



International Institute of Information Technology Bangalore (A Deemed University)

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Director's Message

Welcome to IITB!

I am very happy to welcome to you to have a look at what IITB has on offer for our prospective students. The academic year 2016-17 will see exciting new additions both on the academic front and as well as the infrastructure front. We launched a first-of-a-kind Masters programme in Digital Society in 2015 and first batch of students have already joined. We are eager to welcome the second batch this year. The Integrated M.Tech. (iMTech) programme is being offered in two branches – ECE and CSE now. We have also just inaugurated the new housing infrastructure with enhanced hostel facilities.

The graduate programmes at IITB are among the best in the country, offering education oriented towards producing highly-qualified practitioners and researchers. As an independent institution and a deemed university, IITB collaborates with the IT industry, leading academic institutions abroad as well as India, and eminent scientists and industry leaders to offer students the best possible education. Our students have been well received by the industry, and have been placed with some of the leading companies in the field; in fact, IITB can boast of 100% placement for all its graduates. Some of our Masters students are also pursuing doctoral degrees both in India and abroad, with a view to enter academic / research careers.

Students are encouraged to ask questions, pursue their research interests, and gain membership and respect in the select club of high-achieving IT professionals. The infrastructure and interactions that IITB offers students and faculty makes possible the pursuit of individual and joint projects, industry-sponsored research, and study that is of the highest standards required for global competitiveness.

The institute has a relaxed, friendly atmosphere, but with a constant buzz of excitement due to many well-known visitors including giants from the industry, well-known scientists, and leaders of government from all over the world.

Admission is selective but not restrictive. We are very proud of the achievements of our alumni, and strive to gain good students who will achieve their potential and continue this trend. We thus warmly welcome applicants from different backgrounds who share our vision of excellence.

*S. Sadagopan
Director*

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Genesis

The International Institute of Information Technology Bangalore, a Deemed University, popularly known as IIITB, was established in 1999 with a vision to contribute to the IT world by focusing on education and research, entrepreneurship and innovation. The Institute is a registered not-for-profit society funded jointly by the Government of Karnataka and the IT industry.

Since its inception, IIITB, with its unique model of education, research, and industry interaction, has grown in stature to become an institution of considerable repute in academic as well as corporate circles. The Institute works in partnership with the corporate sector, while retaining the freedom of an academic institution. It is inspired by other renowned institutions, and also strives to emulate an academic culture that is on par with the best international institutions.

Why IIITB?

The IT industry in India as a whole is seeing an increasing shift from low-end programming or service-oriented jobs to high-end research and design that competes with the best worldwide. Many young people seeking entry to the IT sector find that they do not have the necessary technical or research background to obtain the types of roles they seek in their careers and must settle for unfulfilling work, and industry as well is frustrated by the lack of quality in the talent pool from which it must create tomorrow's exciting innovations and products. IIITB offers students a unique environment that provides them with state-of-the-art knowledge in multiple disciplines beyond traditional computer science, covering the wider spectrum of Information Technology. IIITB equips students to provide thought leadership and gain the satisfaction of fulfilling their creative and intellectual potential by becoming full peers to the brightest minds in the world.

Considering the pervasive nature of IT in all walks of life, IIITB encourages and admits students from a wide variety of academic disciplines into the programmes. About half of our students in recent years have been bright young men and women who already have some work experience, but have decided to take a break from their careers to pursue our M.Tech. programme in order to shift their careers on to more stimulating and rewarding paths. Strong interaction with the industry is built into our academic programmes because IIITB believes in equipping students to become productive right from the day they enter the industry. For those aspiring for academic goals, IIITB provides a research environment as well. Students have the opportunity to get financial aid in the form of scholarships and internships to help meet tuition and other expenses, so a bright student is limited only by his or her own vision and ambition.

Location

Bangalore is often called the Silicon Valley of India. With the pleasant climate, the urban amenities, the rich tradition of technical education, and the highly professional ambience, numerous global and local corporate big-name entities have found a home here. The IITB campus is located in the heart of Electronics City, one of the prestigious IT destinations in Bangalore, with excellent infrastructure, facilities, and services.

The list of companies located in the high-tech area close to the Institute is a virtual Who's Who of the IT business. IITB is situated opposite the Infosys corporate headquarters, and is within easy walking distance of other major companies like HP, Siemens, Wipro, HCL, GE, Tata, and others, giving students and faculty opportunities for productive interaction with the industry.

Campus & Housing

The Institute moved to its present Electronics City campus in 2003. The campus features well-maintained lush green lawns, musical fountains, and a small pond, creating an ideal learning environment to stimulate intellectual and personal growth.

Designed and built in compliance with the highest global standards, the teaching and learning infrastructure features the most advanced elements of contemporary academic tools. With addition of a new floor to the main academic block, the institute now has over 120,000 square feet of air-conditioned space, uninterrupted power supply, and a well-crafted interior, the Institute offers a world-class environment for students and faculty.

All the classrooms are “smart,” with high-speed data networks and large projection systems for audio and video. The well-designed main classroom comfortably seats in excess of 150 students. Video conferencing capabilities are built in using state-of-the-art audio-visual equipment. They include electronic smart boards, location-sensing microphones, and multiple LCD projectors, thus enabling an enriching learning experience.

All the academic programmes are residential in nature. Separate hostel facility is available for men and women. A majority of the students get individual rooms. Meals are available at the Food Court located in a separate building (the food that our students have is the same food that is also had by faculty and staff, and offered to visitors including distinguished dignitaries, thus ensuring high quality). A separate cafeteria is available for small snacks during working hours.

For recreation inside the campus, indoor games (carrom, chess and table tennis) and a limited number of outdoor games (cricket, football, volleyball and basketball) are available. All the hostel blocks are equipped with a reading room and a music/meditation hall and gymnasium facility.

Programmes at a Glance

The Institute is an exclusive graduate school that offers programmes that lead to post-graduate degrees. The graduate study programmes offered lead to (a) course-based outcomes, namely the Integrated Master of Technology (Integrated M.Tech.), and the Master of Technology (M.Tech.) in Information Technology and Electronic Systems Design, and (b) research outcomes, namely, the Master of Science by Research, and the Doctor of Philosophy (Ph.D.). These programmes offer training that is comparable to the best anywhere, and cater to different needs. The course-based degree programs are full-time resident programs that offer the students a comprehensive learning in an area of specialization. The research degree programs, which may be undertaken as a full-time or a part-time registration, train the students to undertake quality research work in a specific research domain. The course-based degree programs have a fixed timeline whereas the research degree programs are student-paced. Working professionals employed as research scientists/engineers at reputed organization or government agencies are encouraged to pursue part-time research degree programs.

