iit-b

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Annual Report

July 1999 - June 2000

Contents

From the Director's Desk

This Annual Report is special in many ways. This is the First Annual Report of a startup institute, that has no history but wants to create one. **iiit-b** is a new generation institute in every sense. The first batch of students (class of 2000) graduate in the new millennium.

This institute has set a new paradigm in public-private partnership; both the Government and Industry have joined hand to help academia in building this Institution. The institute was born on September 15, 1999 through the special efforts of the Government of Karnataka; this day happens to be the birthday of Sir. M. Visweswaraiah, the pride of an engineer from Karnataka. This is also the day that is celebrated as "Engineers Day" throughout the country. This year was special year for India - Mr. Azim Premji, an Indian, became the third richest individual in the world; this was also the year when the first Indian company got listed on NASDAQ and that happened to be Infosys, the IT company in Bangalore. Indian IT Professionals were in demand in several countries - USA, Germany, Japan and many others. The Dot Com fever reached its peak this year, though it came down in March. The New Economy is asserting itself, though, in our opinion, old Economy will continue to play its dominant role.

iiit-b found unusual ways of starting the institute with full state-of-the-art facilities in a record time of three months. Outsourcing is used extensively for the academic campus as well as to house the students in an innovative manner. By keeping the cost low and the efficiency fairly high **iiit-b** could offer higher quality education at affordable prices without a heavy Government subsidy. By empowering students, **iiit-b** could also create a new standard in using the students to run much of the academic infrastructure. **iiit-b** could run the institute with handful of support staff; though the student size is not very small. By having a large batch of graduate students (150), **iiit-b** has once again set a new standard in graduate education in India.

The startup spirit is very active in the institute. The first company BackEnd Bangalore got incubated in the very first year of operation. We expect to incubate atleast one firm every year.

We have a long way to go. And with active support from sister institutions in Academia, Government and the IT industry, as well as our own faculty colleagues, students, alumni and supporting staff, we hope to take **iiit-b** to greater heights in the years to come.

S. Sadagopan
July 2000

Introduction

Welcome to the new generation academic institution - Indian Institute of Information Technology - Bangalore (**iiit-b**), situated in International Technology Park (ITPL), the focal point of the cyber capital of India. Inspired by other renowned institutes like IITs, IIMs and IISc, **iiit-b** is established with a vision to define new standards in IT education in a unique way combining the freedom of the academia and efficiency of the industry. The institute follows a well designed curriculum encompassing competitive, technical and managerial skills aiming at transforming every student into a world class IT professional, second to none.

iiit-b is jointly funded by the Government of Karnataka and the IT Industry and governed by the Governing Body comprising of captains of the industry, directors of academic institutes (IISc and IIM-B) and representatives from the Government. This synergy of academia, industry and Government will go a long way in evolving **iiit-b** into a Centre of Excellence.

The Campus

iiit-b is housed in International Tech Park at Whitefield. With more than 24,000 sq.ft. of air-conditioned space, uninterrupted power supply and aesthetically designed interiors, it offers world class study and work environment for students, faculty and support staff. It houses nine classrooms, fifteen faculty offices, the Library and a large student lounge in addition to Focused Labs and the Incubation Park. All the classrooms have large-size screen projection for audio, video and data as well as access to high-speed network. Classrooms have been enabled with video-conferencing and digital recording facilities. A fibre optic network with switched Ethernet (Gigabit) forms the backbone with access to the Internet all around the campus.

PGDIT

The flagship program of **iiit-b** is the three semester Post Graduate Diploma in Information Technology for engineering graduates. This concentrates on foundations of IT, cutting edge technology, IT applications and a core set of B-school courses.

Focused Labs

These industry funded labs form an integral part of **iiit-b**. These labs provide state-of-the-art hardware, software, courseware on cutting-edge technologies to the students and

faculty of **iiit-b**. Areas of focus include Distributed Computing, Embedded Systems, ERP, Enterprise Management, CAD/CAM, Next Generation Networks, Data Warehousing/ Data Mining, New Media, Visualization and Advanced Databases.

Faculty

iiit-b has a faculty strength of 20, drawn from some of the best universities around the world. Out of this, 4 are core faculty and the rest are visiting faculty.

Library

iiit-b has an efficient library (funded by Infosys) focused on IT, to which the students have round the clock access. Most of the materials are in digital form (both off-line CD and on-line) with access to high-speed networking from anywhere in the campus.

Personnel

The total strength including faculty, officers, research and administrative staff stood at 22 as on June 30, 2000.

Recognition from DSIR

The Department of Scientific & Industrial Research (DSIR), Ministry of Science & Technology has recommended **iiit-b** as SIRO (Scientific & Industrial Research Organization) from January 18, 2000.

Accreditation from DOEACC, Ministry of Information Technology, New Delhi

Senior Executives of DOEACC Society had inspected the Institute and commended the excellent infrastructure and the facilities. Accreditation for the Post Graduate Program in Information Technology at DOEACC C level (Equivalent to M. Tech Degree) is being considered.

AICTE Approval

Action has already been taken to meet the requirements of the All India Council for Technical Education (AICTE) under the AICTE Act, 1987.

Student Activities

The annual cultural festival (OORJA 2K) is a reflection of the cultural diversity of the students and their talents. This cultural carnival, 'OORJA 2K', held in the first week of February included events like friendship day, ethnic day, quizzes, musical events and various other group competitions, all this without affecting the regular academic activities. It was indeed a grand success with many a hidden talents coming to the fore.

Lecture Series

iiit-b Lecture Series brings the best minds in IT from around the globe to the reach of citizens of Bangalore. All the Lecture Series have been arranged in a central location in the city with due announcement in the newspapers. The attendance in these lectures have been fairly good and increasing every month. The lectures are planned once a month (typically in the middle of the month). Under the **iiit-b** Lecture Series, we had the following speakers :

❖ Prof. Ken Kenniston of MIT (June 1999)
"Language, Power and Software"

❖ Prof. V. Rajaraman of IISc (July 1999)
"Towards an Information Utility"

❖ Prof. P.V. Indiresan of IIT, Delhi (Ex-Director of IIT, Madras) (August 1999)
"Why not a Bill Gates from India ?"

