus of individual, group, institutional, or social attention (Weber, 1990). It also allows inferences to be made which can

then be corroborated using other methods of data collection. Krippendorff (1980) notes that "[m]uch content analysis research is motivated by the search for techniques to infer from symbolic data what would be either too costly, no longer possible, or too obtrusive by the use of other techniques" .

Background of Technical Education

The Sri Jayachamarajendra Occupational Institute (presently Sri Jayachamarajendra Polytechnic) was started in 1943, with a view to training youths required, by utilizing the munificent donation of Rs 2.00 Lakhs by Sir M Visvesvaraya. Before 1922, the Jaya Chamarajendra Technical Institute, Mysore had a civil engineering section imparting instructions in Civil and Mechanical engineering. The Engineering School, Bangalore was imparting instruction in Electrical and Mechanical engineering.

The expansion of industry during the war as well as in the post-war period created a greatly increased demand for technicians of grades, which was met by expanding the existing technical institutions. By 1955-56, the number of industrial and vocational schools rose to 15. The number of courses in Jayachamarajendra Occupational Institute also increased. Vocational Institutes were started at Hassan (1948), Davanagere (1949), Chinthamani (1950), Bhadravati (1950). In 1954, CPC Polytechnic at Mysore was started. By 1955-56, there were 9 institutions in the then Mysore state (Karnataka Gazetteer, 1986).

OBJECTIVES OF THE STUDY

The study aims to analyse the content of library web sites of autonomous engineering colleges affiliated to Visveswaryya technological University, Belgaum. The study has been under made with following objectives

1. To know the types of information given in the websites of engineering college libraries.
2. To know whether the library website includes information in library collection, membership, library working hours, organization plan.
3. To know the various kinds of electronic information resources and services offered by the engineering college libraries.

METHODOLOGY

The present the study has been 16 autonomous engineering colleges affiliated to Visveswarya Technological University, Belgaum, and Karnataka state were selected. These colleges are selected on basis of their reputation, quality of education offered and also on the popularity. Theses colleges are also listed in the websites. Using MS-EXCEL 2007 Version, tabulation, analysis and interpretation. Table 1

Subject wise website analyses

The Table 2 shows that the entire subject has been included such as Electronic and Communication, Computer Science, Mechanical Engineering, Civil Engineering etc. Also table 2 clear form the picture 90.00% of Subject included from R.V. College of Engineering,Bangalore followed by 100.00% B.M.Sreenivasaiah College of Engineering,Bangalore, 100.00% subject incldeed M.S. Ramaiah Institute of Technology,Bangalore and only 50.00% of subject adopted S. D. M. College of Engineering and Technology, Dharwad, etc.

The majority of B.M.S. College of Engineering, Bangalore have all discipline 100.00% followed by Siddaganga Institute of Technology,Tumkur 90.00% about P.D.A. College of Engineering, Gulbarga, 80.00% colleges have all discipline the subjects

Basic Information of the engineering college Libraries

This study also made an attempt to examine the basic information of the engineering colleges, about the library Libary timings, library staff, library organization etc. This table also clear from the table-3 shows that 100.00% basic information included from BMS college of engineering followed by 90.00%RVCE and only60.00% included PESIT Engineering colleges. Table 3

Information about different sections of the Engineering College libraries

This table shows the information about the digital libraries , circulation and back volume section all the Engineering colleges have been Included 100.00% information about different section of the engineering colleges. Table 4

Information about collections of Engineering College Libraries

The Table 5 indicates information about collection of autonomous engineering college libraries, affiliated to Visveswaryya Technological University, Belgaum, Karnataka, the majority of the collections MSRIT college of Engineering 100.00 % collection included the

