

CHAPTER-VII

IDEAL LIBRARY FOR MEDICAL SCIENCE

7.1 Introduction:

Medical education and medical library are not separated from each other but they are correlated. The medical libraries cannot be developed without medical colleges. The Medical library is a treasure of knowledge. A medical library is a collection of sources, resources for under-graduate and post graduate student. Medical libraries are set up for systematic collection, organization and dissemination knowledge and information. They are very important for us to preserve and maintain the valuable knowledge and information essential to learning and progress.

The vital part of medical education is the medical library. It is essential instrument of any learning at any level. Medical library gives opportunity to users, to learn and self development. It is very essential focus to important for man preserve and maintain the valuable knowledge and wisdom for next generations by preserving the documents through medical libraries so that they can benefit from it. Thus, medical libraries are an essential link of communication between the past, present and future. They are key for open access to information and play a crucial role to medical education development. So medical college libraries must be developed in ideal form.

No one develops without plan and good design. Medical libraries are not exception. All Medical college libraries is not developed without ideal form. A medical library carrying out this role for medical education. It can provide library services, facilities. Medical databases, Digital facilities Online information, current and latest information in digital form. Such as textbooks, journals, magazines and other exercise books related to the curriculum.

Thus, medical libraries are important for medical education. Library services are simply both availability and accessibility of library resources, facilities and services. Information is power and access to information is indispensable to individual advancement as well as corporate educational development so medical library developed by modern technique.

7.2 Need for Developing Model for Medical Library:

According to research study any other library are not satisfied for new technique for library development So new model is useful for library services.

ICT:

The all medical libraries must be use ICT. Library is a place for acquiring knowledge, and a place where one gets the information for his or her studies or research work. Hence the library has a unique importance. The applications of ICT have reshaped the libraries since new technologies are more powerful in collecting and disseminating information. The impact of internet and other technologies have resulted in libraries changing their practices so as to be up to date in the professional activities. The awareness of technology, internet and its capabilities are slowly acknowledged by users and accepted by library professionals. The emergence of networked information services is challenging traditional forms of academic information delivery.

A modernized library has a number of factors to be considered. Today's modernized library has multiple advantages over the traditional library. The new technologies have made a drastic impact on the functional systems of libraries. The daily introduction of new technologies over the computer and the internet has carried information science to unimaginable levels and a different world altogether. Since, a library is an information provider agent, the changes taking places in computer and internet etc. has a direct impact on libraries. Through the internet users have access to information, place without even visiting the library. A numbers of tools are available to access the required information at any place and also to interact by expressing your views to the information made available. Library operations are covered by several kinds of software which are performing almost all the operations of the libraries. **Bansal (2010)** According to Bansal in modern age library must be develop by following points use of different technologies such as

- Internet
- Network technology
- Scanning
- Barcode
- Digital and web pages

- Web technology
- Book mark system

Above tools are useful for the librarians for better information storage, and dissemination of information. Web technology helps in resource sharing among libraries and plays an important role in modernization of libraries.

Graves and Martin (1998):

He also opined that organizational changes such as downsizing, reinventing the organization, mergers, and customer-focused services are to be considered while re-engineering libraries. Re-engineering is reinventing the way one does business, by stepping back and examining values, goals, and the system processes used to meet these goals. Process redesign is often an outcome of this evaluation. However, the customer remains at the center of each process, with systems being redesigned to meet customer needs and demands. While re-engineering the steps considered are examining the current process, user's expectations, information seeking behavior ISB, preferences and based on these, the process is redesigned. It is a practice to modernize the libraries but it is not simple, unless every library professional develops action plans.

According to medical council of India and university grant commissions Delhi suggest some points for development of medical libraries by let us technique. Medical college has taken various major initiatives to improve the existing infrastructural facilities as well as adding some more new facilities in academic. The construction of the new building for the Central medical college library was very welcome step. The major reasons for constructing new building for the medical college library are listed below:

To meet the ever-growing, complex and multi faceted information needs of the modern day users community and also to meet the potential challenges and changes of ICT and its application in library and information activities. **Helonkomlaf opadeji (2009).**

To have the Central Library building at the central location of the highest esthetic quality with all modern world class facilities by ensuring easy access to the content in all formats for the consultation, study, research and reference.