❖ Prof. Narasimhan of TIFR/NCST (Sept 1999)
"Deploying IT in India : The Need for a Larger Vision"

❖ Dr. Dileep Bhandarkar of Intel, USA (Oct 1999)
"Microprocessor Technology for the Information Age in the Millennium"

❖ Prof. Annalee Saxenian of U.C. Berkeley.(Nov 1999)
"From Brain Drain to Brain Circulation? Silicon Valley's Indian Engineers in Comparative Context"

❖ Mr. B. V. Jagadish, CEO Exodus.Com (Dec 1999)
"Dotcom Phenomenon"

❖ Mr. N. Vittal, Central Vigilance Commission (March 2000)
"Controlling Corruption though IT"

❖ Prof. Radhakrishna Canchi of Nokia Research Centre (June 2000)
"Bluetooth Technology"

The Governing Body (effective from June 2000)

Chairman

N. R. Narayana Murthy
Chairman, Infosys Technologies Ltd
Bangalore.

Members:

Dewang Mehta, President
NASSCOM,
New Delhi.

Goverdhan Mehta
Director, Indian Institute of Science, Bangalore.

K. V. Kamath
MD. & CEO, ICICI Ltd.
Mumbai.

B.V. Naidu
Director, STPI Bangalore.

M. Ram Mohan Rao
Director, Indian Institute of Management, Bangalore.

R. Ravi Shankar
CEO, I-Flex
Bangalore

Som Mittal
Managing Director, Digital Equipments (I) Pvt. Ltd.
Bangalore.

Vivek Kulkarni
Secretary to Government
Information Technology Department
Government of Karnataka
Bangalore.

S. Sadagopan
Director – **iiit-b**
Bangalore.

Founding Governing Body (Sep 1998 – May 2000)

Mr. N. Viswanathan , IAS, Principal Secretary

Mr. B.K. Das, IAS, Chairman, KSIIDC

Mr. Sanjoy Das Gupta, IAS, Secretary-IT

Mr. Dewang Mehta, President, NASSCOM

Mr. N. R. Narayana Murthy, Chairman, Infosys

Mr. Som Mittal, MD, Digital

Mr. B. V. Naidu, Director, STPI, Bangalore

Prof. M.Ram Mohan Rao, Director - Indian Inst. of Management, Bangalore

Prof. Goverdhan Mehta, Director - Indian Institute of Science, Bangalore

Governing Body Meetings

1.	November 7, 1998
2.	January 11, 1999
3.	May 8, 1999
4.	July 3, 1999
5.	December 30, 1999

Post Graduate Program in Information Technology

POST GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY (PGDIT)

PGDIT is a three-semester broad-based program on IT going beyond traditional computer science. Apart from imparting technical knowledge, the program provides managerial skills, which go hand-in-hand in today's knowledge-dominant world. The first two semesters are devoted to class work. The final semester enables **iit-b** to justify its motto – "Leveraging IT for India". In this semester students do their internship where they work on live projects in reputed organizations – software houses like Infosys, Wipro, Ramco; consulting companies like A T Kearney, PWC, KPMG; solution companies like Bangalore Labs, GE; end-user organizations like HLL; and start-up companies like Evolus, Aalayance. This enables industry to have ready-to-work knowledge professionals. During their internship students also receive the stipend.

The post-graduate program offers intense and thorough courses on foundations, and advanced and application areas. The curriculum has been prepared to meet industry requirements, keeping in view the dynamics of the IT industry.

The first semester has Foundation courses like:
- Programming Languages
- Data Structures and Algorithms
- Operating Systems
- Database Management Systems
- Networking and

Broad-based courses like:
- Management Accounting & Finance
- Technology Communication
- Dynamics of the IT Industry.

The advanced and application-oriented courses in the second semester include:
- Enterprise systems
- E-commerce
- Software Engineering
- Software Project Management
- IT Infrastructure Management
- Business Intelligence

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The third semester is meant for the internship program. Those who envisioned **iiit-b** saw the deficiencies in the traditional classroom teaching and realized the need for bridging the gap between the academia and industry. The six-month-long internship is to involve students in live projects that provide them an opportunity to put to practical use what they have acquired in the first two semesters. It also helps them get an insight into the organizational culture of top IT enterprises. Organizations also get an opportunity to observe the interns from close quarters and evaluate them for prospective employment. All these features position PGDIT at **iiit-b** as a unique academic program tailor-made for industry requirements, particularly in the net economy.

DOCTORAL PROGRAM

iiit-b is curently in the process of designing a high quality doctoral program. To start with, professionals working in firms located in Bangalore will work with **iiit-b** faculty and a guide in their respective companies. Those with excellent academic credentials in Master's degree would only be admitted. The idea is to bring high quality professionals to add significant value to them and to **iiit-b**, thereby bringing the right "research focus" to **iiit-b** without the Institute having to find substantial financial resources to support research.

Admissions

The selection procedure for admission to the Post-Graduate Program in Information Technology is based on an All India level written test followed by an interview at Bangalore. A first-class bachelor's degree, in any branch of engineering/technology (or its equivalent) is the minimum qualification for appearing in the entrance examination. Pattern of the examination is very similar to the CAT/ GRE/ GMAT examinations.

Fee Structure (First Batch)

Tution Fees	-	Rs 25,000 per semester
Hostel rent	-	Rs.1,200/- per month (approximate)
Mess charges	-	Rs.1,300/- per month (approximate)
Caution deposits (for laptop, library, etc.)	-	Rs.30,500/-

First Batch of PGDIT

First Batch of Post Graduate Diploma in Information Technology (PGDIT) program commenced with the releasing of an advertisement calling for applications from prospective students in the selected newspapers. We used the Internet for efficient dissemination of information. The web site was ready on July 1, 1999. We had given permission to the students to download the application form, print and then send the same along with examination fee of Rs. 500/- by way of DD/PO. Interestingly, the Internet reached many students even in the interior parts of the country as a route for getting the application forms. Almost 5,000 candidates had taken the application forms and the printed brochures. Considerable number of requests were received from candidates abroad, especially from USA, Scandinavian countries, Russia, Malaysia & Nepal.

On request from the Principals of the local colleges, awareness camps/information desks were organized in about ten engineering colleges in and around Bangalore. In order to reach the attention of students in Engineering colleges in rural and mofussil areas of Karnataka, an advertisement in Kannada was also released in all editions of Kannada Prabha. A set of application materials were also dispatched to all the engineering colleges in Karnataka.