Integrated M.Tech. (iM.Tech)

Integrated M.Tech. (iM.Tech) Programme is a five-year full time programme intended for students who have passed or are appearing for Senior Secondary (Plus Two) examination with Mathematics or equivalent subject. At the end of five years of the program, successful students get B.Tech and M.Tech. degrees. *(The B.Tech. degree will be issued subject to pending clarification on UGC notification regarding the matter of award of two degrees at the time of graduation. The said UGC notification is applicable to all Integrated Masters programmes across India for 2015 admissions onwards).* From the academic year 2015-16 onwards, separate admissions are being done in two branches: **Computer Science and Engineering (CSE)** and **Electronics and Communication Engineering (ECE)**.

M.Tech. in Information Technology (IT)

M.Tech. in Information Technology (IT) Programme is intended to provide education for students who wish to work in the IT industry as practitioners and also provide exposure to research that enables students to pursue a research oriented career. It is awarded upon successful completion of a 4-semester broad-based academic programme in IT, going beyond traditional computer science. Apart from imparting technical knowledge, the programme teaches managerial and other life skills that are essential for a successful career in today's competitive IT industry. All students enrolled in the M.Tech programme are residential, full-time students. The M.Tech programme is primarily intended for those who have a bachelor's degree in engineering. Please see the eligibility criteria for further details.

M.Tech. in Electronic Systems Design (ESD)

M.Tech. in Electronic Systems Design (ESD) is a programme launched by IITB in 2014. It is awarded upon successful completion of a 4-semester broad-based academic programme, with specialization either in System-on-Chip (SoC) or Embedded Systems. With the onset of a new wave of revolution being unleashed by the Internet of Things (IoT) due to

the availability of extremely low cost and low power hardware platforms in the form of SoCs and Embedded System boards, we are seeing the emergence of a new convergence between hardware and software. Its potential is limited only by human imagination and its impact is being seen in the rapid evolution it is fostering in different domains, such as, automation, e-health, mobile communication, smart home, automotive sector, consumer electronics, pervasive computing, computer architecture, etc. The new M. Tech. (ESD) program is being launched to meet the above vision.

Master of Science (Digital Society)

Acknowledging the growing need for interdisciplinary expertise to address the challenges of the digital society, this newly launched 2-year Masters programme in Digital Society aims to create a group of professional experts/researchers with a nuanced and multi-dimensional understanding of today's Information Age. Students will gain insights into the design of digital technologies, and the policy challenges of deploying such technologies, with a broad-based training that will draw from computer science, engineering, research methods, management, economics and other social sciences. The M.Sc. (Digital Society) programme is positioned at the intersection of a masters in social science and masters in information technology and is open to students with an undergraduate degree in any discipline.

Research Programmes

Master of Science by Research

Master of Science by Research degree is intended for professionals with bachelor's degree to learn and perform research in a supportive academic environment. It is awarded upon successful completion of a graduate-level research programme, usually lasting four semesters. Beyond the satisfaction of a relatively small number of coursework requirements, the major focus of the programmes on developing research skills, leading to the completion of a Master's thesis describing significant original results.

Doctor of Philosophy (Ph.D.)

Doctor of Philosophy Ph. D. (Doctor of Philosophy) degree is a terminal, research-oriented degree in the subject, intended to prepare students for research, teaching, and scholarly careers in academic settings or research laboratories. It connotes a superior comprehension of the field and a high aptitude for research, and is awarded upon completion of a programme that takes from 3 to 5 years. Beyond the satisfaction of a relatively small number of coursework requirements, the major focus is on carrying out a significant body of original research and the writing and defense of a doctoral dissertation describing this work.

Course Structure

Fundamental to Information Technology is the integration of different technologies and the integration of technologies into organizations. The uniqueness of the IITB curriculum is that it makes for a broad-based programme going beyond traditional computer science, and enables students to function well in the industry, while keeping the rigorous learning expected of a classical programme.

Integrated M.Tech.

The period of the Integrated M.Tech. programme will be a minimum of five years. The total number of credits required to fulfill requirements of the programme is 200. The course curriculum includes courses that are mandatory for all the students (“core”) as well courses that they can choose depending upon their area of interest (“elective”). The elective courses are broadly grouped into several area of specialization as shown below:

Computer Science and Engineering (CSE Branch)	Electronics and Communication Engineering (ECE Branch)
Computing Systems and Theory Data Science Software Engineering	Microelectronics and VLSI Networking and Communication Signal and Data Processing

The broad content structure of the proposed programme is summarized in the table below.

Course Categories	Credits	
Basic Engineering Science / Skills	16	
Mathematics and Basic Sciences	28	
Common Core	18	
HSS/M	16	
Masters Project	40	
Others	4	
Branch-specific credits	78	
	CSE	ECE
Branch Core	26	34
Electives	52	44
Total Credits	200	

M.Tech. (IT)

The M.Tech programme in IT is a four semester programme. The first three semesters of the programme constitute academic course work. During the fourth semester, a student can either take up an industry internship or academic research at the institute leading to a thesis.

The M.Tech programme also includes a unique 3-week period during the beginning of the programme called “Preparatory Semester.” The preparatory semester is intended to give uniform background to all the students irrespective of their technical background. This semester covers introductory programming in C and Java. After the 3-week preparatory term, the first semester of the M.Tech programme consists entirely of required “core” courses. These teach the new student the common foundational elements required, such as advanced programming principles, mathematical background, data structures and algorithms, computer networks, digital communication, databases, and fundamentals of software engineering. From the second semester, the student has the freedom to begin focusing in one of three areas, namely:

Computer Science and Engineering
Covers theoretical computer science, algorithms, programming languages, formal methods, cryptography, control systems, and so on
Data Sciences
Covers web science, data modeling, analytics, machine learning, video analytics, data visualization and so on
Networking, Communication and Signals
Covers computer networks, wireless communication, IoT, image processing, signal processing, network security, video analytics and so on.

Across the second and third semesters, the students take at least five elective courses in their area of specialization and an additional three open elective courses (some of which may include research and other individual or group projects supervised by a faculty member). The final semester is designated for industry internship, or the writing and defense of a research thesis. The following table summarizes the overall course structure of the M.Tech.

