

Effective Uses And Purposes Of High Speed Equipments-An Analysis To Promote Library Culture In The Universities Of Madhya Pradesh**Priyanka Shrivastava, Dr. Arun Modak****Research Scholar, Associate Professor****Department Of Library And Information Science****Sri Satya Sai University Of Technology & Medical Science****Sehore****Bhopal****(Received:10October2022/Revised:20October2022/Accepted:30October2022/Published:5November2022)****Abstract**

In order to attain the goals, the university library's number one responsibilities are to aid and facilitate instructional studies and works. It helps the analyzing wishes and needs of the university's instructors and college students of their pursuit of knowledge. The university library gives the books and files required for studies, research and grow. Technical libraries accumulate books, journals, magazines, references, algorithms, tables, charts, audio video lectures and plenty of extra on engineering and associated subjects due to the fact customers are the principle actors within the records system. To attain the intention of librarianship, that's to supply precise, timely, expeditious, and correct records to the proper reader on the proper time on the proper place, library body of workers on the engineering institute spends full-size sums of cash and accumulate diverse portions of recorded records in published and digital forms. These well-stocked libraries provide ICT offerings further to their print and digital resources. Therefore, it will become critical to perform and observe on how those libraries are used.

Keywords-Engineering Libraries, Modern Technical Library, Engineer Librarians, Engineering Digital Library, ICT In Libraries.

Introduction

According to Webster's Dictionary, "A University is an organization of better getting to know supplying centers for coaching and studies and licensed to provide instructional degrees." The modern-day wave of social progress, a lot of that have had an instantaneous effect at the function and use of libraries, may be attributed to better training establishments. The library at a better training organization has continually been visible as a group of guides and a dependable supply of facts. Before the past due twentieth century, while fast improvements in improvements of digital correspondence and facts healing nearly forced libraries to undertake a unique shape for disseminating and turning in facts to college students and employees, this paintings had remained

usually unchanged. One of the world's pinnacle supply of engineers is India. There are many engineering establishments in India that provide undergraduate and graduate programmes in, engineering, architecture, designs, and plenty of greater technical things. A programme supplying the know-how and capabilities important withinside the business and carrier industries is called technical training. In the beyond 20 years, India's technical and control training area has skilled big expansion. India has the second-biggest instructional device withinside the world, in the back of China. The authorities of India's Five-Year Plans, which located a robust emphasis on training, contributed appreciably to the fantastic increase of technical training.

Engineering Education In India

The Indian authorities recognized the significance of imparting technical training in mild of predicted monetary and business expansion. Engineering and technical establishments had been both renovated or newly installed due to the University Education Commission's recommendations. In order to offer top-notch engineering training, the relevant and country governments installed the Indian Institute of Technology and Regional Engineering Colleges (now NIT). There are many centrally managed and country-run engineering schools. Few personal engineering institutes had been based withinside the Nineteen Eighties due to the upward push in call for for engineering training. 3 After excessive school, engineering is the maximum famous desire for lots pupils. As a result, there may be fierce opposition for admission to prestigious schools. Such an institution's front examinations are pretty challenging. More than 1/2 of of engineering graduates come from self- financing personal schools, that are proliferating because of the excessive call for for engineering training. The All India Council of Technical Education (AICTE), an apex frame on the country wide level, turned into based in 1945 to offer the Indian authorities with technical training-associated advice. India has 8997 engineering and era schools with 2.nine million college students enrolled, in step with the HRD ministry. Currently, there are 617 engineering institutes in Madhya Pradesh alone⁴. India's engineering schools are predicted to develop via way of means of 20 percentage annually. The 5 Indian states of Tamil Nadu, Andhra Pradesh, Maharashtra, Karnataka, and Kerala account for 69% of the country's contribution to engineering training, in comparison to a meagre 14% from Uttar Pradesh, Bihar, Gujarat, Rajasthan, and Orissa.