Initial scrutiny of all the applications were carried out to ensure that the candidates fulfill the eligibility criteria. The last date

for receipt of the application forms was July 22, 1999. More than 3,000 candidates took the Common Admission examination on August 22, 1999 which was organized in nine centers in Bangalore. The answer scripts were processed and the top 300 candidates were called for an interview on September 6, 1999.

These candidates were called for group as well as individual discussions. 150 candidates were finally selected for the admission by the Selection Committee. Formal letters of admission were sent to the candidates immediately thereafter and out of the 150 selected candidates, 136 joined the Institute. All of them have completed the First Semester and the Second Semester by April, 2000. The internship started in May 2000.

Second Batch of PGDIT

The Second Batch PGDIT admissions process commenced from February, 2000. Advertisement calling for applications from the students in leading newspapers was released. For the second batch, the Entrance Test was conducted in 6 centres (Bangalore, Chennai, Delhi, Calcutta, Mumbai & Hyderabad) and the top 500 candidates (from the 3200 appeared) were selected for group discussion and interview. 150 students were finally admitted in June 2000.

Fee Structure (Second Batch)

Fee Structure	-	Rs. 40,000 per semester
Hostel rent	-	Rs.1200/- per month (approximate)
Mess charges	-	Rs.1300/- per month (approximate)
Caution deposits (for laptop, library, etc.)	-	Rs.38,000/-

Scholarships / Medals

A number of scholarships have been endowed by different organizations. These are:

❖ Visveswaraya Memorial Scholarship - to two best students.

❖ Kindle Systems Scholarship Grant - to the Best CS student.

❖ As part of the Chair Professor-ships from ICICI, iFlex Solutions, KSIDC, there is provision for scholarships in the form of assistantships.

Curriculum

Post Graduate Diploma in Information Technology (PGDIT 1999-2000)

The innovative Three-Semester Post Graduate Diploma program in Information Technology focuses on the foundation of IT, cutting-edge applications and core business issues with significant lab sessions. The course work is supplemented by one semester-long "internship" in industry.

The First semester started as per the plan and lasted till December 28, 1999, and the Second Semester started from January 2000 and ended April, 2000. The Semesterwise courses were as follows:

I Semester

Sl. No	Title	Faculty
1.	Programming Languages	Prof. H.N. Mahabala
		Prof. K.V. Dinesha
		Prof. Raghu Hoodli
		Dr. P.G.P Bhatt
2.	Operating Systems	Prof. R.Krishnamurthy
3.	Data Structures and Algorithms	Prof. N.R.S. Raghavan
4.	Data Base Management Systems	Prof. Swarnalatha Rao
		Prof. Sunanda Seetharam
5.	Networking	Prof. H. Krishnamurthy
		Prof. Gopi Garge
6.	Technology Communication	Prof. Mohan Sundararajan
7.	Accounting & Finance	Prof. S. Sundararajan
		Prof. Padmini Srinivasan
		Prof. S. Krishnamurthy
8.	Dynamics of IT	Prof. S. Sadagopan

II Semester

Sl. No	Title	Faculty
1.	Enterprise System	Prof. S. Sadagopan
2.	E-Commerce	Prof. S. Sadagopan
3.	Software Engineering	Prof. K.V. Dinesha
4.	Software Project Management	Prof. K.V. Dinesha
5.	IT Infrastructure Management	Prof. S. Sadagopan
6.	Business Intelligence	Prof. S. Sadagopan
7.	Dynamics of IT	Prof. S. Sadagopan
8.	IT Strategy	Prof. G.Sridhar
9.	IT Marketing	Prof. V Ramaswamy

Evaluation: Continuous evaluation is carried out through Quizzes, Assignments, Projects and Examinations as per the discretion of the Instructor. Evaluation is rigorous, thorough and transparent with the instructor deciding the details best suited for the course concerned. The grading system uses letter grades and Cumulative Grade Point Average (CGPA) is used to measure the overall performance in the program.

III Semester

Internship: Assigned to one of the partner organizations, students work on major "live" development projects identified much earlier by constant interaction with **iiit-b** faculty and industry. A select group of students had overseas internship opportunities at one of the premier global corporations - General Electric, USA.

Strengths

a) Based in Bangalore, the home of renowned science, technology and management institutions like IISc, IIMB, NAL, LRDE, GTRE and CPRI, iiitb is inspired and motivated by the success of these premier institutions. Bangalore being the Silicon Valley of India in terms of climate, cosmopolitan culture, spirit of entrepreneurship and the presence of major Indian and global IT companies, **iiit-b** can provide the best exposure to future IT professionals.

b) Starting its operations from the Innovator Tower of International Technology Park at Whitefield, Bangalore, **iiit-b** campus location shares probably the best address today in India for IT infrastructure facilities and services.

c) As a locational advantage, **iiit-b** has the presence of more than 40 IT companies in the ITPL campus with more than 3000 engineers working round-the-clock in the immediate vicinity.

d) **iiit-b** has locational advantage with conducive ambience at ITPL with large open space, playgrounds(cricket ground, tennis court) landscaping, greenery, state-of-the-art fitness center, recreation center, banking facility with ATM, several food outlets and other services.

e) **iiit-b** has got renowned faculty from the cream of academia and industry which includes visiting faculty from IISc and IIMB.

f) Students from diverse engineering disciplines from all parts of the country are selected after a rigorous admission procedure.

g) **iiit-b** has the active participation from the Indian IT Industry (Infosys, Digital, iflex, ICICI), IT Associations (NASSCOM) and Academic Institutions (IISc and IIMB).

h) A truly state-of-the-art infrastructure. **iiit-b** provides a well-configured laptop with access to all key softwares to every student to aid their academic activities.

i) **iiit-b** has significant support in terms of hardware, software and courseware investments from IT majors around the globe - Microsoft, Apple, Adobe, IBM, Oracle, SAP, Novell, Compaq HP, PTC, etc. Hands-on sessions are available on leading edge hardware/software products from Cisco, Microsoft, Sun, Oracle, Novell and so on.

j) **iiit-b** provides internship with partner companies over a 6 month period, working on live projects identified by the faculty and industry well in advance.

Institute Structure

Primarily **iiit-b** spreads its wings in three areas: Education & Research, Think Tank, and Technology Incubation Park.

Education & Research Wing: This wing concentrates on graduate studies (Masters & Doctoral level) with a dedicated team of capable researchers and academicians. Industry participation is continuous by way of Chair Professorship, Focused Labs and live projects.