Semester	Course	Credits
Prep term (3 weeks)	Introductory Programming 1 (C programming)	0
	Introductory Programming 2 (Java)	0
Semester 1 (16 weeks)	Data Structures and Algorithms	4
	Operating Systems	2
	Database Systems	2
	Core Choice List (students have to choose courses from the list below) <i>Computer Networking & Communication, Software Engineering theory and Practice , IT Project and Product Management, Discrete Mathematics, Probability and Statistics, Linear Algebra</i>	8
Semester 2 (16 weeks)	Electives (students take at least 5 electives) <i>Across the second and third semesters, the students take at least five elective courses in their area of specialization and an additional three open elective courses (some of which may include research and other individual or group projects supervised by a faculty member).</i>	20
Semester 3 (16 weeks)		
Semester 4 (6 months)	Thesis / Internship <i>The final semester is designated for industry internship, or the writing and defense of a research thesis.</i>	16

M.Tech. (ESD)

The M.Tech in ESD programme is a four semester programme. The first three semesters of the programme constitute academic course work. During the fourth semester, a student can either take up an industry internship or academic research at the institute leading to a thesis.

The M.Tech programme also includes a unique 3-week period during the beginning of the programme called “Preparatory Semester.” The preparatory semester is intended to give uniform background to all the students irrespective of their technical background. This semester covers introductory programming, and principles of electronics. After the 3-week preparatory term, the first semester of the M.Tech programme consists entirely of required “core” courses. These teach the new student the common foundational elements required, such as Analysis and design of CMOS Digital IC, CMOS Technology and CMOS Analog design, Maths for ESD, Operating Systems, and Embedded Systems. The second semester builds on this foundation with a core course on ESD principles and practices. In addition to doing the core courses, the student now has the freedom to begin focusing in one of two areas, namely:

System on Chip (SoC)	Embedded Systems
Semiconductor Device Physics Introduction to Nanoelectronics and MEMS/NEMS devices Low Power CMOS VLSI Static Timing Analysis and Digital Circuit Optimization High Level Synthesis and Optimization of Digital Circuits Testing and design for testability Deep submicron design issues Introduction to RF electronics Mixed-signal design Functional Verification of SoCs	Interdevice Communication Digital Signal Processing Cyber Physical Systems Real time systems- Design, Analysis and Verification Actuators, Sensors and Robotics Computer Vision Embedded Systems for healthcare Computational perception using multimodal sensors Machine learning Model based hardware-software co-synthesis of Embedded Systems Principles of multimedia and multimedia architecture Design and analysis of Embedded Software systems Principles of Intelligent systems Wireless sensor networks Embedded Software Verification and Validation Image signal processing

The following table summarizes the overall course structure of the M.Tech.

Semester	Course	Credits
Prep term (3 weeks)	Introductory Programming 1 (C programming)	0
	Principles of Electronics	0
Semester 1 (16 weeks)	Core Choice List (students have to choose courses from the list below) <i>Mathematics for ESD</i> <i>Analysis and Design of Digital ICs</i> <i>Analog CMOS VLSI Design</i> <i>Principles of Embedded System Design (2 credits) + Operating systems (2 credits)</i> <i>Data Structures and Algorithms</i>	16
Semester 2 (16 weeks)	Electives (students take at least 5 electives across SoC and Embedded Systems) <i>Across the second and third semesters, the students take at least five elective courses in their area of specialization and an additional three open elective courses (some of which may include research and other individual or group projects supervised by a faculty member).</i>	20
Semester 3 (16 weeks)		
Semester 4 (6 months)	Thesis / Internship <i>The final semester is designated for industry internship, or the writing and defense of a research thesis.</i>	16

Master of Science (Digital Society):

The M.Sc (Digital Society) is a 2-year full-time programme. It starts with a two week preparatory semester where students are introduced to various constructions of the digital society, involving multiple perspectives. It consists of a series of sessions, including lectures, readings, and audio-visual media to expose students to the foundational logic of the programme and its interdisciplinary underpinnings.

- **Over the next 3.5 terms, the students go through a series of core courses and electives** specifically designed for a heterogeneous student group to learn about and address various challenges of the digital society, which includes:
 - Designing and managing large-scale digital systems;
 - Designing interfaces for diverse populations;
 - Socio-historical aspects of the “digital”;
 - Policy and regulatory issues in the contemporary digital society;
 - Quantitative and qualitative research methods, tools, and techniques, to examine user needs and outcomes, and to evaluate the impact of ICTs;
 - Technologies such as cloud or mobile platforms, data analytics, social media, human-computer interaction, and spatial-information systems; and
 - Domain-specific understanding of the technology-society interface, including issues pertaining to education, governance, gender, identity, poverty, and public health.
- **The curriculum also encourages project-based learning involving** small-group projects to address challenges of the digital society by applying learnings from the courses. Projects are integrated within individual

course designs; the students are also required to take a mandatory project elective during the summer term at the end of the first year. In the final term, the students are required to take up internship in an external organization or work on a thesis with a faculty member.

The curriculum structure for M.Sc. (Digital Society) is as follows:

Preparatory Term (2 weeks, 1 course, 2 credits)
Introduction to Digital Societies (Pass/No Pass)
Term 1 (16 weeks, 5 core courses, 18 credits)
Digital Components of a Connected Society (4) Interface Design for Diverse Populations (4) Technology and Society (4) Quantitative Methods (3) Qualitative Methods (3)
Term 2 (16 weeks, 3 core courses, 1 elective, 16 credits)
Engineering and Management of Large Digital Systems (4) The Digital and Its Discontents (4) Information and Communication Technology Policy and Regulation (4) Elective I (4)
Summer Term (8 weeks, 2 core courses, 6 credits)
Information Management (2) Project Elective (4)
Term 3 (16 weeks, 4 elective courses+1 seminar, 18 credits)
Elective II, III, IV & V (4x4) Seminar (2)
Term 4 (26 weeks, 16 credits)
Thesis/Internship (16)
Total Credits 76

Research Degree Programmes (Doctor of Philosophy and Master of Science by Research)

At IITB, the research is broadly organized into seven research domains. These research domains are used for administrative management of the research degree programmes, namely, the Doctor of Philosophy (PHD) and the Master of Science by Research (MSR). A student admitted to any of the research degree programmes is also referred to as a research scholar. A research scholar chooses a research domain and relevant research topics, for the admission process, and the corresponding thesis supervisor(s) is allocated to the student. Thereafter the research scholar undertakes coursework required for preparing for research in the chosen research domain. Once the coursework is completed, the student undertakes research work leading to original research outputs (publications, patents, etc.), which will culminate in a thesis.

For MSR students, upon successful completion of writing of the thesis and subsequent oral examination, the student will be granted a MASTER OF SCIENCE by Research in I.T. degree.

For PHD students, after coursework is completed, the student takes the comprehensive examination, state-of-the-art seminar and open seminar, as various academic milestones through the program. On successful completion of the comprehensive examination, the student advances to candidacy which is required for continuing in the programme. These administrative milestones run parallel to the research work undertaken by the student, which also leads to original research outputs and culminates in a thesis. The student writes thesis upon successful completion of the aforementioned academic milestones. Similar to MSR students, the PHD students then take the oral examination and complete requirements for the PHD program. The student will be granted a DOCTOR OF PHILOSOPHY degree.