Table 1: General information about colleges under study

SL.No	Name	Abbreviation	Websites
1	R.V. College of Engineering,Bangalore	RVCE	http://www.rvce.edu.in/
2	B.M.Sreenivasaiah College of Engineering,Bangalore	BMS	http://www.bmsce.in/
3	P. E. S. Institute of Technology, Bangalore	PESIT	www.**pes**.edu/
4	M.S. Ramaiah Institute of Technology,Bangalore	MSRIT	http://www.msrit.edu/
5	Siddarta Institute of Technology,Tumkur	SIT	www.ssit.edu.in/
6	B.V.B. College of Engineering and Technology, Hubli	BVB	www.**bvb**.edu/
7	S. D. M. College of Engineering and Technology, Dharwad	SDMC	www.**sdmcet**.ac.in/
8	N.M.A.M. Institute of Technology, Nitte	NMAM	www.**nitte**.ac.in/**nmam**it
9	Nitte Meenakshi Institute of Technology,Bangalore	NMIT	www.nmit.ac.in/
10	Siddganga Institute of Technology, Tumkur	SIT	www.sit.ac.in/
11	The National Institute of Engineering, Mysore	NIT	www.nie.ac.in/
12	Sri Jayachamarajendra College of Engineering, Mysore	SJCE	**sjcemysore**.org/
13	Malnad College of Engineering, Hassan	MCE	www.**mcehassan**.ac.in
14	Basaveshvara College of Engineering, Bagalkot	BCE	www.becbgk.edu/
15	P.D.A. College of Engineering, Gulbarga	PDACE	www.**pdaengg**.com
16	P.E.S. College of Engineering,Mandya	PES	www.**pescemandya**.org

Table 2 : Subject wise website analyses

SL.NO.	College Name	E&C	COMP.	MECH	E&E	CIVIL	CHEM	INST	I&M	TEL	Isc	BIOTECH	OTHERS	TOTAL
1	R.V. College of Engineering,Bangalore	1	1	1	1	1	1	1	1	1	1	1	0	**90.00%**
2	B.M.Sreenivasaiah College of Engineering,Bangalore	1	1	1	1	1	1	1	1	1	1	1	1	**100.00 %**
3	P. E. S. Institute of Technology, Bangalore	1	1	1	1		0	0	0	1	1	1	0	**80.00%**

Table 2 : Continuation

4	M.S. Ramaiah Institute of Technology,Bangalore	1	1	1	1	1	1	1	1	1	1	1	1	**100.00 %**
5	Siddaganga Institute of Technology,Tumkur	1	1	1	1	1	1	1	1	1	1	1	0	**90.00%**
6	B.V.B. College of Engineering and Techonology, Hubli	1	1	1	1	1	1	1	0	1	1	1	1	**90.00%**
7	S. D. M. College of Engineering and Technology, Dharwad	1	1	1	1	1	0	0	0	0	0	0	0	**50.00%**
8	N.M.A.M. Institute of Technology, Nitte	1	1	1	1	1	0	0	0	0	1	1	0	**70.00%**
9	Nitte Meenakshi Institute of Technology,Bangalore	1	1	1	1	1	0	0	0	0	1	0	1	**70.00%**
10	B.M.S. College of Engineering,Bangalore	1	1	1	1	1	1	1	1	1	1	1	1	**100.00 %**
11	The National Institute of Engineering, Mysore	1	1	1	1	1	0	0	0	1	1	0	1	**80.00%**
12	Sri Jayachamarajendra College of Engineering, Mysore	1	1	1	1	1	0	1	1	0	1	1	1	**80.00%**
13	Malnad College of Engineering,Hassan	1	1	1	1	1	0	1	0	0	1	0	1	**80.00%**
14	Basaveshvara College of Engineering, Bagalkot	1	1	1	1	1	0	1	0	0	1	1	1	**90.00%**
15	P.D.A. College of Engineering,Gulbarga	1	1	1	1	1	0	1	0	0	1	0	1	**80.00%**
16	P.E.S. College of Engineering,Mandya	1	1	1	1	1	0	0	0	0	1	0	1	**70.00%**

