INTERDISCIPLINARY RESEARCH PROGRAMME IN TRANSPORTATION RESEARCH AND INJURY PREVENTION (TRIPP)

TRIPP is an interdisciplinary programme focussing on the reduction of adverse health effects of road transport. TRIPP attempts to integrate all issues concerned with transportation in order to promote safety, cleaner air, and energy conservation. The Programme is recognized as a Centre of Excellence by the Ministry of Urban Development, Govt. of India. It is recognized as a WHO Collaborating Centre for research and training in safety technology. It is also recognized as a Centre of Excellence for Research on Future Urban Transport by the Volvo Research Foundation.

The programme has associated faculty from different departments/centres of the institute, viz., Applied Mechanics, Biomedical Engineering, Civil Engineering, Computer Science and Engineering, Mechanical Engineering, Humanities and Social Sciences, Mathematics. Experts from other organizations and hospitals in Delhi are also associated with TRIPP. TRIPP organises short-term courses and workshops on road safety and transport regularly every year.

The TRIPP research areas are: Transportation planning and traffic flow analysis for optimising mobility and minimising accidents and pollution; Vehicle crash modelling, road safety studies, safer vehicle and helmet design; Studies related to public transport, traffic management, road design and land use planning; Epidemilogy of factors associated with road traffic injuries, injury analysis and pre hospital care; Studies on vehicle technology and engines to minimise fuel consumption and pollution. TRIPP also organises short-term courses and workshops on road safety and transport issues regulary.

ASSOCIATED FACULTY MEMBERS

Prof. GeetamTiwari, Civil Engineering, -- Coordinator
Prof. Puneet Mahajan, Applied Mechanics
Prof. Sanjeev Sanghi, Applied Mechanics
Prof. A. R. Ray, CBME
Prof. A. K. Gosain,Civil Engineering
Dr. Gazala Habib, Civil Engineering
Dr. K. N. Jha, Civil Engineering
Dr. R. R. Kalaga, Civil Engineering

Prof. S. Banerjee,Computer Science and Engineering
Prof. Anoop Chawla, Mechanical Engineering
Dr. Nomesh Bolia, Mechanical Engineering
Prof. S. R. Kale, Mechanical Engineering,
Prof. Sudipto Mukherjee, Mechanical Engineering
Dr. Vipul Jain, Mechanical Engineering
Dr. N. Chatterjee, Mathematics
Prof. Ambuj Sagar, Humanities and Social Sciences
Prof. V. Upadhyay, Humanities and Social Sciences

OPTO-ELECTRONICS AND OPTICAL COMMUNICATION RESEARCH PROGRAMME

The programme is focused for research in the field of Fibre Optics and Optical Communication. Main participating departments/centres are Physics, Electrical Engineering, IDDC and CARE. This programme has received fundings from the Government agencies like MHRD, DST, DIT (formerly DoE), and DoT. In addition, R&D work has also attracted considerable international collaboration from universities in UK, France and National Institute of Standards and Technology in USA. The development work has led to commercialisation of a fibre optic educational kit and an erbium doped fiber amplifier.

The programme carries research in the following areas: analytical and numerical modelling of the propagation characteristics of optical fibres and integrated optical waveguides, design and simulation of novel in-line fibre optic components such as polarizers, directional couplers, and mode filters, characterisation of birefringent fibres, development of optical fibre-based sensors, nonlinear interactions in fibre and integrated optical waveguides, Optical Amplifier, Coherent optical communication, Optical Networks, QoS issues of WDM Networks, SONET / SDH, fiber in Access Networks, Erbium Doped Fibre Amplifiers (EDFA), Raman Fiber Amplifiers, Dispersion Compensating Fibres (DCF), Fibre Bragg Gratings (FBG), fibre optic sensors for civil engineering structures, photonic band gap fibres, free space optical systems, OCDMA systems, etc.

INTERDISCIPLINARY M.DES/M.TECH. PROGRAMMES

Besides a number of regular courses that are offered at the postgraduate level by the academic departments/ centres, the Institute offers Interdisciplinary M.Tech. and one M.Des. programme which are managed by the Programme Executive Committees and Programme Advisory Committees that are constituted by nominating faculty from the concerned departments and centres. Each programme is looked after by the Programme Coordinator who is appointed by the Director.

MASTERS OF DESIGN PROGRAMME

The M. Des. programme caters to the requirement of industry for innovators and designers capable of creating high quality design of products for competitive markets. It is open only to graduates in Engineering and Architecture. The programme is of two years duration, and admission to the eprogramme is through CEED. It involves extensive studio work with hands on practice and is a project based, industry and consumer oriented programme. The thesis projects are often supported by the industry and there is close interface with the industry throughout the programme of study. The programme emphasizes development of free hand conceptualization skills, CAD modeling skills on mid level platforms and above all design thinking skills and detailing over a diverse range of products.

INTERDISCIPLINARY M.TECH. PROGRAMMES

The institute recognises and actively supports academic activities jointly conducted by faculty across the departments and centres. Such activities encourage teaching, research and industry/professional interactions, these are listed below.The Interdisciplinary Post Graduate programmes are in the following specializations:

Computer Applications: The programme is offered jointly by the faculty of three departments, viz., mathematics, computer science and engineering, and electrical engineering. Faculty from department of applied mechanics, mechanical engineering and CARE and CAS also participate. The curriculum includes courses on data structure, computer optimization, numerical simulation, DBMS, and scientific software amongst others

Energy Studies: This programmes introduces students from different backgrounds to various aspects of energy, sources, fuels, energy conversion and energy systems amongst others. Commercial and non-commercial energy sources are covered.

Industrial Tribology and Maintenance Engineering: Various basic and applied aspects of tribology, including wear and maintenance engineering are covered in this programme. Students are introduced to diagnostic maintenance, reliability, availability and maintainability engineering as well as failure analysis.

