



# “A STUDY ON ROLE OF THE LIBRARIES IN ENGINEERING EDUCATION”

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## Abstract:

*“Education cannot exist on its own without a library support, and a library is redundant if it cannot pass on education.”* Library is information center and its call heart of institutes. Because it is hub of Vast learning resources for the teaching study materials. The library has been a great resources achieving and sharing it to needy users and readers. If we are see the history of traditional library. We find the librarians are small service provider. If we see the little backward in history. In old days the only resources of information was only written books and some the daily newspapers. In that ear it was very easy job to handle by library with little capacity for the librarian as the print resources like books, Newspapers, Magazines were easy to keep and handle also. But Today Technologies changed with time so do; the users and also the initiations had a change accordingly.

Libraries of engineering institutions like IIT, NIT a vital role in the achievement of the objectives of institution as well as society. It is an integral part of the teaching learning process. It is very important part of academic level. Libraries to successfully paly its role in the Engineering Education systems. Libraries must have appropriate resources like information resources, staff, space etc. The libraries of engineering education are make efforts to better services and resources the users by providing maximum services with their available means or resources. In the light of this, the library can serve its users effectively only when it knows their specific requirements. In this study is an attempted to present a comprehensive and up to date overview of the library services and their resources in the state of Maharashtra, India. The present study covers the number of 213 NAAC Accredited Engineering Institutes in Maharashtra.

**Keywords:** Role of the Libraries, Libraries provide equal opportunity, responsible citizen in contemporary society, Teachers and Librarian Collaborative Relationship, Libraries and Education both are interdependent on each other etc.

## Introduction:

The Libraries and information centers are considered as a hub of information which is used for research. And its role can never be denied by education the masses. The first role of library in education is helping the new students to get ready for the new learning as well as the provide information without the constraints about social, cultural and economic impediment on equality basis environment with all facilities. In the age of information explosion and information Technology peoples often feel.

There is another role also play of libraries. Which being played in education and lifelong learning process of them some are mentioned in the below. One is Libraries provide leadership and expertise by using information and its affiliation technologies. The libraries are provided equal opportunities for all readers to reading the information , plan, ideas which are affiliated with some engineering education institutes Libraries playing an important role in the achievement of students at their academic level in the lifelong learning process of the individual the role of Libraries cannot be denied.

Libraries prepare individuals in an information based economy and productive employment. Libraries prepare individually to prove himself as a responsible citizen in contemporary society. Education and libraries are interdependent on each other education without libraries and libraries and libraries without education are paralyzed.

## Objective of the Research:

**The following are the main objectives of the present study:**

- (i) To find out the uses of different types libraries and Resources as well as Services in NAAC Accredited Engineering College Libraries in Maharashtra.
- (ii) To understand the Role of Librarian in the NAAC Accredited Engineering colleges.
- (iii) To find out the role of libraries in engineering education.
- (iv) To understand to library Services Provided by Libraries.
- (v) To find out the objectives of various libraries.
- (vi) To provide suggestions to improve the quality services through print collection, technologies used for automation, OPAC, services and electronic resources and various tools of libraries into engineering college in Maharashtra.
- (vii) To find out the level satisfied with the other facilities in the library.

## Data Analysis and Interpretation:

**Libraries:** Library is place of information is coasted, organizes and disseminated to the right person at the right time. This information is contained in the documents like books. Periodicals, Magazines, Research papers, News Papers, etc. The different sources of information are gathered together so that the queries of different types of users coming to library may be answered. The library tries to serve its users by providing the required information as soon as possible for which it tries to provide information services like current awareness services, selective indexing and abstracting services, all of which are aimed at facilitating the information search and provision process. The information about libraries provides and explains in detail their various collections, functions and services to user.

