INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
CENTRAL LIBRARY

ANNUAL REPORT 2006-07

1. Introduction

The Central Library occupies a place of pride in IIT Bombay and is an essential component of its research and education programme. The Library continues to march towards its mission of facilitating the creation of new knowledge. It strives hard to deliver world-class library and information services to meet the needs of the students, faculty, staff, alumni, industry, corporate houses, and educational institutions. It supports the Institutes's mission to create an ambience of academic excellence in which new ideas, research and scholarship flourish and from which the leaders of tomorrow emerge. It aims to achieve this through the acquisition, organisation and dissemination of library materials, support for the exploitation by users of the rich and diverse collections, and the development of a highly motivated, knowledgeable and skilled staff.

The library during the year has made significant progress in several areas. The library migrated from its home grown software to an integrated library management software, "LibSuite" with improved features. It has installed an open source digital library software, "DSpace" to create a repository of all institutional publications including the electronic theses and dissertations currently being submitted on a different system. Two library officers, Mr. D. Jotwani and Mr. M. N. Jadhav attended 72nd World Library and Information Congress, Seoul, Korea, during August 2006 and 9th International Symposium on Electronic Theses and Dissertations, Quebec, Canada, during June 2006 respectively. In addition to procurement of printed books and journals, the library expanded its coverage of electronic resources. It added over 200 e-journals, over 400 e-books, AAPG (American Association of Petroleum Geologists) Datapages and BioOne. The library hours were increased by 2hours to remain open up to 0100 hours (mid night) during mid-semester and end-semester examinations to help students in their studies. The library earned Rs 28,86,697/- through memberships, overdue charges, photocopying service, printing and downloading facilities and cost of lost books during the year.

2. Collection Development and Management

The library collection comprising of books, journals, theses, reports, standards, pamphlets and other non-book material in sciences, engineering, technology, humanities, social sciences and management is considered one of the best in the country. The collection is heavily used not only by our own students and faculty, but by corporate / industrial houses, educational institutions and others who walk-in to use our library in large numbers.

Collection	*Added during 2006-07*	*Total as on 31st March 2007*
Books, theses, CDs, Videos	4136	2,14,997
TLL & BC (Book bank) collection	473	10,920
Bound volumes of journals	2173	1,06,523
Reports, pamphlets, standards	197	66,513
Photocopies, films	--	4410
Total	6979	4,03,363
Subscription to current journals	--	1400

The library added 6979 items including 91 Hindi books during the year. A book exhibition was organized to facilitate students, faculty, staff and others to browse, select and / or recommend the latest books in their subjects for addition to the library. All the newly acquired documents have been classified, catalogued and kept ready for use. Special care was taken

to neatly maintain the library stacks to facilitate users to locate the desired document quickly, and worn out labels were immediately replaced. The library also undertook binding of 1878 volumes in-house and got 3000 volumes bound through vendors. The Catalogue of Current Periodicals 2006 was also brought out during the year and is available on the web site. The collection of 9220 old and unused foreign language books written off last year were processed for disposal.

3. Digital Library

Central Library is a part of the institute-wide network built around a fiber optic giga bit ethernet backbone comprising of five routing switches. The library is connected to the backbone through one of the routing switches. Institutes' backbone in turn is connected to 32 mbps of Internet band width on leased links from VSNL and Reliance. The library has 12 servers, 70 PCs and other accessories adequate to cater to the needs of the users. 25 PCs are meant for users to access OPAC, databases, e-books, e-journals and other e-resources. The reading area in the library has been WI-Fi enabled to provide wireless access to the Internet. The library also acquired a new Tulsient CD-Mirror Server during the year.

Central Library has taken several initiatives to provide Digital Library services to the users. It has its own homepage, provides web-based access to its collection of books and other reading material, procures over 10,000 electronic books, journals, and databases, and has set up an institutional repository of all publications brought by IIT Bombay community.

3.1 Library Homepage   (http://www.library.iitb.ac.in)

Library Homepage provides a single window to all the resources and services of the Central Library. It allows to :

- Search/Browse the material in the library (Search Library Catalogue, OPAC)
- Check the materials borrowed by a user and their due date
- Know the recent arrivals
- Access E-Resources (books, journals, theses, databases and multimedia products)
- Submit dissertation / thesis (IIT Bombay students only)
- Download library membership form, Book suggestion form, library guide (Know Your Library)
- Locate library material (Collection organization)
- Ask the librarian, to know more.