Think Tank: It undertakes policy oriented research that addresses the larger issues – a series of White Papers, Case Studies on IT and an upcoming Journal 'IT Review".

Technology Incubation Park: Based on the Stanford model, helps in creating a 'Silicon Valley' type entrepreneurial spirit to launch start up companies.

iiit-b signed the lease agreement with International Technology Park for 20000 Sq.ft space in the First Floor of Innovator Block at ITPL, that was approved by the Governing Body in its third meeting held on May 8, 1999.

Interior Design & Engineering

After extensive evaluation of competitive bids from the different parties, it was decided to place the order with M/s. Teekays Interiors Solutions Pvt. Ltd. Teekays also had done the interior design in some of the schools which are part of IIIT, Hyderabad. They also had a good track record in terms of client list and had a near exclusive focus on working with IT companies. Their architect and the design teams were also IT savvy; they could generate a realistic 3D walk-through of the entire campus. All their estimation was done using their in-house software. They also had the ability to thermally map the location for various load conditions. Since **iiit-b** is the only organization in ITPL that had a special need for covered space (Contrasted with the open space architecture of all the software houses), thermal analysis for optimal air-conditioning was an important requirement. They did a good job in terms of flooring, partitions, furniture, lighting, electrical fittings, air-conditioning, phone networking, data networking and video networking. They completed the work in a record of 8.5 weeks so that we could conduct our interview in the campus on September 6, 1999 and start the lectures on September 15, 1999 as per our original schedule.

Academic Infrastructure

Video based delivery in the Classrooms: As we have started with a large batch size of 150, the architecture of ITPL with a limited head room made it impossible to have gallery type of classrooms required to accommodate a large batch. To get over this difficulty, we have attempted a novel experiment of delivering the lectures through the video in two of the classrooms that are adjacent to the main auditorium (Room 103). The main auditorium can hold upto about 70 students and the adjacent classrooms (Room 102 and 104) can hold upto 40 students each. Using both audio and video feedback, we are able to accommodate the large batch, without needing additional instructors or the same instructor teaching different sections of the same course many times.

While audio feedback is relatively easy to implement, we had to use a special video multiplexer to provide video feedback. Using two screens in the main classroom, we are able to project the pictures of the student who is asking the question

to provide the feedback in video form to the instructor. It is for first time such a facility and experiment has been undertaken in any of the Indian institutes. Faculty and students feel that this has not sacrificed the quality of instruction in any way. The IP based video equipment was donated by Cisco. We are in a position to deliver the video in all the nine classrooms and even in the cafeteria (to cater to a larger audience when distinguished persons visit the campus).

A side benefit of the video delivery is complete recording of all the lectures that take place in the campus. We have two VCP cum monitor stations equipped with head phones, which are used by the students in case they miss a class or when they want to go through the lecture once more, either alone or with a group of students. It comes particularly handy in some of the subjects where the backgrounds of the students vary considerably, for e.g., in Computer Network courses. This also facilitates students in learning from other fellow students, thereby increasing the academic vitality of the campus.

Campus wide networking: In tune with the current trends in networking and to stay at the cutting edge technology, **iiit-b** decided to skip the megabit networking in LAN segment and go directly to a gigabit networking. A five segment fibre-optic based backbone with UTP based cables upto the desktop forms the main cabling infrastructure of the campus. The network extends to every part of the campus including all the classrooms, faculty offices, support staff offices, focused labs, library, meeting rooms and even the cafeteria. On the WAN front, once again, we decided to skip kilobit networking and straight jump to a megabit networking. We have taken a 2- megabit link from VSNL. In terms of bandwidth per student, **iiit-b** would be best placed in terms of WAN network amongst all the educational institutes in the country. A set of three high performance servers from Compaq provide the basic server infrastructure. All the servers have at least 1 GB of RAM and 25+ GB of hard disk space. For convenience of maintainance, the cable plant follows structured cabling system. A set of switches from AT&T distributed around the campus, along with central switch, will provide high speed LAN bandwidth to the campus community. The routers were donated (approx. $160,000 worth) by Cisco. (Due to the delay in the DSIR recognition and the subsequent non-availability of import duty exemption, the routers are yet to arrive at the campus; the network is presently managed with temporary low speed hubs to provide networking within the campus).

Notebook computers to the students: A unique feature of **iiit-b** is to provide a notebook computer to every student admitted to the PGD Program. Through a special

equipment grant from Compaq, we could get the notebook at a substantially low price. With DSIR recognition and the anticipated exemption from payment of customs duty, our cost of providing notebook computers to every student would be substantially low. Thanks to a special arrangement with Microsoft, Oracle and Novell, we were able to get significant amount of software for the notebooks practically free of cost. This has added enormous value to the education of **iiit-b** without burdening financially the administration of **iiit-b**. The students are excited and are using this facility extensively. In fact every student of **iiit-b** has a notebook whose commercial value is approx. $ 2,000 and each loaded with software whose commercial value would be another $ 4,000. Every one of the notebooks has also a built in 56 kbps modem and 100 mbps PCMIA card for connecting to the Internet using Ethernet or a dial-up modem. Notebooks have full multimedia capability with CD ROM Drive, mike and speaker in addition to a sound card.

Infosys Library: In recognition of the cash grant of Rs. 1 crore from Infosys, the library is named after Infosys. The plan is to make it a digital library with access to print medium only for reference material and textbooks. There are about 1,000 books currently in the library. Thanks to the 2Mbps Internet connectivity, we have a network license for the full text of most of the IT related journals from IEEE and ACM. Some key journals are subscribed in print form for the current year. The entire archives would be in electronic form. We plan to skip the CD also except as network buffers. The library is open 24 hours. A professionally qualified librarian provides value addition by way of providing index to IT related articles in the Indian print media which are accessible through the Internet at the **iiit-b** home page. Student volunteers maintain the library services after the office hours. A very high speed intelligent laser printer is available at the library (on charge basis to the students).

Text books: In order to ensure that the students get the best education at **iiit-b**, we had decided to invest in issuing text books to students for the core courses. To keep the cost low, we provide most of the books out of the low cost Indian reprints of the original international editions. This does not increase the cost of operation, but we strongly feel that it adds significant value to the education process of **iiit-b**.