**Library Provided following Open Resources:**

Sr. No.	Resources	Sr. No.	Resources	Sr. No.	Resources	Sr. No.	Resources
01	NPTEL	02	Ekaiayya	03	E-Grid	04	e-GyanKosh
05	Sakshat	06	e-PGPathshala	07	VLE ( Virtual learning Environment of Delhi University)	08	CEC (Consortium of Educational Communication)
09	National Science Digital Library	10	National Repository of open educational resources	11	E-BIDYA	12	Flexi Learn open course portal
13	A-VIEW	14	SWAYAM	15	SWAYAM PRABHA	16	UGC- MOOC
17	NDL (National Digital Library)	18	NMEICT	19	Shodhganga		

**Useful Library Networks:**

Sr. No.	Name	Full Form	Year of Establishment
01	ADINET	Ahmadabad Library Network	1994
02	BALNET	Bangalore Academic Library Network	1995
03	BONET	Bombay Library Network	1992
04	CALIBNET	Calcutta Library Network	1993
05	DELNET	Developing Library Network	1988
06	INDOLIBNET	Indore Library Network	2008
07	INFLIBNET	Information and Library Network	1991
08	MALIBNET	Madras Library Network	1993
09	MYLIBNET	Mysore Library Network	1995
10	ERNET	Education and Research Network	1986
11	MANLIBNET	Management Libraries Network	1998

**Open Sources Consortiums:**

Sr. No.	Consortium	Related
01	CSIR	E-Journal Consortium
02	CeLCON	Consortium for E-Resources in Agriculture
03	DeLCON	Department of Bio-Technology e-Library Consortium
04	FORSA	Forum for Resource sharing in Astronomy
05	IIM Consortium	Indian Institute of Management
06	ICICI Knowledge Park	Industrial Credit and Investment Corporation of India
07	INDEST-AICTE Consortium	Indian National Digital Library in Engineering Science and Technology
08	HELINET	Health Science Library and Information Network
09	MCIT Library Consortium	Library Consortium
10	UGC- DAE Consortium	UGC DAE Consortium for Scientific Research
11	UGC INFONET	UGC INFONET Digital Library Consortium

**Services Provided By Libraries:**

What users need basically in from of knowledge are facts and related background information, most of the time users are able to get the desired material. In case of total blankness of related subjects or to get the latest updates of the subjects they consult the librarian. This is the moment when the Librarian should put in his hundred percent to attract as well as making the users to continue the readers for demanding more of available material for reference or studies. Following are some of the services which are considered as essential for college libraries.

- (i) Library has to give and receive some of the necessary books either to users or to customers this process is known as Lending.
- (ii) Whatever material the library has in stock it either guides or misguides to the user for sometimes that is why library works as and also known as compass Reader.
- (iii) To provide the latest and only necessary information the library must keep ready Bibliographic Instructions and List of new Arrivals for users.
- (iv) Reference books or western catalogues are quite difficult for any of new comer in that case librarian supposed to work as Assistant for the users.
- (v) It's not possible for the Management or the Librarian to keep in touch with all the users at all the times in such cases the suggestion Box helps to both management as well as to the librarian also. The only thing is both are suppose it seriously and as necessary.
- (vi) No matter how hard the librarian may try but it's nearly impossible for him to keep all the available data which is published in past and present inter Library Loan gives a better option in these kinds of problems.
- (vii) In case of latest developments the library can take precaution to keep in provision of several or specific type of information.

(viii) Reprography offers a better option for preservation and also gives another option to satisfy more number of customers at a time.

(ix) Reservation of specific documents increases the value and capacity of library itself.

(x) The provision to get the Abstract, Indexing are the very basic services needed to be provide by libraries.

### **Educative Functions of the Library:**

Following are some of the educative functions of library which help in creating healthier climate in campus of institution. Which also help the college community to fulfill their requirements and aims?

(i) Bibliographies and Indexes should be maintained through properly maintained catalogues and should be made easily available by means of open to all type of shelves.

(ii) The books and other necessary materials should be provided in library as well as on carry to home for prefixed duration of time allowed by following the norms of respective institution.

(iii) The though set of instructions should be provided to users on time in case of use of necessary materials.

(iv) Necessary information materials should be easily accessible for the users by offering them wide range in proper presentation.

(v) To Club various faculties at the same time is one of the artistic job of librarian which shows his interest and capacity of preformation.

(vi) To provide necessary Bibliographical information of special material of specific faculty.

(vii) To manage the inter library loan relations and related facilities is one of the main jobs of librarian.

(viii) For special projects of teachers and students the library should provide adequate and useful material on time.

(ix) If necessary the library should offer in extended hours of working in meeting the requirements of the users.

(x) Hence the college library exists only to help the respective institute in achieving the basic desired aim on which the institution has established.

(xi) To help students in selection of appropriate material for their studies.

(xii) To assist the teaching staff in selecting advanced material for teaching purposes as well as to keep them properly updated with the recent happening in their field of interest.