Instrument Technology: This programme includes students to various instruments, electronic techniques for signal conditioning and instrument design. The electives cover a wide range of topics in instrumentation, electrical engineering, mechanical engineering and physics.

Opto-Electronics and Optical Communication: This programme is jointly offered by physics and electrical engineering departments. The courses cover a wide variety of basic and applied courses in fibre optics, optical-electronics and digital communication.

Polymer Science and Technology: Faculty from centre for polymer science and technology, and textile, mechanical engineering and chemical engineering are participants in this programme. The focus is on polymer chemistry, physics, processing, and engineering applications.

VLSI Design Tools and Technology: This programme is taught by the faculty of computer science and engineering, electrical engineering departments and CARE. The coursework includes courses on MOS, VLSI and VLSI design and VLSI system. The students gain proficiency in the use of state-of-art tools in VLSI design. The programme is largely supported by industries engaged in VLSI design.

Telecommunication Technology for Management: A set of courses in digital communication and systems, wireless communication and telecommunication management form the core of this programme. Faculty of electrical engineering and management studies departments participate in the teaching of this programme.

Interdisciplinary part time M. Tech.(evening) programme in energy and environmental management: This programme is offered to professionals in industry and government and it covers courses in conventional and non-conventional sources of energy and their environmental impact. The classes are conducted in the evenings.

7. MAJOR CENTRAL FACILITIES

The Institute has following central facilities for smooth functioning of Academics, Research and Outreach.

- Industrial research and development (unit)
- Central workshop
- Training and placement (unit)
- Institute libraries
- Other Facilities

7.1 INDUSTRIAL RESEARCH AND DEVELOPMENT (UNIT)

The Indian Institute of Technology Delhi lays a strong emphasis on the sponsored research and Industrial interaction. The Industrial Research & Development (IRD) Unit was specifically set up in the institute to provide specialized administrative and managerial support for the operation of Sponsored Research Projects, Consultancy jobs and other related research and development activities. Over the years, the Institute has set up many modern laboratories and supporting infrastructure through these projects.

The Institute has given due emphasis to jobs of varied nature like trouble shooting, product and process development, design checks and investigation of problems of direct relevance to the needs of the country through time-bound Sponsored Research Projects and Consultancy Projects. During April 1, 2013 to March 31, 2014, 150 new sponsored research projects with a funding of Rs. 68.65 crores were undertaken. In addition, 430 consultancy jobs worth Rs. 27.31 crores were also undertaken.

The Institute is actively involved in collaborative programmes with national and international organization/ universities and this unit manages these projects.

IRD has several schemes to encourage research and development among students:

- Summer Undergraduate Research Award (SURA)
- One-time grant of Rupees One Lac to New faculty members who join the Institute
- Assistantships/Fellowships to 5th year Ph.D. Students
- Travel grant under "Research Scholar Travel Award" (RSTA)
- Open House
- Chair Professorships

7.2 CENTRAL WORKSHOP

Central Workshop is one of the pivoting units of the institute which teaches conceptually "how" a product comes to its present form by way of imparting core manufacturing education to all the first year students of IIT Delhi. It also provides product manufacturing support to entire institute community in general and undergraduate students in particular. More than 900 undergraduate students in their first year acquire hands-on manufacturing skills in this Central Workshop. The Central workshop not only introduces art and science of manufacturing but also infuses confidence to take up product design and manufacturing activities in future. Central Workshop is also a place where B.Tech students of Mechanical Engineering and B.Tech students of Production & Industrial Engineering acquire training and knowledge in specialized areas of manufacturing like Metal Casting, Metal Forming, Metal Machining, Welding & Joining, Metal Forging Woodworking, CNC programming and 3D Printing, Plastic Product manufacturing etc. M.Tech. students of Production group also use central workshop facilities for their practical classes in various courses as well as for project and research work.

The central workshop is fully equipped with latest power tools, equipments and facilities in all areas of manufacturing technologies. It also caters to the fabrication needs of students doing product design & manufacturing courses, minor projects, B.Tech, project, Masters thesis and Doctoral research. Large numbers of students use this facility to build products and compete at national and international level product building competitions like Formula student car, mini Baja, Robocon etc. The facility can also be used by external agencies for their manufacturing and training needs during the vacation period.

Central workshop has undertaken efforts to reorganize, modernized and prepare it for continuously changing global manufacturing scenario. Efforts are also on to prepare students for a broader view of manufacturing which involves planning and deploying optimum ways to transformation of raw material into goods by integration of people, capital, processes, systems and enterprises to deliver products of value to the society.

A new shop 'CNC Learning' is created in 2013-14 to imbibe product realization through computer generated geometries. A rapid prototype model can also be visualized by use of state of art 3D Printing technology in this new shop of Central Workshop.

7.3 TRAINING AND PLACEMENT UNIT

The Training and Placement unit actively interacts with industrial, management and research organisations in the country with the dual aim of ensuring that the students are given adequate technical exposure / industrial training during their pre-final year and subsequently enabling them to get employment in organisations.

Training

Pre-final year students of B.Tech., Dual Degree, and Integrated Programmes, having minimum of 90 earned credits at the end of 5th semester, are required to undergo 50 working days' mandatory practical training during summer vacations following the 6th semester in partial fulfilment of their degree requirements. The Training and Placement unit facilitates the placement of students in Industry and Research Laboratories for this purpose.

Placement

An active and dynamic programme of securing jobs for students graduating from the Institute is initiated by inviting industries of repute and other organisations to conduct interviews. Wide publicity of the academic and extra-curricular activities is given to the organisations.

Organisations that have hitherto neither trained nor placed our students are contacted actively.

Support Services

The Training and Placement unit organizes lectures for students to supplement the above information and special talks. workshops are organized on various subjects such as: career counselling, interview techniques and modes of communication. The unit remains in touch with the Alumni Association of IIT Delhi to obtain their valuable advice and guidance for the students.