Photocopying facilities: The entire photocopying at **iiit-b** is outsourced to a shared photocopying facility available in the basement of ITPL. The quality of photocopying needs to be improved and efforts are on to request the vendor to improve the quality. Occasionally, we use the better quality photocopying facilities at the IIMB. For urgent and confidential photocopying, a multi copier (scanner-colour

copier printer-fax machine from HP) is used by the faculty and administrative staff.

Focused Labs

A set of labs primarily funded by industry in the following theme areas have started functioning. These include:

- New Media Lab funded by Apple and Adobe
- Directory Services Lab funded by Novell
- Enterprise Lab funded by Computer Associates
- ERP Lab funded by Ramco (SAP funding is being explored)
- DNA Lab funded by Microsoft
- Business Intelligence Lab Funded by Informix, SPSS (IBM funding is being explored)
- E-commerce Lab funded by Sun Microsystems
- E-governance Lab funded by Compaq

Supporting Infrastructure

Lodging facilities at Sai Gardens: A beautifully landscaped area of approx. 20 acres that houses 400 flats (studio, single bedroom and double bedroom) at Sai Gardens, near Sai Baba Ashram is used to lodge most of the students. It is approximately 3 kms from ITPL. For the first four weeks, the institute provides to and fro transport facilities through a hired bus service. Later on students manage their own transport. Sai Gardens facilities are well maintained and landscaped with lush lawns providing a campus like environment that is conducive for studies. A central hall acts as a meeting room and occasional dining room. To help students to get over the difficulties of 10 months advance, **iiit-b** has entered into an agreement with individual owners at Sai Gardens. **iiit-b** also invested in cots, beds, pillows, bedspreads, geysers, steel almirahs, writing desks and a set of chairs for the students. The students are charged rent at the end of every month on an average basis. The operational charges are recovered on a notional basis at 3% on the actual cash outflow.

Boarding facilities with Megabite: A food court in the basement of ITPL serves as a primary boarding point for the students. Through a special arrangement, students are charged Rs. 20/- for the meals while the normal charge is Rs. 30/-. Several eat outs in Whitefield also serve the boarding needs of the students.

Faculty

Director
Prof. S. Sadagopan (June 1999 onwards)

Professors
Prof. K.V. Dinesha (Oct 1999 onwards)

Associate Professors
Prof. G. L. Shekar (joining on Aug 1, 2000)

Assistant Professors
Prof. Balaji Parthasarathy (joining on July 15, 2000)
Prof. Venkatesh Hariharan (July 1999 to Dec 1999)
Prof. Padmini Srinivasan (Dec 1999 onwards)

Visiting Faculty
Prof. H.N. Mahabala, IIT Madras Retd (Both Semesters)
Prof. Mohan Sundararajan (I Semester)
Prof. Swarnalatha Rao (I Semester)
Prof. R. Krishnamurthy, IISc (I Semester)
Prof. S. Sundararajan, IIMB (I Semester)
Prof. N.R.S. Raghavan, IISc (I Semester)
Prof. H. Krishnamurthy, IISc (I Semester)
Prof. Sunanda Seetharam, Consultant (I Semester)
Prof. S.Krishnamurthy, Consultant (I Semester)
Prof. Gopi Garge, IISc (I Semester)
Dr. Raghu Hoodli, Object Orb (I Semester)
Dr. P.G.P. Bhatt, Object Orb (I Semester)
Prof. G. Sridhar, Veritas (II Semester)
Prof. Thirunarayana, IIMB (II Semester)
Prof. Yeshwanth Kanetkar, Consultant (II Semester)
Prof. V. S. Ramaswamy, IIMB (II Semester)

Adjunct Faculty
Prof. Deependra Moitra, Lucent Technologies

Short Term Faculty Visits
Prof. Anne Lee Saxenian, University of California, Berkely
was a visiting professor at **iiit-b** during the week of December
1, 1999 to December 8, 1999.

Prof. Deb Roy, Media Lab, MIT, USA visited the Institute and
gave a talk to the students on November 3, 1999.

Prof. R. Sadananda, Chairman, Computer Science
Department, Asian Institute of Technology, Bangkok, visited
the Institute and gave a talk to the students on November
5,1999.

Padmabhushan Prof. V. Rajaraman of Jawaharlal Nehru
Center for Advanced Studies visited the Institute and talked to
the students on December 12, 1999.

Prof. Seetharam Iyengar, Chairman, Computer Science Department, Louisiana State University, USA visited the Institute in July 1999 and

Prof. R.L. Kashyap, School of Electrical and Computer Engineering and Associate Director, NSF Center for Intelligent Manufacturing visited the Institute in December 1999.

Except to accommodate the changes needed by the visiting professors, who are well known in their fields and whose services are demanded by a large number of organizations, most of the classes were held as per schedule. Most of the courses have about 45 contact hours for a 3 credit course spread over the 15 weeks of the semester (typical graduate level course in most of universities that follow a semester system) and all the courses also have a lab component where the students do lot of "hands-on" problem solving.

As per the actual practice adopted by most institutions, the instructors follow a continuous evaluation system consisting of quizzes, projects and examinations. The grading is rigorous, but transparency to the student is maintained at every level.

Research Associates / Teaching Associates (as of June 2000)

1   Bhaskar Rao
2. Ashish Sinha
3. Sudhir K.P
4. Ravindra Reddy
5. Srinivas Rao
6. Vedveer Singh
7. Ms. G. Sobha
8. Ms. Sujatha
9. Ms. Swaroopa
10. Ms. Indrani

Non – Teaching Staff

1.	Mr. Durai Murugan	Manager - Technical
2.	Mr. R. Panchaksharaiah	Manager - Administration
3.	Ms. Aruna M.B	Manager – Finance
4.	Ms. Ramadevi S	Librarian
5.	Ms. Chintana	Secretary

Faculty profile

Prof. S. Sadagopan: Obtained his MS and PhD from Purdue University in 1977 and 1979 respectively. He has taught for more than 20 years at IIT Kanpur & IIM Bangalore. His research interests include Multimedia, Enterprise Computing, Networking & Operations Research. He is listed in Marquis Who's Who in the World. He co-ordinates the Microsoft funded University Advanced Technology Lab, SAP / Intel / Compaq funded ERP Studies Center and the Compaq

funded Multimedia Executive Education Center at IIMB. He contributes regularly to the columns of Economic Times, Computers Today, Dataquest & Express Computers. Professor Sadagopan is a Certified SAP Consultant.