The old type Library building are inadequate to accommodate the ever-growing collections, users population, library staff, stacks user satisfaction and to implement new information technology

Increased students in-take and expanding activities of the Institute in terms of new courses, research, development.

To provide adequate reading space to users and more work area for the staff under “Open Access” environment and constructing the library building more functional, ecological sustainable and viable for the future.

To provide various value added services and facilities to users like Digital Knowledge Center, journal section, reference section ,old book storage section, sufficient stack section Research Carrels for serious study, Book Bank, Computing Room, Microfilm room, video and cassette room.LCD Projector room.

To provide separate room for librarian and daftaries

To provide functional access to ever-growing collections and also to house special collections like theses, specifications, , reference sources, text books and to display the latest additions to the l Library.

To provide conducive, users friendly and noise free learning environment to users and making the Central Library as the hub of activities by providing easy access and free movement to the physically challenged users.

Location of library buildings:

The medical libraries do not have separate buildings . But as per certain acts the medical libraries should have well equipped separate building and it should be at a distance of almost 500 feet away from the college building which could maintain silence at the library premise and the users would enjoy a peaceful and undisturbed reading. The medical college started time minimum 13 thousands sqft area is essential for every libraries and area will increase then intake capacity will increase. The location for medical library building near to the medical college. This location is comfort for the all faculty as well as students. The entire facilities, services, collections in the Central Library building have been organized on various levels, which are given below:

Ground flower :, Book Bank, Theses Consultation Room, Store-room, old book store room, Bindery

Section 1:

Circulation Counters, User Terminals, , RFID Gates, Electronic Security System, p, Touch Screen Information Kiosk, , Rooms of Librarian, , Books Acquisition & Technical Processing room , Server Room, UPS Room, Book Stack sand book circulation counter.

Section 2-: Digital library, video and cassette room and microfilm room

Section 3: Journal section, Xerox Room, Information Desk, Research Carrels, Reading Seats , Bound volumes

Section 4: Reference section , and reading seats

Section 5: Teachers separate reading arrangements are essential

Section 6: Separate reading hall seating arrangements depend on intake Capacity

Qualification of Medical Librarians:-

The medical librarians qualification must be master degree in library science

Library staff:

The staff is one of vital resources of a library, which perform various function and duties to fulfill the objectives of the library. The adequacy of library staff is indefensible to carry out functions of library services efficiently and effectively. In the absence of a qualified and trained staff, it may be difficult to fully exploit the activities at the libraries and needs of users. so library staff strength will be depend on student intake capacity. Staff strength will be as per need of the concern.

Library budget:

The library budget must have its required to fulfill the need of the clients promoting KBI services & resources from its planned library budget.

Library working times:

The medical college library opens from 9.00 a.m. to 8.00 p.m everyday. Saturday is half day and Sunday is full holiday But reading hall is open 24 hours essential.

Need of Library Committee:

The allopathic Medical college library committee consist of following type,

- The Principal
- The head of department;

- The Librarian
- Student representative

In practice, the medical college librarian has the executive responsibility for the day-to-day management of the library. Through the committee, the committee always give to advice for improvement library services.

Functions of Library Committee:

1. Formulation of library policy in relation to the development of resources for institution
2. Advising the allocation of book funds to the library
3. Advising on the policy of reproducing unique materials
4. Developing a general programme of library services for all the interests of the college.

The functions enumerated by Wilson & Tauber (1959) are not at all comparable to the functions of Library Committee in Bangladesh. The Librarian as the key KBI professional of the library must work efficiently and actively and accept the recommendation of the library advisory committee and implement it as per need of the clients. The Library Committee of the allopathic medical college the following powers and duties

- a. To lay down general policy in relation to the development of library resources for academic purpose;
- b. To frame the budget of the Library;
- c. To consider schemes and plans for the advancement of the Library
- d. To consider any other matter referred to it.