Academic Infrastructure



The infrastructure for IITB's fully networked campus consists of a high-speed fiber-optic backbone connected to the internal network through a high-end gigabit Ethernet switch. Dedicated network equipment includes printers, scanners, and other equipment. Connectivity in the campus is established at two levels. First, the local intranet implements a "virtual classroom," where all the visual material, such as presentation slides used by professors in class, is made available electronically

to students. All assignments and projects are announced and submitted online. The intranet also enables knowledge sharing among students.

At the second level, 24x7 Internet access is available throughout campus, in both wired and wireless modes. IITB is one of the few institutions in India to have an active wireless LAN (and was the first to have this technology way back in 1999). Wireless-mode access is available throughout campus academic and hostel blocks using the 802.11b/g protocol. In addition, high-speed Ethernet ports are installed at various locations in the building, providing wired Internet access through a proxy web server.



All students use a Wi-Fi enabled laptop for their exclusive use. This ensures a student to machine ratio of better than 1:1, implying complete accessibility. Moreover, the institute has high end computational servers. The servers provide an in-house private cloud computing infrastructure through virtualization. This in turn allows for an individual approach to learning, providing the freedom to learn at one's own pace and focus on one's chosen domain of specialization.



The Institute has an academic library with an excellent collection of books, journals, and magazines both in print and electronic form. Students have privileged free access to numerous online research resources (such as the ACM Digital Library, IEEEExplore, JSTOR).

Electronics Systems Design Infrastructure

Infrastructure for Electronic Systems Design (ESD)

HiDes Laboratory

At the High Density Electronic Systems Lab at IIT-Bangalore, we focus on research and development in the area of high density and low dimensional electronics. Our area of research includes 3D electronics, magnetic logic devices, interconnects, and antennas. We focus on all aspects of Systems on Chip. HiDES is affiliated to Center of Electronics and Embedded systems lab ([CEEMS](#)) and Computational Sciences Lab ([CSL](#)) at IITB. It is well equipped and has the following equipment - **Agilent Parametric Analyzer, DC Probe stations, Carl Zeiss High resolution optical microscope, Makerbot 3D Printer**. It is also equipped with the following

Software Tools - Ansys HFSS, NI Multisim and Electric layout. Research students are working on several interesting projects listed below using the above infrastructure in conjunction with several startups in the IIIT Bangalore Incubation Centre.

1. Microfabrication of a 3D antenna by lithographic and self-assembly process
2. Electric current driven nanomagnetic logic device
3. Computer program generated music
4. Next wave for women safety

CEEMS Laboratory

This laboratory was established in IIIT Bangalore with funding from the Government of Karnataka as a recognition of the need for skilled manpower in the emerging area of smart systems under the broad area of Electronics and Embedded Systems in its Semiconductor Policy 2010 to enable research, education and training at IIITB which is well connected to the IT and ITES partners in India and globally. The mission of CEEMS laboratory is to foster excellence by nurturing talent and focusing on research in the areas of VLSI, embedded system design, Wireless Communications and Computer vision. It is well equipped with the following to meet this objective - FPGA Tools from Xilinx, Virtual Instrumentation tools, Wireless test bed for developing and testing communication systems, Labview and Matlab licenses, Computer vision experimentation platform, Microcontrollers, DSPs, Channel simulator, Spectrum Analyzer and Oscilloscopes, Battery testers and Solar array simulators, Wireless Sensor nodes, Digital Design Tools from Mentor Graphics. The following interesting projects have been carried out in the past by graduate and research students using the CEEMS lab facilities -

1. Electronics aid for the visually handicapped
2. Thought controlled human computer interface
3. Time critical protocols for wireless sensor networks
4. Car parking place locator application with wireless sensor networks

Research Domains

Research at IIT-Bangalore broadly covers topics, which may be categorized into the following seven domains:

- Computer Science
- Data Sciences
- Electronic Systems Design
- Information Technology & Society
- Mathematics & Basic Sciences
- Networking, Communication & Signal Processing
- Software Engineering

At IITB, we follow the notion of research labs and centers which is an abstraction of a particular theme/area. A research lab encompasses people, projects, physical facilities, and activities. A research center or a center of excellence is an abstraction either in terms of the broader set of research themes being followed or in terms of hierarchy of research activities. The following description of each research domain specifies the focus of research, faculty members involved, and the active labs and centers.

Computer Science

If Computer Science is about the use of computational techniques and thinking for solving problems, it stands to reason that computer science in turn can and must be applied to address the many critical problems of the 21st century, of which we may mention the need for smart machines and complex systems that can work with humans seamlessly and improve society as a whole, and sustainable development and usage of systems to make effective use of scarce and expensive resources such as energy. The tools and paradigms used to address such problems can themselves be new ones, other than merely the ones traditionally found in the repertoire of computer scientists. To this end, our work in the computer science research domain covers diverse topics dealing with theory as well as application areas, such as smart grids, supply chains and their optimization, algorithms, machine learning, cloud computing, dynamic modeling and control of servers, and renewable energy. With the tremendous rise in distributed computing applications, the issue of security and privacy in distributed applications has got tremendous attention from the research community in the past decade. A major theme of the cryptographic research at IITB is secure distributed computing, with emphasis on secure multi-party computation (MPC) and verifiable computation, both at the theoretical as well as applied level. While we strive to be rigorous and thorough in all our research, whether theoretical or applied, we are also aware of the multi-disciplinary context and significance of our work, and strive to address issues that are relevant to society in general and industry in particular. The focus of work in Computational Topology at IITB is towards using topological methods for improving visual representation and information extraction from scientific datasets.

Faculty Members

Prof. Amit Chattopadhyay, Prof. Ashish Choudhury, Prof. Meenakshi D'Souza, Prof. V. N. Muralidhara, Prof. Pradeesha Ashok, Prof. G. N. S. Prasanna, Prof. Sachit Rao, Prof. Shrisha Rao, Prof. G. Srinivasaraghavan.

Computational Sciences Laboratory (Prof. G. N. S. Prasanna)

CSL at IIT-B is interested broadly in the areas of Algorithms, Optimization, and Robotics. Major focus areas include:

1. Robust optimization under uncertainty, with applications to supply chains, real time search, banking, smart grid, transportation, gaming and allied areas. This work couples algorithms with information theory.
2. Approximation algorithms, machine learning, cryptography and linguistics.
3. Novel robot skeletons using generalized mechanisms, incorporating magnetics distributed throughout.
4. Algebraic number theory.
5. Electronic design automation including statistical timing analysis and optimization for digital circuits, power analysis and optimization and formal verification, semiconductor manufacturing, statistical optimization, combinatorial optimization, and design and analysis of algorithms.
6. Visualization (scientific and information), high-performance computing, computational geometry and topology.
7. Others, such as, various aspects of power line communication for AMR over low voltage power lines, which include channel modeling, transceiver design and MAC layer design.