Prof. K. V. Dinesha: Obtained his Ph.D. from IIT Bombay in 1979. He did his post doctoral research in Germany on Alexander Von Humboldt fellowship from 1982 to 83. He worked in the subject of application of representation theory of permutation, unitary and rotation groups to study atomic and molecular structures. From 1983, he was involved in teaching, research and consultancy in information technology in academic institutions and in IT firms. His areas of interest are software engineering, quality systems (ISO & SEI-CMM models), cryptography, object technology and data structures.

Prof. Balaji Parthasarathy: Obtained his Ph.D. from the University of California, Berkeley, and a Bachelor's degree from the Indian Institute of Technology, Kharagpur. Balaji's primary interest is the impact of technological change on the economic fortunes and social relationships in cities and regions. His current work focuses on the opportunities and constraints posed by information technology for regions in newly industrializing countries and cities such as Bangalore.

Prof. G.L.Shekar: Obtained his Ph.D from the Indian Institute of Science, Bangalore and Master's from IIT Kanpur. His research interests are in systems modelling and decision support systems in Operations Management with applications in capacity planning and production scheduling. He has demonstrated the application of heuristics and simulation to real-world dynamic manufacturing environment. He teaches subjects like Management Information Systems and Database Management Systems.

Prof. Padmini Srinivasan: She holds a Master's degree in Commerce and is a member of the Institute of Chartered Accountants of India and Institute of Company Secretaries of India. She has fifteen years of working experience in industry, working in the area of financial accounting, company law and taxation. Her research interest is in Standards of Disclosure Practices in India.

Prof. Venkatesh Hariharan: He was one of the eight journalists selected for the Massachusetts Institute of Technology's prestigious Knight Science Journalism Fellowships in 1998-99. This is the most prestigious fellowship for science journalists, worldwide. He was one of the youngest editors of Express Computer, which is one of the leading computer magazines of the Indian Express group. He has the distinction of interviewing some of the well-known personalities in the world of IT Industry, including Bill Gates, Kevin Kelly, John Gage; Dr. Jagdish Seth of Emory Business School and many others.

Research & Faculty Activity

The Institute has commenced work on the following Projects/Research:

❖ The Institute completed a Project on "Computing in Indian Languages", funded partially by MAIT (Manufacturer's Association of Information Technology). The Report was released in IT 2000 Delhi on Feb 5, 2000 by Prof. Ken Kenniston of MIT.

❖ Two projects on ERP in India and Internet Diffusion in India continue, directed by Prof. S. Sadagopan.

The Projects which are currently at the proposal stage for funding from other agencies:

1. Linux for India (Indian Linux Association)
2. Object Technology Center (with Rational Technology)
3. Building E-Commerce prototypes (Compaq)
4. Medical Informatics (Manmar Technologies)
5. Development of Software for sky theatre (Jawaharlal Nehru Planetarium)
6. IP Services Lab (with Novell)

Prof. K.V. Dinesha:

❖ Gave an invited talk at CSI `99, Mumbai on "**iiit-b**: A new generation IT Institute" on November 3, 1999

❖ Taught the C Programming module of Programming Languages (I Semester) course.

❖ Taught Normalization in Database Course (I Semester)

❖ Taught Software Engineering & Project Management in II Semester

❖ In charge of students counselling throughout the semester

❖ Developing course material for the Executive education program on software engineering to be offered in 2000-2001

Prof. Venkatesh Hariharan:

❖ Digital Divide, published inEconomic Times, Nov 25, 1999

❖ Editing the fortnightly JUMPSTARTUP, India's First E-zine devoted to entrepreneurship (started in November 1999)

❖ Columnist, fortnightly column 'E-mail from the Ether', Times Computing

Prof. S. Sadagopan:

Invited Talks Abroad

❖ "Human Resource Development for Knowledge Economy" STEPAN(South Asian Science & Technology Policy Analysis Network) Workshop, Seoul-Korea, June 12-15 2000

❖ "Preparing Asia for Digital Economy", United Nations University, Tokyo, Japan, invited talk on "Bangalore Experiment" June 29, 2000

Invited Talks in India

❖ Amara Raja Batteries' invited talk on "Case studies for BPR" , "Role of Consultant in BPR", Tirupati, June 5, 1999

❖ National OR Convention, Tirupati, Keynote Address, June 5, 1999

❖ Microsoft Office Launch 2000 - "An Institutional Perspective", New Delhi, June 7, 1999

❖ IIMB "IT in Services", OBP for Indian Hotels, Guest lecture June 16, 1999

❖ "Internet for Business City 2000" Keynote Address, June 26, 1999

❖ ORSI-IT for Management Science Application, Keynote Address, Bangalore, July 27, 1999

❖ IIMA Alumni Meet – "ERP Myths & Realities", Bangalore, Aug 7, 1999

❖ ADE- CEP course on Software Engineering Practicals for Aerospace Applications, Bangalore, Keynote Address, August 16, 1999

❖ CII-University of Warwick Management Program on Logistics and Operation invited talk on "Use of IT in Supply Chains - A case study", Hosur, August 20, 1999

❖ Evolus launch, Bangalore, August 21, 1999

❖ Institution of Engineers "Knowledge Management Overview" - Engineer's Day, Bangalore, Sep 15, 1999

❖ Ministry of Textiles Seminar (TEXINFOTECH), "IT in Textile Technology", September 22, 1999

❖ Belgaum IT Forum Information Technlogy for India, Belgaum, October 24, 1999

❖ 7th Annual Lecture on Informatics, November 27, 1999, Bangalore

❖ MAIT – Seminar on " Leveraging Internet for Business Excellence", Keynote Address, Bangalore, February 15, 2000

❖ National Conference on E-commerce, Institute of Public Enterprises, Keynote Address, Hyderabad, February 18, 2000

❖ Times of India Newspaper in Education Program invited talk "The Future of Internet", Bangalore, February 19, 2000