7.4 INSTITUTE LIBRARIES

The IIT Delhi Library System comprises of a Central Library and 18 departmental libraries that collectively support the teaching, research and extension programmes of the Institute. All students, faculty and employees of the Institute are entitled to make use of the Library facilities. The Alumni of the Institute are also entitled to Library services provided they are members of the Institute's Alumni Association. Similarly, industrial establishments can avail the Library services on taking corporate membership of the Library. Library consultation facilities are extended to faculty, students of outside organizations and the wards of IIT faculty and staff on their request. Retired teaching and non-teaching staff members can also avail Library facilities. The Library has over 9400 registered members.

LIBRARY HOURS

The Library remains open throughout the year except on six days, namely; Republic Day, Independence Day, Dussehra, Diwali, Holi, Mahatma Gandhi's Birthday and any other holiday declared as a special holiday. It remains open 24 Hrs. during semester exams; from 8.45 A.M. to 12.00 Mid-night from Monday through Friday and from 9.45 A.M. to 6.30 P.M. on Saturdays, Sundays and Public Holidays.

LIBRARY RESOURCES

Collection

The Central Library, IIT Delhi has a strong collection pertaining to physical sciences, engineering and technology, biotechnology, computer and information technology, social sciences and management.

Video Library

The Library is equipped with video viewing facility and has a collection of more than 1,800 CDs and kept in the Computer Application Division of the Central Library for viewing.

Reference Collection

The Library maintains a separate reference collection consisting of encyclopedias, dictionaries, handbooks, technical data, almanacs, atlases, bibliographies, etc.

Hindi Collection

The Central Library has built up a good collection of books in Hindi. Books in Hindi include books on various subjects being taught and researched at the Institute as well as books on literature in Hindi. Books in Hindi are prominently kept near the reference area in the Library to promote its usage. To increase the use of Rajbhasha Hindi, Central library offers borrowing facility of one extra Hindi Book to all its members apart from their entitlement.

ELECTRONIC JOURNALS AND ONLINE BIBLIOGRAPHIC DATABASES

The Library subscribes to 618 current journals (online) which are also accessible online from the publishers' web site. Links to these electronic journals are available through the Library web site as well through the Library Web OPAC. More than 1,05,765 bound volumes of journals are available in print form.

Besides, the Institute has access to over 10,000 full-text electronic journals and 6 bibliographic databases from a number of publishers and aggregators through the INDEST-AICTE Consortium. The INDEST-AICTE Web Site (http://paniit.iitd.ac.in/indest) hosts search and browse interface to locate these journals and their URLs. Details of resources made accessible to IIT Delhi through the Consortium along with their URLs are given in "Library Reference Guide" and on the Library & INDEST websites. Tutorials on e-resources accessible through the INDEST-AICTE Consortium are available on the INDEST-AICTE Web Site and are also published in "Compendium for the Members of the INDEST-AICTE Consortium".

Besides access to current e-journals; the Library has also purchased backfiles of electronic journals from a number of publishers / aggregators from their volume one onwards on "one-time payment and perpetual access basis". The backfies purchased by the Library includes: Elsevier's Science Direct (24 subject collections, 1186 e-journals), Wiley InterScience, (66 Core title and 262 custom collection, 27 e-journals), Springer's Open Journal Archives (11 subject collections, 812 e-journals), JSTOR (7 subject collections, 1548 journals) and Project Muse (296 Journals).

E-RESOURCES AVAIALBLE THROUGH CENTRAL LIBRARY

- Online Miscellaneous Journals
- Lecture Notes in Computer Science, Mathematics and Physics (Vol.1/1969-Vol. 476/1996)
- ACS Archives
- American Mathematical Society Journals
- American Meteorological Society Journals and Archives
- ASME Digital and Archives

- Availability of Hindi on the Internet
- Cambridge University Press HSS and S&T package
- E-Books from Textbooks Section
- EBSCO Textile & Technology Complete
- I.C.E. and their Archives
- Imech E Publications Current
- INFORMS Current Journals
- IoP Science and their Archival collection
- ISI Emerging Markets [Tutorial]
- JSTOR [Tutorial]
- Oxford Journals on Mathematics, Life Science, Humanities and Social Science
- Project MUSE Journals
- RSC Journals Archive Titles (1841 - 2004)
- Sage HSS & Management Journals and their Archives
- Science (Current and Archives)
- SIAM Journals and their Archives
- Taylor & Francis, Current Core Science & Technology Titles+ Chemistry Backfiles
- Wiley Journal Titles
- World Scientific Publication Mathematics
- World Textiles

E-RESOURCES AVAILABLE THROUGH INDEST-AICTE CONSORTIUM

- ABI / Inform Complete
- ACM Digital Library
- AIP/APS Journals
- ASCE Journals
- ASME Journals (+ A M R)
- ASTM Standards & Digital Library
- Capitaline
- EBSCO Databases
- Elsevier's Science Direct
- Emerald Full-text
- Euromonitor (GMID)

- IEEE / IEE Library Online (IEL)
- INSIGHT
- Nature
- Optical Society of America (OSA)
- ProQuest Science
- Springer Link
- MathSciNet

ELECTRONIC BOOKS

The Institute has access to electronic books from the following publishers / aggregators:

- Elsevier Book Series on Chemistry, Business, Management & Economics, Life Sciences and Methods in Enzymology through the Science Direct (http://www.sciencedirect.com)
- Springer's Electronic Books (about 100 e-books) (http://ebooks.springerlink.com)
- Wiley InterScience Electronic Books (about 100 e-books)
- E-brary (29368 books)
- Myilibrary
- E-Text Books (35 books)

COMPUTER AND NETWORKING FACILITIES

The Library has its own sub-LAN, which, in turn, is connected to the Campus LAN. It has over 100 PCs and eight servers spread over three floors of the Library.