Computing Systems Lab (Prof. Shrisha Rao)

This lab focuses on systems research, with a focus on contemporary issues such as virtualization, security, reliability, energy-aware computing, high-performance computing using multicore systems, and cloud computing. There are diverse architectures and operating systems in use, such as SPARC, Mac Minis running Mac OS X 10.6, Cell Broadband Engines on Sony PS3s running Yellow Dog Linux, dual-core 64-bit AMD Opterons running FreeBSD, Open SUSE, Open Solaris, and Windows 7/XP.

SNIA - IITB Laboratory (Prof. G. N. S. Prasanna)

IIT-Bangalore, in collaboration with the Storage Network Industry Association, hosts the SNIA IITB Lab, an inter-industry centre for training, education network and research in all aspect of storage technology. The centre functions as a model centre in this area for academics and industry in India and South Asia in general.

Data Sciences

The Data Sciences research domain focuses on all aspects of data management, processing, modeling, and information retrieval. The current areas of interest include: Database Design, Information Retrieval, Network Analysis, Mining Latent Semantics, Data Mining and Data Warehousing, Knowledge Representation and Reasoning, Linked Data and Semantic Web, NoSQL Databases, Stream Data Management, Multimedia Management using Control

Theory, Analytics, Graphics & Visualization, and GPU Computing, Applied Machine Learning, Computational Social Sciences, Computational Topology.

Faculty Members

Prof. Amit Chattopadhyay, Prof. Chandrashekar Ramanathan, Prof. Dinesh Babu Jayagopi, Prof. Jaya Sreevalsan Nair, Prof. Sachit Rao, Prof. Srinath Srinivasa, Prof. G. Srinivasaraghavan, Prof. T. K. Srikanth.

Computational Social Sciences Lab (Prof. Dinesh Babu Jayagopi)

This lab builds and validates computational models for understanding human interactive behavior, rooted in Social Psychology. These models not only contribute to the theories of human behavior perception, but are also used in applications that facilitate behavior training, and social media analysis; and enable human-robot interactions (HRI). Probabilistic graphical models form the backbone of the underlying formalism.

Document Engineering Lab (Prof. Chandrashekar Ramanathan)

Documents still constitute a significant content type in the enterprise today. Document Engineering deals with developing algorithms, techniques, tools and processes that help in creating and manipulating the content, format, and representation of documents. There are several challenges being addressed as part of Document Engineering. The DocEng lab explores the various standards and tools available in this space. Following are some of the projects from the Lab:

- Pralekhasaara (for interactive content chunking and assembling)
- ORCA (Online Repository for Content Assembly)
- DocuBhasha (translation of documents, supported by Microsoft Research)

Graphics-Computing-Visualization Laboratory (Prof. Jaya Sreevalsan Nair)

The Graphics-Computing-Visualization Laboratory (GVCL) at IIIT Bangalore works in the broad areas of graphics, visualization, and scientific computing. The GVCL is currently involved in projects related to three-dimensional visualization of LiDAR data, analytics work-flow visualization, small-world-network visualization, volume visualization, and GPU computing. The lab is funded by various projects from government agencies and the industry, namely, DST, Nvidia and EMC.

Information Convergence Lab (Prof. Chandrashekar Ramanathan)

The revolution of mobile phones made media convergence possible. Today we don't need separate devices for talking on the phone, listening to music, watching videos, surfing the Internet, reading/sending e-mails. Information convergence is a similar concept that is focused on interoperability of information scattered across multiple dimensions and multiple sources and destinations. The focus of the Information Convergence Lab (I-COG Lab) is to first identify and define various information convergence challenges that are relevant to the real world. The current focus of the lab is to start with a study of information convergence challenges specifically targeted at large enterprises and the government. Based on this understanding of the needs and contexts of information convergence, the lab will specify reusable frameworks that address these challenges in a unified and integrated environment. The focus would be to

develop standards-based solutions that can be applied widely.

Multimodal Perception Lab (Prof. Dinesh Babu Jayagopi)

The Multimodal Perception lab focuses on human-centered sensing and multimodal signal processing methods to observe, measure, and model human behavior. These methods are used in applications that facilitate behavioral training, and social media analysis; and enable human-robot interactions (HRI). The focus is mainly on vision and audio modalities. Probabilistic graphical models form the backbone of the underlying formalism.

Web Sciences Lab (Prof. Srinath Srinivasa)

The Web Sciences Lab (WSL) at IIT-B is focused on understanding the web in all its aspects. Research interests of the WSL include enabling technologies for the web, web-scale data management, web mining, network analysis and socio-cognitive models of web dynamics.

Center for Data Sciences

The Center for Data Sciences is a formal conglomeration of all the labs under the Data Sciences research domain, which takes care of overall activities at a higher hierarchical level of operation. This involves pooling in resources, conducting biannual student workshops, etc.

Electronic Systems Design

The Electronic Systems Design domain encompasses a broad range of topics covering several aspects of both, digital and analog hardware systems, implemented using FPGAs and custom fabricated VLSI circuits, design methodologies around EDA flows, verification and validation, and system prototyping; realization of real time embedded systems where both the hardware and the software components are treated agnostically based on end system requirements; embedded implementation of feedback control using varied sensors. Emphasis is also placed on emerging technologies based on Micro and Nano-electro mechanical devices – fabrication of 2D/3D structures, characterization and system applications. Topics of active research may be summarized as Model Based Hardware-Software Co-Synthesis of Reconfigurable Embedded Systems; Electronic Design Automation, especially timing optimization; CNT modelling for 3D integrated circuits; Wideband antenna design; RF Circuit Design; Implementation issues for feedback control; Analog-and-Mixed-Signal circuit design; Deterministic embedded systems implementation for applications in motion control.

Faculty Members

Prof. Chetan Parikh, Prof. Madhav Rao, Prof. Sachit Rao, Prof. Srinath Naidu, Prof. Subajit Sen, Prof. Subir K. Roy.

Center for Electronics and Embedded Systems

The Center for Electronics and Embedded Systems (CEEMS) Lab's objective is to nurture talent by focusing on Embedded Computing, Wireless Communication and Computer vision. Facilities available in the lab will enable world class research and education and will be seen as an extension of the strong Information Technology (IT) Core competence already available at IITB. CEEMS Lab collaborates with public and private organizations to do research and development in the emerging areas of embedded systems to bridge the gap between academia output and industry requirements thus providing every learner an equal opportunity to become industry ready.