The librarian, who is an expert of the library business, is the administrator of the library and normally acts as the member secretary of the Library Committee.

7.3 Units in Medical Library:

There are different sections works as the efficiently to provide the excellence for the students. These sections like stack and book circulation section, Reference section, journal section and digital library section, acquisition processing Reprographic ,binding etc.

- Circulation Section:
- Reference Section:

- Journal section and bound volumes:
- . Reprographic Section :
- Daily Newspaper Section:
- Rare Section

7.4 Library Services:

1. Current awareness services
2. Bibliographic services
3. Interlibrary services
4. Content page services
5. Selective services
6. Book exhibition services
7. Book reservation services
8. News paper Clipping services
9. Document delivery services
10. Referral services
11. Translation services
12. Indexing
13. Abstract services
14. Review of preparation
15. Citation Analysis services

All services are essential to medical libraries for academic purpose

7.5 Major Facilities:

The allopathic medical college has identified central library for medical college. it is knowledge resources center for the creation and recreation of academic activities , source for enabling networking between users for improving the flow of information.

The new library building has made arrangements for the following facilities.

- Property Counter
- Digital Knowledge Center
- Circulation Desk

- Student reading hall
- Staff reading room
- Video and cassette room
- Microfilm room
- Book Bank
- Book bindery
- Librarian's Room
- Library stack section
- Reference section I
- Journals section with bound volumes section
- To provide medical science accessible database to national /international level.
- Analysis and consolidation of Indian data /literature in the field
- All medical libraries subscribe 1500 e- Journal and 300 to 350 national and international print journals are essential.
- Books are 25 to 35 thousands are essential.
- Bound volumes are 40 thousands are essential
- Web blogs are essential.
- Book mark system is essential

Selected Areas:

The entire Central Library building is focused on the various selected areas. These areas have been identified on the basis of the principles of utility, proximity, relevance, visibility, convenience, staff-users interface and flexibility. The areas identified are grouped into five, which are listed below:

- Collection Area (books, journals, non print materials, digital resources)
- Reading and Study Area (meeting areas, study, browsing, display, tables and chairs)
- Staff Area (service desks, staff work area, offices, storage)
- Amenities Area (toilets, water coolers, store rooms, maintenance, lobby, foyer, corridor, photocopier)
- Additional Services Area (multipurpose room, UPS room, computing room, , AHUs, media resources center, research carrels,)

Other Distinguished Features are listed below:

- Students and teachers comfort level is very high
- Learning friendly environment
- Provision of focus light
- Storage and sanitation facilities at each Levels
- Split air conditioning
- Stepped terrace and roof for atrium area
- Aluminum grills with smaller size mesh on windows to prevent pilferages of books
- Acoustical characteristics Back Volumes Reading Hall
- Side walk facility
- Roof slabs i.e. grid slabs are designed without intermediate support for span of more than 15 meters.
- Effective use of natural lights
- Outstanding architectural exterior
- Energy saving design with natural ventilation system
- Reading space adjacent to stacks
- Feeling of spaciousness
- Provision for fire detection and control systems
- Provision for elevator

Allopathic Medical Library to achieve Academic Excellence:

During ancient day's libraries used to be termed as the storehouse of books and the librarians as the custodians of books. With the trends and developments in ICT, the concept of library and librarianship has totally changed. Currently libraries are treated as the gateways to knowledge resources, center for creation and recreation of academic activities and similarly librarians as the knowledge manager or interpreter of thought contents. Pursuant to this, presently librarians are not only involved in the collection building of printed resources but also to make all necessary arrangements to procure digital resources, create e-information environment to manage enhanced and diversified information needs of users under digital era. Realizing the importance of this fact, the allopathic medical college library of Maharashtra. is deeply engaged to create infrastructure and environment

so that academic excellence is achieved. The entire institution resonates in its support of teaching, learning and of the growth and development of its members