The Library is a part of fibre optic-based campus-LAN. Of 100 PCs in the Library, 70 Internet-enabled PCs are exclusively devoted for the Library users. As a member of the DELNET, the users can access databases offered by the DELNET. The Library Home Page provides a link to the DELNET database.

COMPUTERIZATION OF IN-HOUSE ACTIVITIES

All in-house activities in the Library including Acquisition, Cataloguing, Circulation and Serials Control are fully computerized using Libsys Software Package. The Online Public Access Catalogue (OPAC) of the Library is operational both on Intranet and Internet. It can be accessed online to search more than 1,75,000 bibliographic records, available in the Library

database through a web-based search interface or with a window client of the Libsys on Intranet as well as on Internet. The editing and updation activities are done on regular basis. Besides, the Central Library has two in-house databases for specialized collections. These databases include: Database of Ph.D. theses submitted to the IIT Delhi and Database of research articles by the faculty and researchers of the Institute.

The Library uses bar-code technology for computerized circulation system. Every document in the Library (except reference sources and bound volumes of journals) bear a bar-code tag that facilitates identification of document and the borrower in the circulation process. Similarly, all categories of users have a bar-coded patron cards. The Library has developed in-house facility for bar coding of books and patron cards.

RFID IMPLMENTATION IN THE LIBRARY

The Library also has the Radio Frequescy IDentification (RFID) based system. It is the best automated library automation system used world wide and is an effective way of managing collections of the library and providing enhanced services to the users having benefits like: self check-out of books, self-check-in (book drop), to control theft, to find misplaced reading material, sorting, inventory accuracy, stock verification procedures, security control, video surveillance, people counter, Smart Card issuance, etc. It is an automatic data capture technology that uses tiny microchips and miniature antennas affixed to documents. RFID plays a vital role in redefining the library processes to make everyone's job easier right from the users to library staff.

Database of Research Articles by the Faculty and Researchers of IIT Delhi

The Library maintains a web-enabled database of research articles published by the faculty and researchers of IIT Delhi. The database consists over 17,000 research articles and their abstracts that appeared in international peer-reviewed journals indexed by Science Citation Index/SCOPUS. The database is being updated regularly for new records that are added to the Science Citation Index/SCOPUS.

LIBRARY SERVICES AND FACILITIES

Reader's Assistance

The Library provides assistance to its users ranging from location of a book to finding specific information required by a user. A suggestion book is maintained with Incharge, Reader's Services where the users of the Library can suggest measures for improvements in its facilities and services.
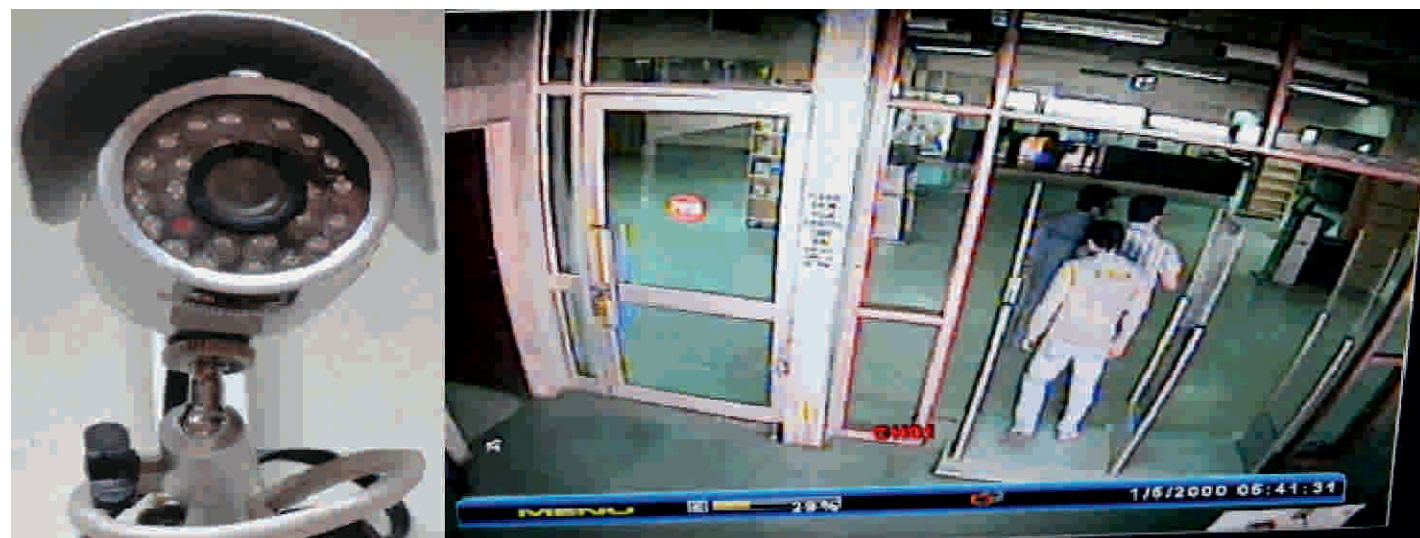
Circulation of Books and Library Membership

The Library members, according to their borrowing category can borrow stipulated number of books at a time against their bar-coded patron card. During the period under report, about 60,000 volumes were borrowed by the members of the Library from general collection.

In addition, consultation facilities were extended to around 5,000 users including students, research scholars and faculty members belonging to other academic institutions. More than Rs. 1.5 lakh were earned from the corporate membership fee.

Inter Library Loan (ILL) and Resource Sharing Facility

The Library arranges books and journals from other libraries in Delhi on Inter Library Loan (ILL). Photocopies of research articles are also arranged from other IITs under a resource sharing agreement signed by all IITs. The Library also facilitates Demand based procurement of research publications, photocopies of research articles, etc. from other IITs and institutions in Delhi as well as from other parts of India on reciprocal basis as detailed below from last year data:

Journal articles/other publications received from other sources in Delhi and outside Delhi	102
Publications lent to other libraries on their request (including Associate Members)	153

Video Surveillance integrated with the RFID based library system

Database of Ph.D. Theses Submitted to the IIT Delhi

The library has in-house design and developed PhD theses database. Contains approximately 4100 bibliographic records of Ph.D theses submitted to the IIT Delhi. In the year 1966 the first Ph.D has awarded after that number of Ph.D research has been continuously increseing every year till dated. The Database developed and maintained in MySQL Database and programmed using PHP language to facilitate access on the Intranet and Internet.