Table 3. Basic Information of the engineering college Libraries

Sl.No	Colleges	About the Library	Library Timings	Library Staff	Library Organization and floor plan	Library news and events	Membership details	Contact	FAQ's	Photo's	Total
1	RVCE	✓	✓	✓	✓	✓	✓	✓	x	✓	**90.00%**
2	BMS	✓	✓	✓	✓	✓	✓	✓	✓	✓	**100.00%**
3	PESIT	✓	✓	x	✓	✓	x	x	x	x	**60.00%**
4	MSRIT	✓	✓	✓	✓	✓	x	✓	✓	✓	**90.00%**
5	SIT	✓	✓	✓	✓	✓	x	✓	x	✓	**80.00%**
6	BVB	x	✓	x	x	✓	x	✓	✓	✓	**60.00%**
7	SDMC	✓	✓	✓	✓	✓	x	✓	x	✓	**80.00%**
8	NMAM	x	✓	x	x	x	x	x	x	x	**20.00%**
9	NMIT	✓	✓	✓	✓	✓	x	✓	x	✓	**80.00%**
10	SSIT	✓	✓	✓	✓	✓	x	✓	x	✓	**80.00%**
11	NIE	✓	✓	✓	✓	✓	x	✓	x	✓	**80.00%**
12	SJCE	✓	✓	✓	✓	✓	x	✓	x	✓	**80.00%**
13	MCE	✓	✓	✓	✓	✓	✓	✓	x	✓	**80.00%**
14	BCE	✓	✓	✓	✓	✓	✓	✓	x	✓	**80.00%**
15	PDACE	✓	✓	✓	✓	✓	✓	✓	x	✓	**80.00%**
16	PES	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	x	✓ ✓	**80.00%**

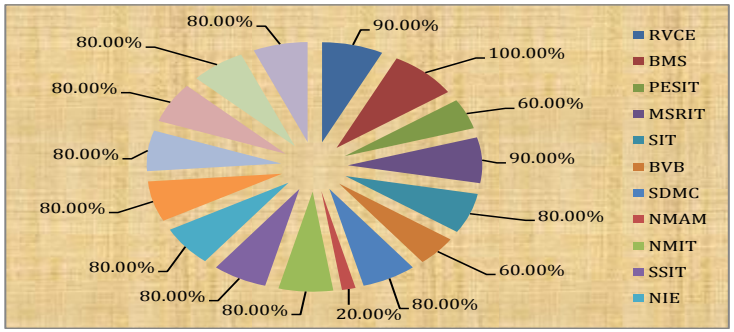

Table 4. Information about different sections of the Engineering College libraries

Sl.No.	Colleges	Digital Library Section	Circulation Section	Back Volume Section	Total
1	RVCE	✓	✓	✓	**100.00%**
2	BMS	✓	✓	✓	**100.00%**
3	PESIT	✓	✓	✓	**100.00%**
4	MSRIT	✓	✓	✓	**100.00%**
5	SIT	✓	✓	✓	**100.00%**
6	BVB	✓	✓	✓	**100.00%**
7	SDMC	✓	✓	✓	**100.00%**
8	NMAM	✓	✓	✓	**100.00%**
9	NMIT	✓	✓	✓	**100.00%**
10	SSIT	✓	✓	✓	**100.00%**
11	NIE	✓	✓	✓	**100.00%**
12	SJCE	✓	✓	✓	**100.00%**
13	MCE	✓	✓	✓	**100.00%**
14	BCE	✓	✓	✓	**100.00%**
15	PDACE	✓	✓	✓	**100.00%**
16	PES	✓	✓	✓	**100.00%**