Library homepage is one of the most popular sites and received over 14,55,000 hits during the year.

3.2 OPAC (On-line Public Access Catalogue)

The OPAC is one of the most heavily used databases of the library and is accessible 24x7 via library web site. Besides listing all the documents available in the library, it allows on-line reservation, circulation, fine collection, and indicates status of a particular book etc. OPAC is searchable by author, title, accession number, subject and several other fields.

*3.3 E-*Resources

The Central Library provides web-based access to over 10,000 full text journals and 10 databases 24 x 7 on institute-wide network as per the following details :

3.31 Full text Journals

ABI Inform / Proquest Science	-	http://proquest.umi.com/pqweb?RQT=302&cf=1
ACM Digital Library	-	http://portal.acm.org/portal.cfm
ACS Journals	-	http://www.library.iitb.ac.in/dres/ACS.html
AIAA Journals	-	http://www.library.iitb.ac.in/dres/AIAA.html
AIP Journals	-	http://www.library.iitb.ac.in/dres/AIP.html
AMS Journals	-	http://www.ams.org/journals/
ASCE Journals	-	http://www.pubs.asce.org/journals/jrns.html
ASCE Library	-	http://www.ascelibrary.org/ascecp
ASME Journals (+ AMR)	-	http://www.asme.org/publications/journals
ASTM Journals	-	http://journalsip.astm.org
ASTM Standards	-	http://enterprise.astm.org
Blackwell Journals	-	http://www.blackwell-synergy.com
Cambridge University Press Journals	_	http://journals.cambridge.org
Capitaline	-	http://www.capitaline.com/user/framepage.asp?id=1
CRIS-INFAC CRISIL Ind. Information	-	http://www.crisil.com
EBSCO Databases	-	http://search.epnet.com/
Emerald Full text	-	http://www.emeraldinsight.com/
Euromonitor GMID	-	http://www.euromonitor.com/gmid
IEEE/IEE Electronic Library Online	-	http://ieeexplore.ieee.org
INSIGHT	-	http://www.insight.asiancerc.com/
JSTOR Journals Archive	-	http://www.jstor.org
IOP Electronic Journals	-	http://www.iop.org/EJ/main/-list=current/
Material Science and Engineering Collection (Trans Tech)	-	http://www.library.iitb.ac.in/dres/ejn.html
Nature Online	-	http://www.nature.com/nature/index.html
Project MUSE	-	http://muse.jhu.edu
RSC Journals + Archives	-	http://www.rsc.org/is/journals/j1.htm
Science Direct	-	http://sciencedirect.com/
Science Online (AAAS, USA)	-	http://www.sciencemag.org
SIAM Journals Online	-	http://epubs.siam.org/
SIAM's Online Journal Archive (LOCUS)	-	http://locus.siam.org/
Springer verlag Link	-	http://www.springlink.com/

Taylor & Francis Journals   -   http://www.library.iitb.ac.in/index.php?option=com_content&task=view&id=139&Itemid=1
Wiley Journals   -   http://www.library.iitb.ac.in/index.php?option=com_content&task=view&id=140&Itemid=1

3.32 Databases

COMPENDEX	-	http://www.engineeringvillage2.org
Inorganic Crystal Structure Database	-	http://icsdweb.fiz-karlsruhe.de/index.php
INSPEC	-	http://www.engineeringvillage2.org
J-Gate	-	http://j-gate.informindia.co.in
JCCC	-	http://jccc-indest.informindia.co.in/
MathSciNet	-	http://www.ams.org/mathscinet
PsycInfo	-	http://web.ebscohost.com/ehost/search
Scifinder Scholar	-	http://web.scifinder/scholar/index.html
SCOPUS	-	http://www.scopus.com
Web of Science	-	http://isiknowledge.com/

3.33 Multimedia (intranet, CD-net)

Chemical Abstracts – 12th & 13th Collective Index
Chemical Abstracts on CD (2003-07)
COMPENDEX (1991-2001)
Current Contents on Disc (1999-2001)
Dissertation Abstracts