Photocopying Facility

The Library provides photocopying facility within its premises through an external vendor on payment basis.

Book Bank Facilities

The Book Bank holds multiple copies of selected textbooks for making them available to the students for the entire period of a semester. Up to 6 books can be reserved and issued per semester by the undergraduate students and the Library collects up to a maximum of 10% of the cost per book as rental charges or Rs. 20 per book whichever is less. However, for SC/ST Students, an amount of Rs. 75 is waived off from the total rental value. The rental charges for Book Bank are deposited in Canara bank, after that only books are issued and given to the students. During the period under report, approximately 884 students (including SC/ST students) availed the benefit of book bank scheme.

Text Books Facilities (Print and Online)

The text books are most useful collection of the library especially for course/syllabus related reading. The section has approximately 10,000 syllabus related text books. The books for this section are purchased generally on the recommendations from different faculty members through the concerned Heads of the Department. The timings for issuing the books from the Text Book Section are from 2 PM to 5 PM during Monday to Friday and the same are issued for overnight only (for one day). The books of this section may be returned back during 9 AM to 1 PM only. A maximum total of 2 of books are issued from the section at a time. The Central Library also has 35 e-textbooks for undergraduate students and the same are accessible in the campus through library website - http://library.iitd.ac.in/index.php/e-resourc/e-textbooks

Theses Consultation Facilities

Central Library receives all the Ph.D. Theses awarded by IIT Delhi in Hard copy along with their CDs. Print copies of theses are housed in Text Book & Book Bank Section located at the ground floor of the library for consultation purpose only. The abstracts of theses are made available through library Online Public Access Catalog (OPAC) -

http://libcat.iitd.ac.in:8080/webopac_old/html and also through another interface especially designed for searching the theses at: http://library.iitd.ac.in/thesis

WEB-BASED COMPUTERIZED SERVICES FROM THE LIBRARY

The Central Library offers the following services to the Institute:

Network-based CD ROM Search Services

The Library has complete collection of Indian Standards and ASTM Standards on CD ROM that is available on the Campus network. The resources can be accessed on the Intranet at the URLs given below or through library website at http://library.iitd.ac.in:

- Indian Standards   http://10.116.2.102/bis/
- ASTM Standards   http://10.116.2.102/astm/
- IEC Standards   http://10.116.2.102/iec/

Institutional Repository at IIT Delhi (http://eprint.iitd.ac.in/dspace/)

The Eprints @ IIT Delhi has been set-up to host full-text of research publications of faculty and researchers of the IIT Delhi using Dspace, an open source Digital Library software developed by the Massachusetts Institute of Technology. The Dspace supports the Open Archives Initiative's Protocol for Metadata Harvesting (OAI-PMH), an internationally recognized protocol and interoperability standard. The Eprints@IIT Delhi provides a platform for faculty and researchers to deposit, reuse and share their research publications. The repository also has the ability to capture, index, store, disseminate and preserve digital materials created in any part of the Institute. Faculty and researchers can register themselves with the digital repository and submit their pre-prints (pre-refereed version of an article), post-prints (post-refereed final version) and publisher PDFs (if allowed by the publisher). The repository has around 2,200 full-text research articles.

INDEST-AICTE CONSORTIUM

The "Indian National Digital Library in Engineering Sciences and Technology (INDEST) Consortium" was set-up in 2003 by the Ministry of Human Resource Development (MHRD) on the recommendation of an Expert Group appointed by the Ministry. The IIT Delhi has been designated as the Consortium Headquarters to coordinate its activities. The Consortium enrolls engineering and technological institutions as its members and subscribes to electronic resources for them at discounted rates of subscription and favourable terms and conditions. The Ministry provides funds required for subscription to electronic resources for 65 centrally-funded Government institutions including IITs, IISc Bangalore, NITs, IIITs, IIMs and few other Institutions that are considered as core members of the Consortium. The benefit of consortia-based subscription to electronic resources is not confined to its core members but is also extended to all educational institutions under its open-ended proposition. 60 Govt. / Govt.-aided engineering colleges are provided access to selected electronic resources with financial support from the AICTE and over 130 engineering colleges and institutions have joined the Consortium under its self-supported category. Consortium was re-named as INDEST-AICTE Consortium in December 2005 with the AICTE playing a pivotal role in enrolling its approved engineering colleges and institutions as members of the Consortium for selected e-resources at much lower rates of subscription. Presently, Prof. R.K. Shevgaonkar, Director, IIT Delhi is the Chairman of the National Steering Committee of the INDEST-AICTE Consortium, which formulates guidelines for the Consortium and Prof. B.D. Gupta is National Coordinator, INDEST-AICTE Consortium.

7.5 OTHER FACILITIES

The following Central Facilities are available to the institute community. Services are available on payment basis and are available to all faculty and students as well as for outside individuals and organizations.