Table- 5: Information about collections of Engineering College Libraries

Sl.No.	Colleges	Book Collection	CD/DVDs	New Arrivals	Total
1	RVCE	✓	✓	x	90.00%
2	BMS	✓	✓	✓	100.00%
3	PESIT	✓	x	✓	80.00%
4	MSRIT	✓	✓	✓	100.00%
5	SIT	✓	✓	x	80.00%
6	BVB	✓	x	✓	80.00%
7	SDMC	✓	✓	x	80.00%
8	NMAM	✓	x	✓	80.00%
9	NMIT	✓	✓	x	80.00%
10	SSIT	✓	x	✓	80.00%
11	NIE	✓	✓	✓	100.00%
12	SJCE	✓	✓	x	80.00%
13	MCE	✓	✓	✓	100.00%
14	BCE	✓	✓	x	80.00%
15	PDACE	✓	✓	✓	100.00%
16	PES	✓	✓	x	80.00%

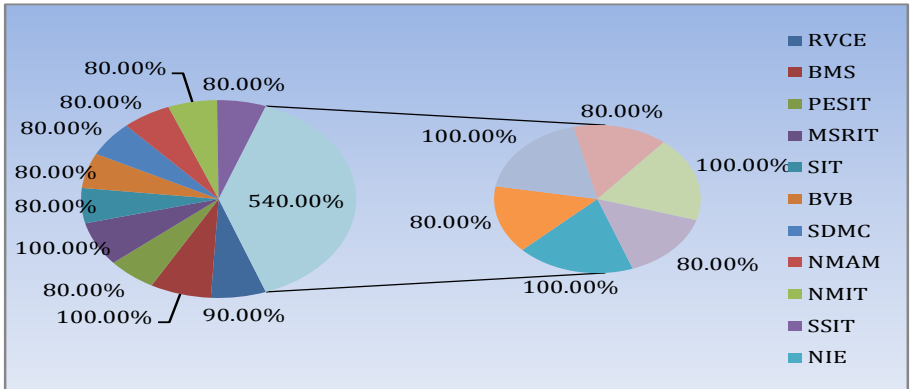

Table 6: Information of Journals, databases and electronic resources

Sl.No.	Colleges	Back Volume of Journals	Electronic Journals Subscribed	Member of INDEST	Links to electronic databases	Electronic Books	Electronic thesis and dissertations	Total
1	RVCE	✓	✓	✓	✓	✓	✓	100.00%
2	BMS	✓	✓	✓	✓	x	✓	90.00%
3	PESIT	✓	✓	✓	✓	✓	x	90.00%
4	MSRIT	○	✓	✓	✓	✓	✓	100.00%
5	SIT	✓	✓	✓	✓	x	✓	90.00%
6	BVB	✓	✓	✓	✓	✓	x	90.00%
7	SDMC	✓	✓	✓	✓	x	✓	90.00%
8	NMAM	✓	✓	✓	✓	✓	✓	100.00%
9	NMIT	✓	✓	✓	✓	✓	✓	100.00%
10	SSIT	✓	✓	✓	✓	x	✓	90.00%
11	NIE	✓	✓	✓	✓	✓	✓	100.00%
12	SJCE	✓	✓	✓	✓	✓	✓	100.00%
13	MCE	✓	✓	✓	x	x	✓	80.00%
14	BCE	✓	✓	✓	x	x	✓	80.00%
15	PDACE	✓	✓	✓	✓	✓	✓	100.00%
16	PES	✓	✓	✓	x	x	✓	80.00%

Table- 7: Information search in websites

Sl.No.	colleges	Access to Local Libraries	Fee based Online databases	WEB OPAC	Search Engines	Total
1	RVCE	✓	✓	✓	✓	**100.00%**
2	BMS	✓	✓	✓	✓	**100.00%**
3	PESIT	x	✓	✓	x	**50.00%**
4	MSRIT	✓	✓	✓	✓	**100.00%**
5	SIT	✓	✓	✓	✓	**100.00%**
6	BVB	x	x	✓	✓	**50.00%**

Table- 7: Continuation

7	SDMC	✓	✓	✓	x	**90.00%**
8	NMAM	x	✓	✓	✓	**90.00%**
9	NMIT	✓	✓	✓	x	**90.00%**
10	SSIT	✓	✓	✓	x	**90.00%**
11	NIE	✓	✓	✓	x	**90.00%**
12	SJCE	✓	✓	✓	x	**90.00%**
13	MCE	x	✓	✓	x	**50.00%**
14	BCE	x	✓	✓	x	**50.00%**
15	PDACE	✓	✓	✓	✓	**100.00%**
16	PES	x	✓	✓	✓	**90.00%**

engineering colleges for the purpose of reading of all engineering discipline students and faculties.