CEEMS lab is funded by the government of Karnataka.

Electronic System Design and Manufacturing Lab (Prof. Madhav Rao)

Electronic system design and manufacturing (ESDM) lab is sponsored by Government of Karnataka. The lab involves design and limited fabrication facilities to develop interconnects, wiring, and micro-scale soldering. State of art optical microscope which is used to capture high resolution images of around 1 micron. The design facilities includes mentograhics commercial software, electric MOSIS compatible open source software, and Matlab software. The lab includes semiconductor characterization facilities and 3D printer. Currently research projects such as nanomagnetic logic gates in collaboration with IIT-Bombay, 3-D high frequency antenna in collaboration with IISc is in progress. The lab will be used for Graduate students enrolled for IC design and fabrication course taught in Spring semester.

High Density Electronics System Lab (Prof. Madhav Rao)

HIDES lab is a part of CEEMS project sponsored by Government of Karnataka. The lab is extensively used by undergraduates (IMTECH) students for their basic electronics laboratory course and physics course. IMTech students build various analog circuits, digital circuits, and sequential circuits. High end Oscilloscopes, function generators, power supplies are available to test the circuits. The lab activities include various projects derived from Arduino controller. Graduate students use this lab to perform research experiments using ABB commercial robot. HFSS, commercial electromagnetic software to design high frequency antenna is also available in the lab.

Information Technology & Society

The Information Technology and Society research domain at IITB is broadly concerned with the social role of information and communications technologies (ICTs) with a focus on the policy challenges and the institutional demands posed by technological change. Teaching and research in the stream focuses on three inter-related areas. First, it seeks to understand innovation and the organization of production in the ICT industry, or how, why and where ICTs are produced. A second area of interest is in how ICTs can be used to harness the legitimacy and the powers of bureaucracies and markets to address needs in different social domains. Of special interest are the domains of governance, education, health and manufacturing. A third area is the tools and analytical techniques that can be deployed to understand the production and consumption of ICTs. These include geographical information systems, modeling, simulation and visualization. The domain encourages inter-disciplinary research and has associated faculty members with expertise in social sciences, including in economics, economic geography, sociology, development, management, governance and public administration.

Faculty Members

Prof. Amit Prakash, Prof. Balaji Parthasarathy, Prof. Bidisha Chaudhari, Prof. Janaki Srinivasan, Prof. Preeti Mudliar, Prof. S. Rajagopalan, Prof. V. Sridhar.

Centre for Information Technology and Public Policy

The Centre for Information Technology and Public Policy (CITAPP) at IIT Bangalore is an interdisciplinary think-tank set-up to focus on the policy challenges and the organizational demands made by technological innovation. Of particular interest to the Centre is how technological advances along with institutional changes, that harness the legitimacy and the powers of bureaucracies and market, address the needs of underserved communities. It seeks to provide a means to nurture and transform public policy through the use of Information and Communication Technologies (ICTs) by engaging with academic faculty and researchers, policy planners, political leaders and community representatives, technology vendors, public officials and civil society organisations. The Centre brings together best-practices demonstrating the power of ICTs and analytical tools for information management, modelling, and forecasting. It engages in research and evaluation studies of topics where ICTs and public interest intersect.

Center for Spatial Information Sciences (Prof. S Rajagopalan)

The Center for Spatial Information Sciences (CSIS) at IIT Bangalore was established in October 2006. The centre carries out basic and applied research in Geographic Information Sciences Domain, like Geographic Information Retrieval. GIR can be considered as a specialization of Information Retrieval, it takes into account the spatial and Object Oriented Spatial Databases; Geographic Ontology- the study of geographic objects and the relationship between them and sensor maps.

Mathematics & Basic Sciences

The research at IITB in Chemistry, Mathematics and Physics are given here.

In **CHEMISTRY**, the research at IITB primarily is in the area of electronic structure calculations. Particularly, weak interactions (π - π , CH- π etc.) present in various systems (small model systems, protein-ligand systems, DNA bases, nanotubes etc.) are investigated using quantum chemical methods (HF, MP2, CCSD(T) & DFT). Additionally, the work entails unravelling the role of such weak interactions in the field of drug-design, polymers, nano-devices and in new materials. Some of the recent research works show that π - π and CH- π interactions are invariably present in the crystal structures of bio-molecules and play important role in their structure as well as functions.

Faculty Members

Prof. Brijesh Kumar Mishra.

Research in **MATHEMATICS** is principally in the area of Number Theory; in particular, Algebraic Number Theory, Galois Representations, Modular Forms, Iwasawa Theory. Diophantine Equations, Galois Module structure and

Elliptic curves. Research is also conducted in the fields of Algebraic Complexity Theory and Cryptography. The following two problems are representative of the mathematics research in IITB: Let E be an elliptic curve over number field K . For every prime P where E has good reduction at P , we get one imaginary quadratic field associated to E . We are trying to see if we can get all imaginary quadratic fields by this procedure?

Faculty Members

Prof. Manisha Kulkarni.

In **PHYSICS**, there are two sub-domains of research focus at IITB: (a) One sub-domain of research focus is on soft condensed matter physics, complex systems & dynamical systems theory, instabilities & synchronization in nonlinear systems (both physical and biological), and macromolecular systems. Topics include bubble dynamics & cavitation, vesicular nanotubulation, polyelectrolytic solutions, combustion, phase transitions in computationally hard problems, models of sensory systems, precipitation phenomena, etc.; (b) The other sub-domain of physics research is in computational fluid mechanics, especially simulations & modeling of hydrodynamic and magnetohydrodynamic turbulent flows, reduced resistive MHD simulations, low resolution simulations of 3D-HD and MHD turbulent flows including rotation & helical forcing and 3D-anelastic HD and MHD code.

Faculty Members

Prof. Balakrishnan Ashok, Prof. Shiva Kumar Malapaka.

Center for Complex Systems & Soft Matter Physics (Prof. B Ashok)

The principal areas of research in physics at IITB at the Centre for Complex Systems & Soft Matter Physics are theoretical soft condensed matter physics, complex systems and dynamical systems theory, with studies of instabilities and synchronization in nonlinear systems (both physical and biological), and polymeric and micellar systems. Problems include modelling nonlinear oscillations of a charged microbubble under ultrasound and the enhancement of the temperature in the gas bubble, dynamics of intermittent force fluctuations in vesicular nanotubulation, studies of synchronization phenomena & instabilities in nonlinear systems, dynamic properties of polyelectrolyte solutions, combustion, phase transitions in computationally hard problems, models of sensory systems, modelling of precipitation phenomena, etc.