Index to Scientific & Technical Proceedings (1990-2000)
Indian Patents
Indian Standards
INSPEC (1991 – 2001)
Power Diffraction
CDs received along with books are mirrored on CDH CD-MIRROR server and is accessible on Windows machines at
http://cdmirror.library.iitb.ac.in/

3.34 Addition of New E-Resources

Central Library added the following resources during the year :

1. ACS Legacy Archives (23 journals 1879-1995)

2. Duke Mathematical Journal (Volume 1 – 100)

3. AAPG Datapages (AAPG publications, SEPM Journal, GCAGS Transactions, and Journal of Petroleum Geology)

4. BioOne (82 high impact bioscience journals and 1 book)

5. Journal of Geophysical Research (7 journals)

6. John Wiley Journals (Additional 90 journals)

7. Referex (a collection of about 450 e-books)

3.4 Electronic Theses & Dissertations   (http://etd.library.iitb.ac.in)

Central Library is probably the first in the country to support electronic submission of theses and dissertations by the postgraduate and doctoral students. It maintains a full-text database of over 3632 items submitted since 1999-2000 on Intranet. During the year, 586 M. Tech. Dissertations and 133 Ph. D. Theses were submitted on line. The library has also developed a database (providing bibliographic details and abstract) using open source software, GSDL of all the Masters Dissertations and Ph. D. Theses submitted since 1999 and 1965, respectively. This database containing over 3500 records is accessible through the library homepage.

3.5 Institutional Archive

Central Library has installed an open source software, DSpace to set up an archive of all publications brought out by the faculty and the institute. The archive, accessible initially on the Intranet facilitates on line submission of the publications by their authors which are permissible within the copyright regulations. The archive, it is hoped will evolve in to a major database of all publications produced by the IIT Bombay community and will be available on the Internet through the library homepage.   It is envisaged that the electronic theses and dissertations currently submitted on a different platform will be also be migrated to the DSpace.

4. Library Services

Central Library offers package of high quality, user focused services to support the research, teaching and learning endeavors of faculty, students and staff. It aims to provide easy access to the right information in a service-rich environment to all its users.

4.1 Reference, Consultation & Circulation

Reference service helps users to make full use of library resources and services. It provides necessary assistance to users in locating information or document of their choice. The Library issued 91,589 books and other documents to its members during the year. In addition to members, 2663 visitors including students, research scholars, engineers and faculty members

from several academic and R&D institutions used the library. It is open from 0900 to 2300 hrs on all working days and from 1000 to 1700 hrs on holidays (except three national holidays) when it operates with skeletal staff. Library remains open till 0100 hrs on all days during examinations.

4.2 Membership

The membership of the library for different categories of users stands as mentioned below:

Category of membership	*Number*
Students and research scholars	5463
Faculty	439
Officers and other staff	900
Retired faculty members	128
Professors Emeritus / Scientists	34
Alumni Members	350
Corporate Members	113
Educational Institute Members	55
Total	7482

4.3 Sharing of Resource and Partnerships

The library maintains excellent relations with libraries of IITs, BARC, NITIE, NCST, IISc, IIG, TIFR, TISS and UICT for exchange of books, journals, photocopies and videocassettes for the mutual benefit of the users. It loaned 44 books and borrowed 11 books to / from other libraries. It also supplied 367 pages of photocopies to other libraries and received 193 pages of photocopies for our own users.

4.4 Photocopying service

Photocopying service is one of important services offered by the library. It provided 9679 pages of photocopies to the faculty of the institute free of charge and 2221 pages to individuals and organizations on payment. About 40 organizations maintain Deposit Account with the library to obtain photocopies quickly. A private operator also offers photocopying services to users. The library also procured 448 pages of photocopies on payment from other libraries to meet the requirements of our users.

4.5 Book Bank (TLL and BC Collections)

The Book Bank comprising of Technology Lending Library and BC Collection helps students belonging to Scheduled Castes, Scheduled Tribes and economically weaker sections of the society. The bank mainly consists of the prescribed text books for undergraduate courses and loans books to these students for full semester. During the year, 643 students availed this facility and borrowed 2860 books from this collection.