Engineering Library

According to Satyanarayana, K (1997)⁴ “A Library of technical / engineering university or polytechnic may be classed as a unique library”. Similar to different instructional libraries, technical libraries related to engineering establishments collect, organise, preserve, and disseminate facts and information. Engineering libraries offer offerings for quite a few customers, together with undergraduate and graduate students, faculty (coaching and non-coaching), and researchers. Engineering libraries gather books with regards to engineering and related fields. These libraries function information repositories or facts hubs that provide each conventional published substances and facts offerings in addition to ICT-primarily based totally library sources and offerings. The DELNET network, on line databases together with IEE, ASCE, Science Direct, ASME, Springer, and N LIST Resources (thru INFLIBNET), in addition to the NPTEL facility to view video courses, are actually being subscribed to via way of means of those libraries for aid sharing reasons (National Programme on Technology Enhanced Learning). These libraries now have the pro- active, dynamic, involved, participatory, and interpretive qualities.⁵ They provide a energetic putting for instructional paintings and act as a centre for learning. The majority of examine commissions and overview committees have harassed the fee of libraries in better education. To call a few, the Kothari Education Commission (1964-66), the Radhakrishnan Commission (1948), the Sadler Commission (1917), the University Commission (1902), the Hunter Commission (1882), and the University Commission (1902) all recommended for the improvement of libraries in instructional establishments and supplied suggestions for the minimal infrastructure that must be supplied in libraries in better instructional establishments. Electronic sources are developing along conventional substances in cutting-edge libraries, particularly in engineering university libraries for quite a few reasons. Libraries these days must area extra emphasis on facts get right of entry to than facts availability. Libraries rent quite a few strategies and rules to offer easy get right of entry to to facts. The measures include: how books, journals, magazines, and different substances are organized at the shelves; the quantity of copies to be had for the equal title; print and digital aid collections withinside the library; help and preservation on the virtual library; accessibility of digital sources from my university or home (far off login); the format of the library's website; the capacity of the consumer to discover facts; and facsimiles of the substances (cutting-edge cognizance offerings), Information is published on be aware forums and stored up-to-date, and the library's technology (computers, photocopiers, printers, facts on new arrivals, employment news, occasion posters, circulars, etc.) is in top operating order. Every

a success engineering college recognises the library's crucial feature in addition to others. Libraries paintings difficult to tell their customers and to sell scholarly interests and lifetime studying habits. The following dreams guided the established order of engineering university libraries: • Maintaining information • Information dissemination • Added help with research • Support for clients, in particular the ones pursuing technical degrees Any engineering university library's sources may be kind of divided into categories: print codecs and digital versions. The examples of published formbooks, published periodicals, returned troubles of periodicals, query papers, reports, etc. are as follows. Many engineering university libraries now buy digital sources further to print paperwork because of the improvement of facts and communicate technology. The libraries additionally employ e-sources to satisfy consumer needs. Obtaining digital sources like eBooks, e-journals, e-databases, audiovisual substances, etc. has verified crucial. Many libraries create a consortium as a way to proportion shopping energy and triumph over economic limits. Engineering university libraries also are equipped with the maximum latest IT infrastructure to disseminate statistics from the library's digital sources.

Structure Of Modern Engineering Library

At gift there's no any unique shape of libraries with unique connection with any technical or engineering institutions, however it's far the dire want of the existing hour to make and interpret the primary shape of engineering libraries. The distinctive take a look at of numerous posted researches and substances indicates the various crucial matters that is to be covered withinside the primary shape of the libraries of engineering and era. A university library can purchase a huge variety of instructional and academic substances for you to meet the numerous educational and extracurricular needs of each college students and professors. A cautiously taken into consideration acquisition coverage should function the inspiration for judging the collection's quality. The Library Advisory Committee frequently units this coverage. Groups of experts which are well-versed in modern guides and feature a radical information of the literature of their respective fields of specialisation aid the choice process. The librarian and his or her team of workers ought to use gear for international choice to attract the eye of professionals to books on a number of subjects and make contributions to the improvement of a set this is centered at the desires of mastering and teaching. Libraries are centres of information, activity, and era that may be huge and elaborately designed. We want to be aware about the present day library layout principles for you to set up acceptable, secure, and cushty areas for reading, studying,

accomplishing research, or even socialising. There are widespread expectancies nowadays for libraries. To attract a huge variety of people, designers, architects, and engineers are taking part to construct lovely exteriors and interiors. Many of those initiatives emphasize enticing members in more than one context, and that they try for adaptability in addition to a robust feeling of place. According to structural engineers and architects there are positive heads that is want to be carried out for the powerful present day library withinside the international of engineering and era. Some of them are as follows-

- **Furnishings**

The fixtures in engineering library will play a critical function in improving the patrons' experience. The selection of furnishings so as to assist the readers to satisfy their goals, whether or not that's facilitating connections, nurturing creativity or displaying collections. there have to be heading off blocky, heavy furnishings and as a substitute the usage of nimble furnishings that may be moved round without problems in order that the gap will become extra bendy and the library shape wishes to be appealing and fine vibe area with a view to broaden a fine feeling of studying and getting to know amongst students. Along with this the library shape ought to additionally don't forget the subsequent heads-

- Height-adjustable desks
- Flip-pinnacle surfaces
- Side garage bins
- Modular components
- Shelving on casters
- Moveable walls

- **Sustainability**

Libraries want to be each innovative and opportunistic withinside the modern climate. Sustainable library layout is a part of the bigger fashion of sustainable architecture. There are numerous steps we are able to take to make certain that library isn't a entire blight at the environment. Here are a number of them.