Information of Journals, databases and electronic resources

This table also depicts from the information about journal, databases and electronic resources etc., such as Back volume of journals electronic journals subscribed Member of INDEST links to electronic database, electronic books and electronic theses and dissertation have been summarised. This table also indicates majority of engineering have electronic information resource, 100.00% RVCE college of engineering followed by 90.00 BMS college of engineering PESIT college of engineering etc. Table 6

Information search in websites

It is clear from the Table 7 all the electronic information include the all engineering colleges affiliated to autonomous engineering colleges, VTU, Belgaum, Karnataka, this table also describe access to local libraries form the databases, journals, Web OPAC and search engines. Majority of autonomous engineering have been included the electronic information.

Information on Library Services

This table clear form the picture 8 (Table 8). Information on library service, so many services have been included libraries, the autonomous engineering colleges have been adopted the success fully library services have maintain and provide the servis,to students and faculties such as circulation services, CD-ROM search , Xerox facility, Book bank, etc. 90.00% services have included all autonomous engineering colleges affiliated to Visveswarya Technological University, VTU, Belgaum.

Information on the special collections on the engineering college libraries

This table cleam form the picture, the Table 9 also described the special collection on the engineering college libraries 16 engineering college some special collection such standards, patents and video collections,

CONCLUSION

The present study analysed the content of the selected autonomous engineering colleges affiliated to Visveswaryya Technological University, VTU, Belgaum, and Karnataka. There is a growing number of ways and means to contact users and to provide library services. Thus, the present library websites should provide

Table 8: Information on Library Services

Sl.No	Colleges	Library Membership	Circulation Services	CD-ROM Search	Xerox Facility	Book Bank	Reference Services	Digital Library	DELNET Service	Total
1	RVCE	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
2	BMS	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
3	PESIT	x	✓	x	x	✓	✓	✓	✓	**70.00%**
4	MSRIT	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
5	SIT	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
6	BVB	x	✓	x	x	✓	✓	✓	✓	**60.00%**
7	SDMC	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
8	NMAM	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
9	NMIT	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
10	SSIT	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
11	NIE	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
12	SJCE	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
13	MCE	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
14	BCE	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
15	PDACE	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**
16	PES	x	✓	✓	✓	✓	✓	✓	✓	**90.00%**

Table 9: Information on the special collections on the engineering college libraries

Sl.No.	colleges	Standards	Patents	Video Collections	Total
1	RVCE	✓	x	✓	**90.00%**
2	BMS	x	x	x	**00.00**
3	PESIT	x	x	x	**00.00**
4	MSRIT	✓	x	✓	**90.00%**

Table 9: Information on the special collections on the engineering college libraries

5	SIT	✓	x	x	**80.00%**
6	BVB	x	x	✓	**80.00%**
7	SDMC	x	x	✓	**80.00%**
8	NMAM	✓	x	x	**80.00%**
9	NMIT	✓	x	✓	**90.00%**
10	SSIT	x	x	✓	**80.00%**
11	NIE	✓	x	✓	**90.00%**
12	SJCE	x	x	✓	**80.00%**
13	MCE	✓	x	✓	**90.00%**
14	BCE	✓	x	x	**80.00%**
15	PDACE	x	x	x	**00.00**
16	PES	✓	x	✓	**90.00%**

various web based library services to their users. The quality of any library websites depends on the adequate language; clear structure; options for different user groups; up –to –date concise information.

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