Presidential Address

- ❖ Can Bank Computer Services Seminar on E-commerce Security & Audit, Bangalore January 20, 2000, invited talk on "Revolution in E-commerce".
- ❖ Bangalore Forum for IT one day symposium on Internet Technology, trends & application, January 22, 2000, Keynote Address
- ❖ Computer Society of India, Hosur Chapter, Conference on IT-enabled Supply Chain Management, 24-25 January 2000, Keynote Address
- ❖ Bangalore Downtown (Rotaract Club of Bangalore) Ripples Manage IT, Bangalore , January 30, 2000 invited talk on "Corporate Movers and Shakers"
- ❖ IT Asia 2000 International Conference, Delhi, February 9, 2000. Release of **iiit-b** study on Indian Language computing and invited talk on "When will local language Software take off".
- ❖ Karnataka State Library Association 12th State Level conference invited talk on "Digital Library & IT Prospective", Bangalore, February 12-13, 2000
- ❖ Karnataka State Chartered Accountant & Association invited talk on "Impact of IT on Chartered Accountancy" 12th State Level Conference Bangalore, February 12-13, 2000
- ❖ Teachers Training Program, NCST, Bangalore March 9, 2000
- ❖ SCALE 2000 Supply Chain & Logistic Exposition organized by Indian Institute of Materials Management, Keynote Address, Bangalore, May 4, 2000

Times of India e-Education Column

Welcome Aboard, Nov. 15, 1999.
Power of e-Commerce, Dec. 3, 1999.
Is ERP Everyone's Road to Prosperity?, Dec. 27, 1999.
What Language to Learn?, Jan. 10, 2000.
Multimedia Mania, Jan. 24, 2000.
I am interested in Journalism, but..., Feb. 7, 2000.
Accountants & IT, Feb. 21, 2000.
Is Java your cup of Tea?, Mar. 6, 2000.
Should I go for DTP?, Mar. 20, 2000.
Librarians in the Dot.Com Era, Apr. 3, 2000.
Should I change my Engineering Branch?, Apr. 17, 2000.
Is there a future for medical transcription?, May 1, 2000.
Has the IT bubble burst? No way, May 15, 2000.
Should I do a course on e-commerce?, May 29, 2000.
Is the IT gold rush restricted to engineers alone?, June 12, 2000.
MBA or MCA?, June 26, 2000.

Economic Times

Return on Information, June 3, 1999 Where are the Wizards?, Jul. 15, 1999
Lessons to learn from IT Industry, Sep. 23, 1999
All eyes on e-business, Oct. 24, 1999
A different road ahead, Nov. 4, 1999
Welcome to click and conquer world, Jan. 8, 2000
When is Your Company getting Dotcommed?, Jan. 13, 2000
If Content is the King who is the King Maker, Feb. 10, 2000
Gandhiji comes alive, thanks to multimedia, Mar.16, 2000
When will Indian Language Software takeoff?, Mar. 30, 2000
Opportunity@indian-postoffice.com, Apr. 27, 2000

CIO India Analyst Corner

Extended Enterprise , Jan 2000.
Where is the data to warehouse? , Feb 2000.
TCO – Total Vs Total Cost , Mar. 2000.
What is a Firewall? , Apr. 2000.
Do you know your Customers? , May 2000.
Supply Chain for Everyone , June 2000.

ITSpace.com

The Shift from Economy into E-conomy, Dec 1999.
Y2K Lessons , Jan 2000.
India should see the light beyond the bulb , Jan 2000.

Consulting

Spinfo, Bangalore
HMT International, Bangalore
Ashok Leyland, Madras
CCE Software, Bangalore
BHEL Delhi & Tiruchi
Tata Elxsi, Bangalore
Kshema Technologies, Bangalore
RBI (BRBNML), Mysore
Amara Raja Group, Tirupathi
Manmar Technologies, Madras
Krone Electronics, Bangalore
NMDC, Hyderabad
MMTC, Delhi

Board Membership

IDBI Infotech (Feb 2000 onwards)

Advisor to Board

National Venture fund on IT
Tirumala Tirupati Devasthanam, Tirupati
System Logic

Audit Report

I have audited the balance sheet as at 31st March 2000 and the Receipts & Payments account/Income and Expenditure account for the year ended on that date, attached herewith of *M/S. INDIAN INSTITUTE OF INFORMATION TECHNOLOGY-BANGALORE, 1st FLOOR, INNOVATOR, INTERNATIONAL TECHPARK, WHITEFIELD ROAD, BANGALORE - 560 066.*

I certify that the balance sheet and the receipts and payments account/income and expenditure account read with notes on accounts are in agreement with the books of account maintained at the head office at *M/S. INDIAN INSTITUTE OF INFORMATION TECHNOLOGY-BANGALORE, 1st FLOOR, INNOVATOR, INTERNATIONAL TECHPARK, WHITEFIELD ROAD, BANGALORE - 560 066.*

I report the following observations / comments / discrepancies / inconsistencies, if any : NIL

Subject to above :

a) I have obtained all the information and explanations which, to the best of my knowledge and belief, were necessary for the purposes of the audit.

b) In my opinion, proper books of account have been kept by the institute so far as appears from my examination of the books.

c) In my opinion and to the best of my information and according to the explanations given to me, the said accounts, read with notes thereon, if any, give a true and fair view :

   i) in the case of the balance sheet, of the state of the affairs of the institute as at 31st March 2000 and

   ii) in the case of the receipts and payments account/income and expenditure account, of the income of the institute for the year ended on that date.

DATE : 25th October 2000
PLACE : BANGALORE

K.R. PRADEEP
CHARTERED ACCOUNTANT

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY- BANGALORE

Ist Floor, Innovator, International Techpark,
Whitefield Road, Bangalore - 560 066.

BALANCE SHEET AS AT MARCH 31, 2000

	Sch		Amount (Rs.)
SOURCES OF FUNDS :			
CORPUS FUND :	1		62500000.00
RESERVES & SURPLUS			
Income & Expenditure A/c			8925885.11
TOTAL			**71425885.11**
APPLICATION OF FUNDS :			
FIXED ASSETS:	2		
Gross Block			68283116.97
Less: Depreciation			8659299.00
Net Block			59623817.97
CURRENT ASSETS, LOANS & ADVANCES			
Advances & Receivables	3		5280832.38
Deposits	4		5266728.00
Cash and Bank Balances	5		5466624.58
			16014184.96
CURRENT LIABILITIES & PROVISIONS:			
Current Liabilities	6	4498410.00	
Provisions	7	296390.00	4794800.00
NET CURRENT ASSETS			11219384.96
Miscellaneous Expenditure			582682.18
(To the extent not Written off)			
TOTAL			**71425885.11**