4.6 Information Alert Services

The library offered the following current awareness services to alert users about the latest information of their interest:

List of Additions, new arrivals
Lest-you-miss
News items display
Useful articles Display
Faculty publications display
Display of Scholarship and fellowship information
Display of Forthcoming conferences, other national and international events, employment opportunities, and prospectus of foreign universities

5. Users Education, Conferences, Seminars

The library participates actively in the orientations programs organized for new students and makes presentations about our facilities, resources and services to new students. It makes good use of various mailing lists, and news groups to interact and communicate with the user community, to inform them about the new activities and services of library, and to obtain their comments and suggestions. The library also provides one-on-one training to users desiring to learn more about any service or how to use a particular database or resource. Our library brochure, "Know Your Library" is under revision and a new colourful brochure is being brought out for the benefit of our users as well as visitors to the library.

The library organized a three-days Workshop on E-Resource and IPR Issues in June 2006 in collaboration with the INDEST Consortium, New Delhi. Over 60 librarians and information professionals from different parts of the country participated in the workshop. The workshop had presentations / lectures by well known experts on Library 2.0 : emerging ICT trends, INDEST Consortium : present and future, Intellectual Property in the Global Economy, Access to Knowledge : implications of a strong Copyright regime, and RFID Technology.

Central Library also organized a half day 'Seminar on Innovative Services for Special Libraries' in collaboration with Max Muller Bhawan, Mumbai which was attended by 50 librarians. Dr. Rafael Ball, Head of the Central Library, Research Centre Julich, Germany was the main speaker.

6. Staff News

Central Library is a reflection of the talent, energy and willingness of the officers and staff who have a shared commitment to providing the best possible service to the world class community of faculty, students and staff of IIT Bombay. Beside performing their jobs in the library, many of them undertake academic assignments to act as a faculty and research guide, deliver lectures, present papers and participate in national and international conferences and workshops. A number of officers and staff also participated in the training programs organized by the institute. A brief description of some of the important activities is given below :

1. Dr D. N. Phadke, Assistant Librarian (SG) wrote a book in Marathi "Granthalaya Sanganaikikaran aani Adhunikkikaran" published by Universal Prakashan, Pune, 2007. He also acted as a Research Guide for M. Phil and Ph. D. in Library and Information of YCM Open University, Nasik and Alagappa University, Karaikudi, Tamil Nadu.
2. Mr M N Jadhav, Assistant Librarian participated in 9th International Symposium on Electronic Theses and Dissertations, Quebec City, Canada, 7-10 June 2006 and presented a paper, "Enhancing Digital Repository of Scholarly Publications at Indian Institutes of Technology".
3. Ms Shobha Kulkarni, Assistant Librarian was invited to deliver talks on "Application of bibliographic formats for Digital Library" in Refresher Course for College/ University Librarians and Teachers in Library Science, Bombay University, February 2007.
4. Dr H.S. Waydande, Assistant Librarian (SS) joined as faculty at the Shivaji University, Kolhapur .
5. Mr D. Jotwani, Institute Librarian was invited to present a paper on "National Library, Kolkata vis-a-vis National Medical Library : Need for coordination and future policy building **in** the National Conference on National Library as an Intellectual Resource : Challenges and prospects, November 2006. He was also invited to deliver following talks :

1. Central Library : the knowledge hub of the IIT Bombay. **In** National Conference on Information Management in Digital Libraries, IIT Kharagpur, 2-4 August 2006.
2. Best practices at the Central Library, IIT Bombay. **In** 4th INDEST Workshop and Annual Meet, IIT Delhi, December 2006.
3. Digital Library Initiatives at the Central Library, IIT Bombay. **In** Refresher Course for Colleges/ University Librarians and Teachers in Library Science, Bombay University, February 2007.
4. Current Trends in ICT applications to Libraries. Golden Jubilee Lecture, Department of Library and Information Science, Karnatak University, Dharwad, 24 March 2007.

Mr. D. S. Main and Mr. Rajesh Sarmalkar, Library Staff, were awarded Certificate of Appreciation for their meritorious service by the Director on the Republic Day. Mr. Sarmalkar also participated in the Inter IIT Sports Tournament.

7. Infrastructure

The limitations of the physical space continue to present operational challenge to the library staff, as well as to students and faculty in their use of the library resources and services. Besides, the existing library building is old and needs timely repairs and regular face lift to maintain its utility and conduciveness. A proposal for the new State-of-the-Art library building has been submitted to the Director / Convener, Golden Jubilee Celebrations and deserves serious and urgent consideration.