- Decisions are guided by their impact on the teaching and learning environment
- Administration and staff culture is nurtured to support the academic mission.
- Expectations of students, faculty and staff are high
- Each person takes his/her role seriously
- The faculty is committed to facilitate the transformation of students
- The faculty and students are excited by intellectual pursuits
- Opportunities exist for students to select a course of study that is appropriate to their needs and abilities
- Managing electronic information resources rather than managing physical collections. This requires continuous scanning of the horizon not only for the most appropriate and relevant resources but also the most cost-effective arrangements.
- Converting the library into a knowledge center to manage the different types of knowledge within expertise databases, institutional databases, and regional documentation databases to support learning and research at the national, regional and international level
- Managing networks of knowledge resources and centers and acting as a hub to support access to and use of knowledge
- Collaborating with universities and research centers to support knowledge translation and to provide evidence for policy and action through systematic and in-depth research
- Supporting staff training to build capacity in searching for and managing information resources
- Strengthening the role of end users in ensuring the sustainability of the virtual library as an essential part of the virtual community

Keeping in view the above facts medical college libraries has vision to be an academic health education . The quality policy of aims to pursue global standards of excellence in all our endeavors namely, teaching, research, consultancy, continuing

education and to remain accountable in our core and support functions, through the process of self evaluation and continuous improvement.

7.6 Information Technology Infrastructure:

To translate the quality policy of medical college the Library has been provided IT infrastructure and other world-class facilities to provide dynamic library and information support services for achieving academic excellence in all the core activities. The major IT infrastructure provided is listed below:

- Wireless Networking
- Digital Knowledge Center with over 100 systems
- Internet Connectivity (34 MBPS)
- Sun fire™ 15K File Server, Web Servers, Workstations and Thin Clients
- Smart Cards Generation Hardware and Software
- RFID system is essential.
- Auto Checking and Auto Checkout System
- Auto Shelf Check System
- Scanners-Handheld and Flatbed
- Portable Data Capture Unit and Electronic Display System
- Laser and Thermal Laser Printers
- CD-Writers and CD-Level Printer
- Laptop, LCDs,
- I-Portal, Fiber Optic Cables and 50 KVA UPS
- CD-ROM Databases, E-Journals, Standards, Patents Databases
- VTLS- Virtual Library Management Software
- On-line Full text as well as Bibliographical Databases
- Book mark facilities is very essential.
- Web blogs are essential
- Smart card facilities.
- special medical databases is essential.
- Web page

The allopathic medical library has taken various initiatives to improve the existing infrastructure, facilities, services and collections to provide strong and dynamic support to the academic, research, development, continuing education,

Library Automation:

This unit has no. of computer are use for library activities .This whole unit working under medical librarian. Procurement of internationally recognized library software.

- a) Availing CD-ROMS (Compact disks-read only memory) facilities for users
- b) Catalogue entries of books
- c) Catalogue inputs of recommended readings.
- d) Catalogue entries of books with ISBN.
- e) Catalogue entries of Rare Books.

Internet facilities:

- Developing medical library own web Page.
- Offering Internet facilities for Research and Development (R & D) to faculty members, researchers, students and staff.
- Developing machine readable catalogue to become on-line, as the catalogues As like library of congress catalogue and British Library and many others are.
- Internationally recognized library software has been installed for use in the library. The software covers such aspects as, acquisition, cataloguing, serials, circulation database, easy search, OPAC (Online Public Access Catalogue) and Internet access set up and utilities.