- Minimize area utilization via way of means of the usage of an green and desirable experience of area

- Use roof regions for sun panels and set up of lengthy glass home windows in order that the mild maintains coming in enough amount and the scholarswithinside the studying room get sufficient mild and herbal air.
- Maintenance-pleasant construction
- Thermal insulation
- Switchable sockets for PCs and printers
- Library's ecological footprint
- Power deliver from renewable strength source
- Light as required (dimmer switches, step switching) and additionally air conditioners with a view to hold the laptop regions cooler and more secure for lengthy period uses.

Role Of ICT In Engineering Library

The library is the thrashing coronary heart of each organization, educational organization, company, or personal person, and it's far vital for correctly dispensing information during the consumer community. The library has increased in lots of approaches to higher serve the consumer society because of the elevated utilization of ICT. The quantity of textual cloth that looks in special digital codecs to offer wished customers with virtual offerings is swiftly growing withinside the gift virtual era. In order to enhance the effectiveness and performance in their operations and offerings, libraries use computer systems (RavichandraRao, 1995). They additionally provide librarians control information so they'll make clever judgments. Information and conversation technology (ICT) development and use permit libraries to offer their buyers with the desired statistics already found in their collections in addition to get right of entry to the catalogues of different libraries, whether or not close by and a ways away (Chopra, 1998). The majority of India's educational libraries presently use library automation, which first regarded in some unique libraries withinside the past due 1970s. In the cutting-edge era, libraries and statistics centres have a extra obligation to present their customers get right of entry to to the maximum up to date statistics and to assist enhance the high-satisfactory of schooling withinside the nation, however this can't be finished except every organization has an powerful library and statistics machine at its disposal (Kilgour, 1970).nine Therefore, as a part of the general programme of the library schooling machine, the computerization of library facility operation must be established. ICT has lots of use in libraries for plenty special purposes. Through laptop networks, it aids libraries and statistics centres in compiling databases in their holdings and

making them without difficulty handy to customers each outside and inside of the library. When databases are created on a laptop in an automatic library, several offerings, such as bibliographic, indexing, contemporary-day awareness, and selective dissemination of statistics offerings, are mechanically generated and made to be had to customers. Libraries might also additionally now trade sources and offerings greater correctly way to networking, mainly in those instances of growing report fees and shrinking budgets.¹⁰ Implementing ICT gear and device within the statistics provision method as a media and method is the predominant purpose of ICT in libraries. ICT in libraries commonly serves to familiarize buyers with how computer systems and different digital gadgets operate.¹¹ ICT has made it easy and brief to acquire statistics reassets like books, journals, newspapers, etc. The majority of publishers have web sites which are handy through the net, and you could test their catalogues for brand new courses from the library. A librarian can fast region an order on-line and, if necessary, get any questions replied through email. Some of the publishers additionally make their courses to be had on-line. Libraries are not able to supply each piece of statistics to its customers because of growing report expenses and a loss of funding. But way to ICT libraries, this problem turned into resolved. The consumer might also additionally seek different libraries' OPACs independently or request a selected report from the librarian. After looking it, he or she will ask that library to lend the report to some other library. The ICT has made the smooth get right of entry to and availability of e-journals. The term "e-magazine" refers to a model of the traditional print or paper-primarily based totally magazine this is added electronically to the consumer in a single manner or some other. Since its debut in 1965, the broadcast magazine has remained the most important technique for teachers and researchers to communicate, however during the last few decades, the fee of magazine subscriptions has appreciably elevated. The common boom in line with magazine subscription among 1986 and 1996 turned into 147%. The creation of the net considerably modified publishing and made it viable to put up for much less money. The engineering journals and courses are especially luxurious and rarely to discover due to the fact the engineering is a dynamic subject and it isn't feasible to replace each new matters in each day published substances so digital journals made it smooth for everybody to discover all of the substances within the equal region at finger guidelines with using ICT.