(xiii) To provide old one's accordingly with the latest for the further studies of research students or groups.

(xiv) To select only necessary material for library in comparison with syllabus of courses provide by instate and also to provide the other reading Digital material to staff and students for making more continuous atmosphere in campus.

### **Obstacles for College Libraries:**

Same of the most common obstacles that every librarian faces. In most of the institutions the teachers only do not keep their way of teaching in co-operation with available library resources as personally they are not aware of the availability of the resources.

(i) The improper selection or total wrong selection of books becomes major obstacle for the library itself to improve.

- (ii) Sometimes the ups and downs in cost of books according to market condition and inappropriate appearance of books itself also affects directly on availability which in turn affects in image of library.
- (iii) The insufficient physical strength and technical support from management directly reflects on accountability of library.
- (iv) Low level or neglected types of basic services create unwillingness in students as well as teacher about library.

### **The Role of Library Website:**

In today's fast life people do not have time to visit Library on regular basis as also they another option of getting online even from the mobile facility. In this condition the only way to keep the users in routine is through the medium of sentences, Pictures, and colorful pages. Some of the simple services like responding to e-mails on time, alterations in the mode and way of delivery of material and emergency services for researchers. Lancaster discussed about the paperless society before several decades. But in today's world of electronic media the value has increased in case of getting online access to informative material rather than physical presence. One can observe the change in needs of academic users as the access to library has totally changed the way of learning.

Users nowadays are more aware in case of selecting library resources as compare to practical situation just before 20-25years. In those days it was mandatory for all learning and taught people to depend on library for information material. Today the whole scenario has changed with a single click on internet. The old library services were not able to assure the accuracy and on time delivery of necessary information. The most trusted salutation has been discovered by modern technologies for these kinds of problems, that is online website. Website gives us the key for getting publicized worldwide. At the same time websites allow us to access information from rest of the world with latest updates.

In case of library website the librarian can do a fantastic job by catering to not only academic community but also for teachers, researchers, students in groups at the same time. As we know libraries can't work alone. They have to collaborate with vendors, distributors, other libraries for loan purposes and also with the users at the same time.

Today it's possible for the academic libraries to develop their own website with the help of latest technologies and high definition computers. Website is proven to most powerful tool in this electronic era, the only condition is one has to be thoroughly known about the basic interests and needs of customers. Another thing to be followed is one should not stop the process once it has started.

When the user comes to library in person visit he is quiet interested in the appearance of the library. The keeping of books, arrangement for sitting, availability for space to read the physical appearance of the library , as he is only interested in the availability of the desired information in quick time and with the accuracy.

**A proper website should follow some of the following objectives to gain the confidence of the users. These objectives only prove to be the paybacks for the online users.**

- (i) Website provides them convenience in sharing the information.
- (ii) It provides users more capacity to the uses in case of controlled use of information.

- (iii) Website allows the users to select and access to only necessary information instead of carrying heavy quantity of books for the same search.
- (iv) As there is less interaction between two human personalities, it decreases the chances for errors commonly done by humans.
- (v) Users of online Marketing for the library professional.
- (vi) The in charge can arrange more of activities as he has to take less effort for arranging them in actual, i.e. with taking help of the staff, asking for guidance from seniors etc.
- (vii) Online work saves time as well as money both and important than this is the work can be done from any place according to personal convenience of the librarian.
- (viii) The librarian becomes able to contact with many people at same time, as he is not supposed to face the customer physically it helps him to reduce the generation gap and communication errors.
- (ix) Many services and requests can be fulfilled at same time. As both the persons are using high definition technologies there is less chance for error or any type of miscommunication.
- (x) As on website more than one job can be done easily this gives more options for satisfying the users.

If we consider the above said uses then one thing is sure for any kind of library that marketing helps both them, the users and librarian in various ways like the trust is gained of users in less time, the exact quantity of information is available to the both ends at the same time, one can easily know and decide the appearance of information.

**Role of Librarian:** The basic idea behind keeping the librarians in institutions is to create the studious atmosphere in total absence of teacher. He is supposed to work as magnet in case of studies done by students when they are out of the climate of routine classes. To achieve his in reality one has to work in following criteria's.