The project has achieved the following major tasks and objectives:

- Training of the staff in the operation and use of computers and bearing conversant with the software;
- Bar coding of lending stocks;
- New style borrowers cards with bar codes; Journal lists;
- Maintaining the book budget automatically in the main server and ministration PC; The library will accomplish many such details as the automation programme to the library. Some of the project's major accomplishments (**Alam,1999:1-2**) are:
- Browsing from the OPAC (Online Public Access Catalogue) by author, joint author, editor, subject, corporate name, series, accession number, ISBN, date and so on;

- Browsing for the above information from any personal computer (PC) with Internet connection from anywhere in the world;
- Preparing for offering CD-ROM reading facilities, as the trend now is to publish electronically in digitized formats;
- Issuing one single identity and borrowers cards in digitized format for students, researchers, faculty members and staffs; And

Digital Library Initiatives:

Realizing the importance of digital library in academic and research activities, Central Library has implemented soul software Library Management. which has facilitated the integrated workflow and ensuring various value added services, which were a long desire of our users community. Now, users are able to conduct search for the books through i-Portal at their desktops. They can also see their transactions, search history, renew and reserve the books on-line. Users can also request for Inter Library Loan through Document Delivery Service webpage. The software has also facilitated the installation of highly sophisticated facilities as listed below:

- Electronic Book Drop
- Auto Checking and Checkout System
- RFID Gates
- Auto Shelf Checking
- RFID Tagging Station

Database Creation:

The Library Management Software has the facility to provide access to catalogue of books with images, contents, summary and key words through the interface of Synthetic Database.. To provide on-line access to the abstracts of the books through i-Portal

Medical e –database:

The medical libraries are provide specific medical science national and international database. Such as Medline, pub med and Hibsco databases .

Multi-Functional Complex:

The Central Library building has been designed with the objective to function as a multifunctional complex. In this regard, the following special facilities have been developed which are used by group of students for their academic activities:

- i) Digital Knowledge Center
- ii) Research Carrels
- iii) Exhibition and Display Areas
- iv) Spacious Current Journals section
- v) Well Developed Reference section
- vi) Journal section
- vii) Special space for Bound volumes
- viii) Well furnish reading hall
- ix) i-Portal Users Terminals Area
- x) In-house Binding Facilities on Basement
- xi) Book bank
- xii) Microfilm room

7.7 Major Precautions:

On the basis of literature survey as well as experiences of completing the allopathic medical college library of Maharashtra , it has come to our knowledge that college of national and international importance, specialized organizations, professional societies and associations are deeply engaged to build their buildings to meet the existing as well as future user's requirements in their respective areas, with the role objective to provide better and modern infrastructural facilities to their stakeholders. This initiative is ideally considered as a noble step to assist end-users to help achieve excellence in their academic pursuits. In this direction, library plays a pivotal role as a gateway to knowledge resources, a center for creation and recreation of academic activities and the fulcrum of academic life and engine of learning that fuels the academic institution. Keeping in view the experience, the following precautions may be observed while implementing university library:

- Proper Lighting and Ventilation
- Firefighting Arrangements
- Fire Escape Staircase
- Fire Alarm System

- Service Staircase
- Heating Ventilation
- Acoustics
- Safety and Security of Users and Building
- Provision of Emergency Exit
- Proper Air between Stacks
- Glassed Partitions
- Steel Racks with Wooden Panel
- Humidity control
- Earth quake resistant's
- Water proofing

7.8 Library Network & Consortium:

To perform all the KBI services there must be networking of libraries and consortia in compliance with the applicable federal, state, national and international level are essential.

Medical library association:

All medical college libraries are associate with National medical library Delhi, American medical library association and British medical library association. Weather all medical libraries are connects each other, so quality of library services will be increase.

Summary:

There are different ways to develop action plan , ideal role for medical college libraries in Maharashtra. The plan main focus collection development, information services, sufficient space for reading halls, library product, library safety measure, automation and modernization, e-resource development, resource sharing programs, networking of libraries, internet and web tool use, information services, and user and staff awareness programs. All these are relevant to the objectives of allopathic medical college libraries in Maharashtra. Action Plan gives an outline of a systematic approach for improving performance in following years to come. The best action plan covers performance expectations, knowledge base creation, skills development, user behaviors assessment and reviewing user expectations, professional development programs, team work and expert supervision.