Facility

Glass Blowing Workshop	NMR	SAM/ESCA
TEM	SEM	ICPE Spectroscopic
GC/MS	Mechanical Fabrication	Liquid Nitrogen Facility

ADMINISTRATIVE STRUCTURE

THE VISITOR
Shri Pranab Mukherjee (Hon'ble President of India)

CHAIRMAN, BOARD OF GOVERNORS
Dr. Vijay P. Bhatkar

DIRECTOR
Prof. R.K. Shevgaonkar

DEPUTY DIRECTORS
Prof. S.N. Singh (Operations) and Prof. S.K. Koul (Strategy and Planning)

Deans
Prof. Anurag Sharma : Academics
Prof. S.G. Deshmukh : Faculty
Prof. Suneet Tuli : Research and Development
Prof. Mukesh Khare : Alumni Affairs & Intl. Programmes
Prof. S.K. Gupta : Student Affairs
Prof. K.S. Rao : Infrastructure

Associate Deans
Prof. M.R. Ravi : Curriculum
Prof. T.C. Kandpal : PG Research
Prof. Naresh Bhatnagar : Research & Development
Prof. Aditya Mittal : Students Events
Prof. P.M.V. Subba Rao : Hostel Management
Prof. (Ms.) Manju Mohan : Student Welfare
Prof. Neeraj Kumar Jha : Infrastructure
Prof. B.K. Panigrahi : Infrastructure

REGISTRAR
Dr. Rakesh Kumar

THE SENATE

R.K. Shevgaonkar, Chairman	P.R. Bijwe	A. Ganguly
(Director)	Jayashree Bijwe (Ms.)	A.K. Ganguli
Deputy Directors	V.S. Bisaria	Anup K. Ghosh
S.N. Singh	Ranjan Bose	N.K. Garg
S.K. Koul	Chandra B. (Ms.)	Pramila Goyal (Ms.)
All Professors (or equivalent)	Chandra Shakher	James Gomes
G.P. Agarwal	Charusita Chakravarty (Ms.)	A.K. Gosain
V.K. Agarwal	Devi Chadha (Ms.)	V.R. Gunturi
A.K. Agarwala	B.R. Chahar	Ashok Gupta
Ashwini K. Agarwal	Sudhir Chandra	B.D. Gupta
Suhail Ahmad	N. Chatterjee	Bhuvnesh Gupta
Babu J. Alappat	Ratnamala Chatterjee (Ms.)	Deepti Gupta (Ms.)
R. Algirusamy	R. Chattopadhyay	K. Gupta
Sneh Anand (Ms.)	Santanu Chaudhury	M.P. Gupta
S.K. Atreya	Sujeet Chaudhary	S.K. Gupta (CS&E)
Anshul Kumar	Tapan Kumar Chaudhuri	S.K. Gupta (Ch.E.)
R. Bahl	Veena Chaudhary (Ms.)	Seyed E. Hasnain
M. Balakrishnan	Anoop Chawla	S.M. Ishtiaque
D.K. Bandhopadhyay	H.M. Chawla	K.C. Iyer
S. Banerjee	Apurba Das	A.K. Jain
B.K. Behera	Manoj Datta	P.K. Jain
Bijoy H. Boruah	S. Dharmaraja	S.K. Jain
Ananjan Basu	Viresh Dutta	Sanjeev Jain
S. Basu	S.G. Deshmukh	V.K. Jain
Kanika T. Bhal (Ms.)	Anupam Dewan	Manjeet Jassal (Ms.)
A.N. Bhaskarwar	Chinmoy Sarkar Dey	B. Jayaram
B. Bhattacharjee	J.K. Dutt	Jayadeva
T.S. Bhatti	Anil Jacob Elias	M. Jagadesh Kumar
B. Bhowmik (Ms.)	Naveen Garg	Mangla Joshi (Ms.)
G. Bhuvaneswari (Ms.)	O.P. Gandhi	S.D. Joshi

S.R. Kale
N.C. Kalra
Prem Kumar Kalra
Tara C. Kandpal
Santosh Kapuria
I.N. Kar
Subrat Kar
Ravinder Kaur (Ms.)
S.C. Kaushik
Saroj Kaushik (Ms.)
A.K. Keshari
Rajesh Khanna
Mukesh Khare
S.K. Khare
Neeraj Khare
Veena Koul (Ms.)
Sangeeta Kohli (Ms.)
S. Kundu
Ajit Kumar
Amit Kumar
Arun Kumar (Phy.)
Arun Kumar (CARE)
S. Arun Kumar (CS&E)
N.D. Kurur
Manju Mohan (Ms.)
Alok Madan
Ranjan Kumar Mallik
B.R. Mehta
D.S. Mehta
S.N. Maiti

Shashi Mathur
Maithili Sharan
Saroj Mishra (Ms)
Sukumar Mishra
Prashant Mishra
A.K. Mittal
Aditya Mittal
Sudipto Mukherjee
Ratan Mohan
Sanjiva Prasad
R.B. Nair (Ms)
S.N. Naik
Arvind K. Nema
Sunil Nath
B.S. Panda
Preeti Ranjan Panda
P.S. Pandey
Sunil Pandey (on lien)
Siddharth Pandey
K.K. Pant
Nalin Pant
B.S. Panwar
Shankar Prakriya
Rajesh Prasad
K.R. Rajagopal
A. Ramanan
N.G. Ramesh
A.D. Rao
K.S. Rao
P.M.V. Subba Rao

P. Venkateswara Rao
P.V. Madhusudan Rao
S.C.S. Rao
Anurag Singh Rathore
M.R. Ravi
Anjan Ray
G.B. Reddy
R.S. Rengasamy
P.K. Roychoudhury
Shantanu Roy
Subir Kumar Saha
Ambuj D. Sagar
Sanjeev Sanghi
Sanil V.
Huzur Saran
Anil Kumar Saroha
Santosh Satya (Ms.)
Kushal Sen
P. Senthikumaran
Jagdish T. Sahu
Puneet Mahajan
Sandeep Sen
Ravi Shankar (Chy.)
Ravi Shankar (DMS)
D.T. Shahani
Jagdish T. Shahu
Anurag Sharma
D.K. Sharma
K.G. Sharma
R.P. Sharma
R.K. Sharma

Satyawati Sharma (Ms.)
M.R. Shenoy
Bhim Singh
A.K. Singh
Harpal Singh
Jai Deo Singh
Purnima Singh (Ms.)
S.P. Singh
R.K. Soni
A.K. Srivastava
Pankaj Srivastava
T.R. Sreekrishnan
Sushil
N. Tandon
G.N. Tiwari
Geetam Tiwari (Ms.)
K. Thyagarajan
Amitabha Tripathi
Suneet Tuli
C.A. Tomy
V. Upadhyay
M. Veerachary
S.V. Veeravalli
V.K. Vijay
G.S. Visweswaran
S.S. Yadav

Three Educationists from Outside IIT Delhi
Chandrima Shaha
Raj Senani
Jayati Ghosh

Head, Central Library
Narender Kumar (Librarian)

Head, Central Workshop
P.V. Madhusudan Rao

One of the Wardens
Seema Sharma (Ms.)