Networking, Communication & Signal Processing

The Networking, Communication and Signal Processing research domain focuses on all aspects of networking, communications, and signal processing. The current topics of interest are: Computer networks, Network security, Wireless communication, Signal processing, Medical signal processing, Computer vision, Control of unmanned systems using image processing and computer vision.

Faculty Members

Prof. Debabrata Das, Prof. Dinesh Babu Jayagopi, Prof. Jyotsna Bapat, Prof. Neelam Sinha,
Prof. Sachit Rao, Prof. Tricha Anjali.

Mobile Computing and IMS Innovation Lab (Prof. Debabrata Das)

In this lab the projects are sponsored by HP and Nokia. The R&D focus on video and audio streaming including handheld devices, as also Video Media Platform, Charging , Service Delivery in IMS using Application Servers, XDMS, HSS and Presence servers. Moreover, this lab addresses issues related to quality of service modeling in IMS architecture with respect to differential traffic.

Multimodal Signal Processing Lab (Prof. Dinesh Babu Jayagopi)

This lab focuses on human-centered sensing and multimodal signal processing methods to observe, measure, and model human behavior. These methods are used in applications that facilitate behavioral training, and social media analysis; and enable human-robot interactions (HRI). The focus is mainly on vision and audio modalities. Probabilistic graphical models form the backbone of the underlying formalism.

Networking and Communication Lab – NCL (Prof. Debabrata Das)

This lab has received funding from Intel, CISCO, Microsoft and Ministry of Electronics and Information Technology – Government of India. The lab focuses on research involving networking standards and technology. Current research work concentrates upon latest broadband wireless access technology – Broadband Wireless medium access control (MAC) and QoS, Power saving in mobile devices and base station, WiMAX/LTE. Major areas of work include, , media independent handover (MIH). The research students are funded by above projects and also Microsoft Research India and TCS Research Ph.D fellowship. www.iitb.ac.in/ncl

Wireless Sensor Network (WSN) Lab (Prof. Jyotsna Bapat)

This lab has received funding from DeitY, GoI, Cognizant, GoK. The work done on Machine to machine (M2M) communication is going to be one of the major areas of R&D in networking and communication specialization. M2M faces multiple challenges and some of the major issues related to efficient communication between sensors, protocols, power saving in sensor, cognitive radio, etc. In IITB we have a WSN lab which supports multiple R&D projects on sensor networks. This lab has been sponsored by Govt. of Karnataka for development in embedded systems.

Software Engineering

Software engineering (SE) brings together interesting avenues of both fundamental and applied research contributing to the broad spectrum of activities involved in the creation of large, complex, industrial strength software systems having high quality, dependability and within reasonable resources. The current research covers a wide variety of areas ranging from empirical to formal aspects of SE. At IITB, the research in SE covers both upstream (requirement and design) and downstream (testing and maintenance) SDLC activities cutting across a variety of application domains (enterprise, embedded etc). Here is a list of some of the broad areas in which our faculty members are working: Pattern oriented software engineering, software architecture, distributed software engineering, model driven

software engineering (MDSE), software testing, verification and validation (V&V) of web-services and V&V of embedded software (cyber-physical systems and adaptive systems) among others.

Faculty Members

Prof. Chandrashekar Ramanathan, Prof. K. V. Dinesha, Prof. L. T. Jayprakash, Prof. Meenakshi D'Souza, Prof. Sujit Kumar Chakrabarti.

Software Design Laboratory (Prof. K. V. Dinesha)

The research focus here is on the design and architecture of software. Design patterns approach for the software development process is studied, with special emphasis on the impacts of design principals and patterns on the flexibility as one of the prime focus.

Software Engineering Laboratory (Profs. Meenakshi D' Souza, Sujit Kumar Chakrabarti, S. Ramesh)

Primary research focus of SE lab at IITB is on formal aspects of software engineering. Current projects that we are working on involve :

- architecture analysis, testing, verification and program analysis for embedded software,
- verification and validation of web software, and
- software testing.

The aim of the lab is to expand the scope to include all aspects of software engineering, from requirements and design to testing and verification. Software specification and programming languages are two areas under consideration for exploring.

Centers of Excellence

Time to time, IITB focuses on contemporary topics for research and development and commits to building centers of excellence to facilitate intra- and inter-institutional activities. Currently, IITB is driving its efforts in the area of enabling IT in healthcare.

E-Health Research Center (Profs. T. K. Srikanth, Amit Prakash, Jaya Sreevalsan Nair)

The IT sector has played a significant part in the Indian economic growth --- India is at a leadership position with a share of 55 percent in the global market for IT sourcing. IT is becoming a general purpose technology with its use permeating into individual and social life. According to the recently released UN Millennium Development Goals 2015 report, India continues to be categorized as making slow progress on most of the health and nutrition related indicators including maternal mortality, infant mortality and basic sanitation.

The **E-Health Research Centre (EHRC) @ IITB**, seeks to address this incongruity through cutting-edge research on the use of information and communication technologies for meeting the healthcare needs of the under-served and marginal population groups in India and similar regions across the world, with a focus on affordability, accessibility and availability of technology solutions covering [medical] devices, [health] data, and delivery [platforms and models].

Tuition, Aid & Scholarships

Programme	Fee per semester in 2016-17 (INR)	Fee per semester in 2017-18 (INR)	Fee per semester in 2018-19 (INR)	Fee per semester in 2019-20 (INR)	Fee per semester in 2020-21 (INR)
iM.Tech 2016 Batch	108000	108000	128000	128000	154000
M.Tech 2016 Batch	108000	108000			
M.Sc 2016 Batch	108000	108000			
Master of Science by Research & Ph.D.	One third of the fee payable by iMTech (as per the year of joining) in each semester till thesis submission				

In addition, residential students pay hostel rentals (Rs. 4500 per month currently), amenities charges and food expense. Other costs for books and supplies, travel, purchase of a laptop, etc., need to be factored by students depending on their individual circumstances.

Most M.Tech and Integrated M.Tech students receive bank loans at fairly generous terms that cover all their costs. About 25% of the students are eligible for merit-based, industry-sponsored scholarships. Teaching assistantship opportunities, which provide a financial incentive besides valuable experience for future careers, are available to senior M.Tech students based on their academic performances in the first year. Students can also apply for various central sector scholarships.

Employed students who undertake studies at IITB are expected to cover their own costs, including tuition. Many such students are sponsored by their employers.