Engineering Digital Library

The National Digital Library of India (NDLI) is a digital library presenting seek and read capability in addition to some of different offerings for the gaining knowledge of community. Through its National Mission on Education thru Information and Communication Technology, the Ministry of Education of the Government of India sponsors and courses it (NMEICT). Focused looking is made less difficult with the aid of using using filtered and federated looking, permitting college students to get entry to the correct useful resource speedy and easily. NDLI gives offerings tailor-made to the desires of unique consumer groups, together with examination coaching for excessive college and university college students in addition to process seekers. Services also are presented for fashionable newbies and researchers. The NDLI gives interface assist for the pinnacle 10 spoken languages in India and is constructed to maintain content material in any language. It is designed to house college students of all instructional levels, along with researchers and lifetime newbies, all instructional specialties, all broadly used get entry to devices, and college students with disabilities. It is supposed to make it feasible for humans to put together for conditions with the aid of using gaining knowledge of from exceptional practises from around the world and to make it less difficult for researchers to behavior interconnected studies from many sources. It become created, and controlled with the aid of using Indian Institute of Technology Kharagpur. The availability of sources and accessibility to endless academic statistics is the principle gain of the use of a virtual library for gaining knowledge of. Students enjoy the choice of selecting from a number of gaining knowledge of codecs due to the fact the selections are hand-picked consistent with the path with a virtual gaining knowledge of platform. So, the use of a virtual library, an engineering pupil can pick to research from academic videos. In assessment to a conventional library, a virtual library permits college students to examine approximately or realise from real-time illustrations withinside the shape of infographics or movies, letting them absolutely hold close the subject topics. By giving them get entry to toa enormous array of tutorial sources, it broadens their horizons in phrases of what they are able to research.

Conclusion And Suggestion

In addition to serving as know-how repositories, libraries additionally function cultural transmitters. Information sharing is important to the boom of wisdom. After Independence, libraries started out to thrive, however withinside the present day day, their boom has long gone past their bodily partitions and into the virtual world. ICT has revolutionised library offerings,

series creation, and control, making it less complicated than ever to store and get entry to statistics. It has additionally end up a important device for coaching and studying processes. Traditional offerings are useless in addressing users' wishes at the same time as saving their time. Therefore, instructional librarians haven't any opportunity however to warmly take delivery of and nicely enforce statistics and communicate generation on the way to fulfill users' expectancies and to offer higher offerings and well timed provider enhancement. The vice president, Mr. Venkaiah Naidu, emphasized the fee of instructors and schooling with the aid of using announcing that Google can in no way update a "guru" (teacher).¹⁷ Google gives extra resources, however librarians provide the right ones to the scholars on the proper moment. Libraries are honest reassets of know-how and statistics. Even with the same old library collections, powerful team of workers employees and librarians may also efficiently meet consumer expectancies. It is pretty glaring that the powerful librarians and team of workers are entirely accountable for the library's success.

A library is important to the fulfillment of better schooling in engineering and generation. Collection improvement, reference offerings, circulation, report delivery, consumer schooling, get entry to to digital resources, and different important duties are accomplished with the aid of using engineering university libraries. It is supposed that engineering university libraries will provide dependable, less expensive get entry to to statistics utilizing present day IT capabilities. The Engineering College Library's number one intention is to function a dynamic device for explaining the increasing barriers of know-how. The library makes an attempt to satisfy the valid necessities and needs of its users, from senior teachers running on superior studies to newcomers, on the way to encourage and encourage college students to shape lifelong conduct of exact reading, studying, and studies.

Some of the hints for the betterment of technical and engineering libraries with appointment of superior engineer librarians are as follows-

- In order to speak about and cope with consumer inquiries, the Library Committee will want the help of the IQAC Coordinator.
- To decorate the e-mail alert and cutting-edge recognition offerings, a set email ID is to be created.
- The improvement of institutional repositories ought to be commenced with the aid of using university libraries.

- Every library is needed to provide Wi-Fi get entry to its resources.
- To save you error-loose records, non-erasable barcodes are required.
- To supply the fast and progressed offerings of the library, green team of workers is needed.
- Every library ought to host instructional occasions offering speakers, movies, and different styles of inspiration.
- To enhance the same old of library offerings, extra reference books and courses with realistic packages are required.
- Through virtual library offerings, libraries have to make digital reference objects available.
- Each librarian ought to run consumer schooling campaigns to sell using library resources.
- The library's maximum latest additions ought to be up to date on word board and one reference team of workers member ought to be assigned with the aid of using librarians to assist users.
- To meet the wishes of the researcher, a programme for reference control gear recognition is needed.
- A schooling programme for thoughts maps is needed to elevate instructional standards.
- To expand a programme to elevate know-how of Google Scholar, NPTEL Swayam, etc.

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