Chairman, Grade & Registration (UG&PG)
D. Ravi Kumar

Chairman, Time Table Committee
Joby Joseph

Six Members of Faculty
M.K. Singha
Munawar Shaik
Rakesh Khosa
B.K. Panigrahi
Sagnik Dey
Kolin Paul

Three Alumni Representatives
Pravin Puran
Ashok Kumar
Malti Goel (Ms.)

Four Student Representatives
Maheep Singh
Ravi S. Sudhakar
Isha Rani Gupta (Ms.)
Vedant Saboo

Registrar
Rakesh Kumar
(Secretary)

CHAIRMEN OF THE BOARDS

R.K. Shevgaonkar   Board of Educational Research and Planning, Executive Committee of the Senate, Student Affairs Council

Suneet Tuli   Industrial Research and Development Board

Anurag Sharma   Board for Academic Programmes

PRESIDENTS OF BOARDS FOR STUDENT ACTIVITIES

S.K. Khare   Board for Students Publications

Deepti Gupta (Ms.)   Board of Recreational and Creative Activities

S.K. Gupta   Board of Hostel Management
Dean of Students (ex-officio)

Manju Mohan (Ms.)   Student Teacher Interaction Committee
(Vice Chairman)

Anil Saroha   Board for Sports Activities
(President)

Saroj Kaushik (Ms.)   Board for Students Welfare
(President)

LIBRARY

B.D. Gupta   Professor-in-Charge
(Library)

Librarian
Narender Kumar

Deputy Librarian
J.P. Srivastava

Nabi Hasan

Neeraj Kumar Chaurasia

OTHERS

A.K. Saroha   Advisor, Foreign Students
P.R. Bijwe   Advisor, SC/ST Students
Rajesh Prasad   Coordinator, NSS
Brijesh Lall   Coordinator, NCC
R.K. Varshney   SC/ST Preparatory Course

CHAIRMEN OF ACADEMIC ACTIVITIES

S. Arun Kumar   Computer User's Committee
Head, CSC (ex-officio)

Kushal Sen   JEE Chairman (Advanced-2013)

B.D.Gupta   Advisory Committee for Library (ACL)

K.S. Rao   Chairman (GATE/JAM)

Manju Mohan (Ms.)   Head, Counselling Service (Ex-officio)
President BSW

Santosh Satya(Ms.)   Hindi Cell (Head)

D. Ravi Kumar   Grade & Registration (UG) & (PG)

Joby Joseph   Time Table Committee

COORDINATORS OF INTERDISCIPLINARY PROGRAMMES

M.Tech. Programmes
N. Tandon   Industrial Tribology & Maintenance Engineering
Veena Chaudhary (Ms.)   Polymer Science & Technology
K.A. Subramanyan   Energy Studies / Energy & Environment Management
S. Dharmaraja   Computer Applications
Anshul Kumar   VLSI Design, Tools & Technologies
D.T. Shahani   Instrument Technology

M.Tech. and Research Programmes
V.K. Jain   Opto Electronics & Optical Communications

M.Des. Programme
D.T. Shahani   Industrial Design

Research Programme
Geetam Tiwari (Ms.)   Transportation Research and Injury Prevention Programme (TRIPP)

Others
S.V. Veeravalli   Quality Improvement Programme/ Continuing Education Programme/OCDC

COORDINATORS OF CENTRAL FACILITIES

(Located in Departments/Centres)

N.D. Kurur	NMR
Sujeet Chaudhary	Liquid Nitrogen
Kushal Sen	SEM
Mukesh Chander	SAM/ESCA
Naresh Bhatnagar	Mechanical Fabrication
P. S. Pandey	Glass Blowing Workshops
G.B. Reddy	TEM
B.R. Mehta	AFM+STM (Atomic Force Microscope+Scanning Tunneling Microscope)
B. Jayaram	Supercomputing facility for Bio-informatics and Computational Biology
P.M. Pandey	Rapid Prototyping
A.K. Mittal	Gas Chromatography-Mass Spectrometery (GC-MS)
Saroj Mishra (Ms.)	MALDI/MS Facility
Vikram Kumar	Nanoscale Research Facility

CENTRAL WORKSHOP

Professor and Head   P.V. Madhusudan Rao

CHAIRMEN OF OTHER COMMITTEES

R.K. Shevgaonkar (Director)	Official Language Implementation Committee
Anurag Sharma	Institute Lecture Series Committee
Anurag Sharma	Standing Committee for Convocation 2014
Anurag Sharma	Kendriya Vidyalaya Mangement Committee
Anurag Sharma	Nursery & K.G. School Advisory Committee
K.S. Rao	Commercial Establishments & Licencing Committee
K.S. Rao	Commercial Establishments Monitoring Committee
K.S. Rao	House Allotment Committee
K.S. Rao	Air-conditioning Committee
A.K. Gosain	Committee for House Building and other Advances
G.B. Reddy	Hospital Advisory Committee
R. Bahl	Employees Welfare Committee
S.N. Maiti	Institute Grievance Committee
S.K. Gupta	Managing Committee for Eating Outlets
S.N. Singh	Security Advisory Committee
S.N. Singh	Managing Committee of the Benevolent Fund Scheme
S.N. Singh	Executive Committee of IITD Staff Welfare Scheme