- (i) By learning the specific methods of colleague teachers he can get acquainted with students, so the students will not feel the absence of teacher.
- (ii) By keeping he updated according to the changes happening in section of curriculum he can keep the library also updated with the consequent books or necessary literatures.
- (iv) By reminding to various faculty members about available material he can make the maximum use of the material
- (v) He can learn and assist to students in case of new technologies which are available in institution; this will also help him to build new and stronger relations with students as they feel more encouraged.
- (vi) It is the duty of librarian to bring to attention about availability of newly fixed services for the faculty by combination of management and library itself.
- (vii) To make faculty students aware about the rare and costly material made available by management for further better results in academics.
- (viii) To provide necessary resources to the teaching staff on time for their personnel research as well as for teaching.
- (ix) Taking Teachers help while formulating any of new rules enhances the opportunities for building better relations between student, Teacher and the librarians himself.

(x) Arrangements of small duration debates, speeches, inter college simple activities done by libraries help students for self-realization, personality development and also works as stimulator for not only students but also for teachers.

(xi) Making suggestions in increasing the availability in literature of primary and secondary level gives proper chance for increasing the image of library with institution itself.

### **Qualities Required for the New Age Librarian to Handle Latest Technologies:**

The different technologies of 21<sup>st</sup> century require many of the skills in a person to deal with fast moving and latest updates. As users are moving towards the ICT sector it has become mandatory for the libraries as well as the institutions to become techno savvy for survival in the explosive era of information some of the qualities necessary for the development of good tech savvy librarian are listed as below:-

- (i) One should have proper technical necessary qualification to handle the latest technologies.
- (ii) The librarian has to develop practical ICT skills properly to handle online queries.
- (iii) The staff working under the main librarian must be literate in various basics of the technologies used in library.
- (iv) The librarian has the chance to develop the managerial skills in latest technologies, as he only has to handle and decide all the simple or complex problems coming in online situations.
- (v) As the Librarian has to train his under working staff personally he should have the communication skills with training skills.
- (vi) It is expected from the librarian to solve or to fulfill the basic or complex demands made by various users at the same time so he must be aware of proper ICT skills.
- (vii) To handle all things at a time like requests, orders, requirements, urgencies, management affairs one has to be strong in confidences level.
- (viii) While preparing for various types of changes and updates in websites or technologies the librarian only has to show all his presentation skills.
- (ix) The librarian is supposed to be only service oriented as he has to many kind of users at same time when it comes to be in providing online services.
- (x) The mutual and proper understanding of the cultural diversity makes the librarian a perfect option from the side of institution.

### **Role of the Engineering Colleges Libraries in the National Assessment and Accreditation Council (NAAC):**

In our country after independence there were huge and drastic changes in all the fields, including the field of education itself. In the beginning of the new developments in higher education there were only 30 colleges (1950-52) with 30 universities. Whereas if we compare the same with today's numbers we have more than 20,000 colleges and more than 500 universities which are having the authority to certify Bachelor's Degree as well as Master's Degree. In our country after independence.

This change has taken place only in the duration of 60 years. According to vast geographical expanse of our country and multiple language systems changing at every 100 to 200 km's distance, it was due and necessary for the Govt. to keep a clean watch on these colleges and respective universities to provide the



best and latest services to upcoming generations to come up with competition raising throughout the world in all the sectors of life. As very few students were capable of migrating outside the country for higher education it became mandatory for the Govt. to provide the same education in country itself with same standards and qualities.

UGC set up an inter university center i.e. NAAC in 1998 to evaluate and grade the universities and colleges in India. It is another initiative taken by the UGC to enhance and uplift the standard of higher education and academic libraries. According to NAAC's performance measuring scale the library is placed in the area of Infrastructural Facilities of a college. In the previous scale out of 100 only 40 marks were allotted for the Infrastructural Facilities of a college. Out of 40, 15 marks were allotted for the library (NAAC, 2006). This was the only means for evaluation of a college library system up to 2006. In 2007; NAAC reviewed their performance evaluation Method. In the new scale only 10 marks are allotted for the college library system (NAAC, 2007).

### Conclusion:

The libraries and information centers are as a hub of research oriented information. Its role can be denied by education the masses. Libraries providing information on equality basis environment with all facilities. Libraries prepare individuals in an information based economy and productive employment. Libraries prepare individuals to prove himself as a responsible citizen in contemporary society. In the short, libraries & information centers and education are interdependent on each other education without libraries and libraries without education are paralyzed.

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