Place : BANGALORE

Date : 25th October, 2000

K.R.PRADEEP
Chartered Accountant

S. SADAGOPAN
Director
INDIAN INSTITUTE OF INFORMATION
TECHNOLOGY-BANGALORE

INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD
ENDED MARCH 31, 2000

EXPENDITURE	Amount (Rs.)	INCOME	Amount (Rs.)
To Salaries & Wages	1784135.00	By Fees:	
" Staff/Student Welfare	52240.00	Faculty	68250.00
" Rent, Operation & Maintenance	6514307.89	Entrance Exams	4372151.00
" Advertisement	3293504.00	PG Student Fee	6800000.00
" Consultancy & Prof. Charges	790357.00	Executive Deve-	310250.00
" Courier & Postage	205617.40	lopment Programme	
" Hostel Expenses	1112148.00	" Donation-Equipments	23426790.00
" Printing & Stationery	493818.50	" Hostel Receipts	1071709.00
" Telephone and Internet	1195839.00	" Miscellaneous Receipts	800.00
" Travelling Expenses	795729.54	" Interest Earned on FD	125226.94
" Bank Charges	124277.01		
" Books, Journals & Periodicals	564896.25		
" Energy Consumption Charges	332142.31		
" Entertainment	60968.00		
" Examination Expenses	302704.00		
" General Administration Expenses	115238.72		
" Housekeeping & Security	282661.00		
" Insurance	164415.00		
" Repairs & Maintenance	46419.00		
" Seminars & Workshops	273832.74		
" Audit Fee	20000.00		
" Depreciation	8659299.00		
" Misc. Expenditure Written Off	64742.47		
" Excess of Income over Expenditure	8925885.11		
	36175176.94		**36175176.94**

Place : BANGALORE

Date : 25th October, 2000

K.R. PRADEEP
Chartered Accountant

S. SADAGOPAN
Director
INDIAN INSTITUTE OF INFORMATION
TECHNOLOGY-BANGALORE

RECEIPTS AND PAYMENTS ACCOUNT FOR THE PERIOD ENDED MARCH 31, 2000

RECEIPTS	Amount (Rs.)	PAYMENTS	Amount (Rs.)
Opening Balance	0.00	Plant and Machinery	23981378.97
Grants Received From Govt	36698000.00	Furniture & Fixtures	17054254.00
Donations	10000000.00		
Chair Professorship	2500000.00	Salaries and Benefits	1631653.00
PGPIT Courses	15824858.00	Establishment Expenses	15949863.39
Consultancy	145000.00		
Workshops	310250.00	Current Assets, Loans	
Others	126026.94	& Advances	1520361.00
		Closing Balances	5466624.58
	65604134.94		**65604134.94**

Place : BANGALORE
Date : 25th October, 2000

K.R. PRADEEP
Chartered Accountant

S. SADAGOPAN
Director
INDIAN INSTITUTE OF INFORMATION
TECHNOLOGY- BANGALORE

SCHEDULES TO BALANCE SHEET

SCHEDULE : 1 : Corpus Fund
Opening Balance 0.00
Add: Received during the year

Grant received from Govt of Karnataka	50000000.00	
Chair Professorship	2500000.00	
Donations	10000000.00	**62500000.00**

SCHEDULE : 2 : Fixed Assets

Particulars	Rate of Deprn	WDV As on 01.04.1999	Additions/ (Deletions)	Total As on 31.03.2000	Deprn	WDV As on 31.03.2000
Plant & Machinery						
Airconditioners	13.91%	0.00	456000.00	456000.00	32442.00	423558.00
Computers and Accessories	40.00%	0.00	45609219.97	45609219.97	5872003.00	39737216.97
Telephone System	13.91%	0.00	508266.00	508266.00	33998.00	474268.00
Fax Machine	13.91%	0.00	11000.00	11000.00	769.00	10231.00
Multimedia and CCTV Systems	13.91%	0.00	2622235.00	2622235.00	157414.00	2464821.00
Furnitures & Fixtures	25.88%	0.00	19076396.00	19076396.00	2562673.00	16513723.00
Total		0.00	68283116.97	68283116.97	8659299.00	59623817.97

SCHEDULE : 3 : Advances and Receivables

- Staff	91757.00	
- Students	436502.00	
- Others	44073.38	
- Suppliers (NIIT)	4626000.00	
- Receivables	82500.00	**5280832.38**

SCHEDULE : 4 : Deposits

Hostel	1369000.00	
Library	10000.00	
Premises	3750228.00	
Telephone	137500.00	**5266728.00**

SCHEDULE : 5 : Cash and Bank Balances

Cash on Hand	9818.00	
Fixed Deposit - HDFC	2500000.00	
Current Account - HDFC	2539514.58	
PGIT C.A/c. - HDFC	373212.00	
SWFund C.A/c. - HDFC	44080.00	**5466624.58**

SCHEDULE : 6 : Current Liabilities

Sundry Creditors	480910.00	
Deposits from Students		
Hostel Security Deposit	744000.00	
Laptop Deposit	2176000.00	
Library Deposit	544000.00	
Mess Deposit	553500.00	**4498410.00**

SCHEDULE : 7 : Provisions

Salary Payable	146743.00	
TDS Payable	129647.00	
Audit Fee Payable	20000.00	**296390.00**

Notes On Accounts

Significant Accounting Policies:

The financial statements have been prepared in accordance with applicable accounting standards and are based on historical convention method and ongoing concern basis.

a) Fixed assets are shown at cost of acquisition, which includes taxes, duties and other related direct expenses.

b) Donations received in kind consisting of Hardware and Software have been valued as per the certificate issued by the management. The value so determined has been shown as revenue receipts. Further since these are capital assets, the same have been capitalised.

c) Donations received with a specific direction towards corpus has been shown under corpus fund.

d) Depreciation on fixed assets has been provided on written down value method and as per the rates given below, pro rata from the date of capitalisation:

Plant & Machinery	13.91%
Computers and Accessories	40.00%
Furniture & Fixtures	25.88%

DATE   : 25th October 2000
PLACE : BANGALORE

K.R.PRADEEP
CHARTERED ACCOUNTANT

S. SADAGOPAN
Director
INDIAN INSTITUTE OF INFORMATION
TECHNOLOGY- BANGALORE

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ज्ञानमुत्तमम्

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Website : www.iiitb.ac.in