WARDENS OF HOSTELS

Pulak Mohan Pande	Kumaon
Abhijeet Majumdar	Nilgiri
B.K. Panigrahi	Aravali
Seema Sharma (Ms.)	Kailash
Ravi P. Singh	Jwalamukhi
Dipayan Das	Shivalik
M.S. Kulkarni	Karakoram
A.K. Nema	Vindhyachal
P.M.V. Subbarao	Nalanda / IP / New Vindhyachal
Sreedevi U. (Ms.)	Himadri
Sudip Pattanayek	Satpura
Saif K. Mohammed	Zanskar
D. Sundar	Girnar
H. Hirani	Udaigiri

PROFESSOR-IN-CHARGE OF DIFFERENT SECTIONS

Prof.-in-Charge (Planning)	:	Sudipto Mukhejree
Prof.-in-Charge (Guest Houses/Halls)	:	Tapan K. Chaudhari
Prof.-in-Charge (Training & Placement)	:	Shashi Mathur
Prof.-in-Charge (Library)	:	B.D. Gupta
Prof.-in-Charge (EHLS Unit)	:	H.M. Chawla

HINDI CELL

Head   Santosh Satya (Ms.)

STUDENT COUNSELLING SERVICE

Head   Manju Mohan (Ms.)

COUNSELLOR

Rupa Murghai

Rama Raj

ADMINISTRATIVE COMPUTERISATION SUPPORT SERVICE

Head   S. Arun Kumar

CVC

Chief Vigilance Officer   S.S. Yadav

RTI

Public Information Officer   N.C. Chauhan

Appellate Authority   Rakesh Kumar, Registrar

ADMINISTRATION

Rakesh Kumar	Registrar (on deputation)
M.K. Gulati	Deputy Registrar (Accounts)
P. G. Basak	Deputy Registrar (E-I)
N.C. Chauhan	Deputy Registrar (RTI Cell, Estate office & Legal Cell)
K.K. Bhattacharjee	Deputy Registrar (SP Section & R&I)
Vivek Raman	Deputy Registrar (PGS)
Atul Vyas	Deputy Registrar (AA&IP and Director's Office)
Umesh Korade	Deputy Registrar
N. Bhaskar	Assistant Registrar (SS) (Coordination, Planning, Publication and Transport)
V.K. Vashistha	Assistant Registrar (IRD)
Anup Kuksal	Assistant Registrar (IRD A/c)
Ram Parsad	Assistant Registrar (SAS)
Mohd. Shamim	Assistant Registrar (Audit/Accounts)
Ramesh Kumar Thareja	Assistant Registrar (E-II & Manpower Training)
Alan V. Sinate	Assistant Registrar (UGS)
Mukesh Chand	Assistant Registrar
Raj Kumar Gupta	Assistant Registrar (Audit/Accounts)
Satish Narayanan Tiwari	Assistant Registrar
Deb Ranjan Mukherjee	Assistant Registrar
G.K. Taneja	Executive Engineer & Offtg. Institute Engineer
K.M. Vijay Kumar	Executive Engineer
Anuj Gaur	Executive Engineer
Sanjeev Kumar	Executive Engineer (deputation)
Rafat Jamal	Assistant Executive Engineer
V.K. Bharaj	Assistant Executive Engineer
Hitendra Govil	Assistant Executive Engineer
K.P. Mishra	Assistant Executive Engineer
S. Mohan	Assistant Executive Engineer
Prem Kumar	Assistant Executive Engineer
Brahm Prakash	Assistant Executive Engineer
Ashok Kumar	Assistant Executive Engineer
Raju Ram Parihar	Assistant Executive Engineer
Vishal	Assistant Executive Engineer
Rupa Murghai (Ms.)	Student Counsellor
Lily Khosa (Ms)	Medical Officer (SS) & Head, Hospital Services
Renu Misurya (Ms)	Medical Officer (SS)
Ajay Kumar Jain	Medical Officer (SS)
Anila Khosla (Ms)	Medical Officer
M.K. Sagar	Medical Officer (SS)
P.K. Rajesh	Medical Officer (Homeopathic)
Md. Ashafaque Hussain	Medical Officer
Sayed Yasmeen Raunaq	Medical Officer
L. Pangerlemba	Medical Officer
B.N. Yadav	Security Officer (SS)
Deepak Negi	Sports Officer
Anishya Madan (Ms.)	Industrial Liaison Officer

INDIAN INSTITUTE OF TECHNOLOGY DELHI
THE HONOUR CODE

I ………………………….................................……………….……………….., Entry No………………….....................……...
do hereby undertake that as a student at IIT Delhi :

1)   I will not give or receive aid in examinations; that I will not give or receive unpermitted aid in class work, in preparation of reports, or in any other work that is to be used by the instructor as the basis of grading; and

2)   I will do my share and take an active part in seeing to it that others as well as myself uphold the spirit and letter of the Honour Code.

I realise that some examples of misconduct which are regarded as being in violation of the Honour Code include :

☞   Copying from another's examination paper or allowing another to copy from one's own paper;

☞   Unpermitted collaboration;

☞   Plagiarism;

☞   Revising and resubmitting a marked quiz or examination paper for re-grading without the instructor's knowledge and consent;

☞   Giving or receiving unpermitted aid on take home examinations;

☞   Representing as one's own work, the work of another, including information available on the internet;

☞   Giving or receiving aid on an academic assignment under circumstances in which a reasonable person should have known that such aid was not permitted; and

☞   Committing a cyber-offence, such as, breaking passwords and accounts, sharing passwords, electronic copying, planting viruses, etc.

I accept that any act of mine that can be considered to be an Honour Code violation will invite disciplinary action.

Date………………………………..   Student's Signature…..................………………………

                                                                          Name…………………….................…………………………

                                                                          Entry No………………….................…………………………