Scholarships for Master of Science by Research and Ph.D. Students

For full-time Master of Science by Research/ Master of Science (Research) students, a fellowship of INR 12,000/- per month is available. (Note: The fellowship amount is subject to change and will be updated)

For full-time Doctor of Philosophy students, a fellowship of INR 25,000/- per month is available. (Note: The fellowship amount is subject to change and will be updated)

Scholarships for M.Tech Students

The Institute has offered about 11 scholarships (out of about 160 students admitted in 2014) to meritorious students joining the M.Tech programme. In addition, about 50 GATE-qualified students have obtained fellowships from AICTE. The institute expects to students to obtain a similar number of scholarships and fellowships in 2015 as well (across IT and ESD programmes). The scholarship amount covers almost all student expenses over the duration of their M. Tech. The selection for institute scholarships is carried out by the industry representatives along with IITB faculty.

2015-16 scholarship sponsors include; Infosys, ABB, and SocGen. IITB is constantly working with Industry to bring in more scholarships. Similar scholarship schemes are planned to be extended for Integrated M.Tech students as well in the future.

Scholarships for iM.Tech Students

IITB offers limited scholarships in two categories for Integrated M.Tech students: merit based and need based. The scholarships are awarded for one year and may be renewed based on the students' academic performance. The need based scholarships cover the tuition in its entirety (full scholarship) or partially (half scholarship) along with a monthly stipend. The merit based scholarships offer a monthly stipend.

Internship

For M. Tech. students, the Institute's internship programme gives the students an opportunity to get hands-on exposure in real-world projects as part of the final semester. Many of the companies that participate in the final Placement Programme also participate in the Internship Programme. This allows students to spend one whole semester in the industry working on live projects prior to graduation. The companies provide students with stipends for the duration of the internship and also the opportunity to work with their teams, at their premises, on challenging real-life projects. The internship programme is an avenue for placement, as many interns who perform well are given job offers by the companies they work for in the final semester.

In addition to the industry-sponsored internships based out of India, there is also an opportunity to do research and project work at many foreign universities with which IITB has signed a Memorandum of Understanding (MoU). Some of the universities to which students have gone for internship in 2013 are HOF university of Applied sciences, Germany, Freie Universitat Berlin, Germany, The University of Nottingham, UK and University Of West Indies.

Some of our students have also gone to National University of Singapore as Research Assistants during their internship tenure. The internship includes financial aid to cover travel and living expenses during the course of internship.

Integrated M. Tech. students will be pursuing a summer internship at the end of third year. This will provide them with an exposure to work on industrial projects.

Placements

The Institute has a strong placement programme that has achieved 100% placement of all its graduates. The graduates have found challenging assignments with several multinational and Indian giants of the IT industry. A broad-based curriculum coupled with strong bonds with the industry ensures that the students are equipped with the right skills to be highly productive and ready to take on real-world IT challenges when they graduate.

IITB has enjoyed excellent placement for all the twelve batches of M.Tech students who have graduated so far. Of the 1556 alumni, a few have gone for doctoral studies at MIT, UC Berkeley, Indiana University, University of Washington and Syracuse University in USA, Paderborn and University of Kaiserslautern in Germany, Trento in Italy, National University of Singapore in Singapore, IITB and BITS Pilani in India. The rest have taken up positions in a spectrum of firms that represent established IT giants to exciting new start-ups. The list of firms where IITB students are placed include:

Accenture Labs • ABB • Accolite • Airvana Networks • Amazon • Amex • Azul Systems • Cerner • Cisco • Citi • CommonFloor • DataWeave • DreamWorks • EMC • EduSoft • Fiberlink • Flipkart • Funds India • GE Healthcare • Hagggle • HSBC • IBM • InfoEdge • Informatica • Infosys • Intalio • Intel • Intergraph • Just Eat • Kodiak • Ma Foi • Markettelligent • Meridium • Morgan Stanley • Mu Sigma • Nalaasha Solutions • NetApp • NXP Semiconductors • Oracle • Qualcomm • RedMed • RealBridge • Samsung • Siemens • Srishti ESDM • Synopsys • Texas Instruments • TCS R&D • Thorogood • Velankani Group • VMWare • Xerox

Academic Outreach Activities

IITB exposes its students to the industrial outlook through a multitude of conferences, workshops and other events. Some major outreach activities at IITB in 2013:

- The students of our Institute continued to be blessed with a 100% placement record
- Several new companies, such as VM Ware, DreamWorks, Amazon, Cerner, Texas Instruments, etc., apart from the regular ones, recruited from our campus
- Cisco, Intel, IBM, Infosys, Fiberlink, American Express, and others recruited from our campus and continued to show their confidence with our students
- A number of our industry partners visited the campus for delivering guest lectures. Such sessions gave an opportunity for our students to interact with senior industry executives.
- Companies such as Cisco and ABB invited our students for a visit to their facility, to give them a feel for cutting edge lab infrastructure in the country.
- Leading companies such as IBM invited our students and entrepreneurs to participate in their webcast series on topics of current and emerging technology trends.
- Our alumni have now reached a figure of around 1500, a critical mass to bond together and make a difference to their professional growth and academic connect.
- The first elected Alumni Association Council took office, with Naveen Goudar as its President. Dr Das advises the alumni as the faculty in charge of alumni affairs.
- The alumni council drew up its charter and developed a 3 year plan. The Alumni Day was celebrated with the first of the 'Star Lecture' series, delivered by Mr. Ashok Soota, the Chairman of Happiest Minds, and an industry statesman. The second Star Lecture was addressed by noted entrepreneur, Mr. Madan Padaki.
- To enable students and working professionals to upgrade their skills continuously, IITB is planning a series of courses in emerging, high growth technologies.
- The first Certificate course in Business Analytics was conducted at the Institute premises. It was a weekend program to enable working professionals to leverage this opportunity.
- The Institute recognizes that it needs to play an important role in the development of entrepreneurship, especially around development of IT products. Towards this objective, a discovery workshop was conducted with the participation of senior corporate leaders, and their suggestions and ideas were sought as to how our Institute could contribute to the growth of product related entrepreneurship.
- This was followed by a course on 'product engineering and innovation' in collaboration with industry practitioners, for the benefit of IITB alumni and incubated companies.
- An approach paper was developed to establish a Centre of excellence in 'IT for SMEs'. This approach was discussed with GIZ / Ministry of SME for potential collaboration.
- The IITB Innovation Centre continues to be an incubation centre that attracts IT entrepreneurs who are at an idea stage, for the value of the technology ecosystem that it offers.
- Prof. Kumar from IIMB and Mr. C S Murali from IISc joined the Board of the Innovation Centre as independent Directors.
- Bulk of the funding from the TIDE scheme of the Dept of Electronics and IT has been invested in IT startups. Two news companies – Hudooku and Srishti ESDM – were accepted into the incubation centre.

The companies that are currently being incubated at the IITB Innovation Centre are:

- **Kenapps** – Cloud based solution for educational institutions
- **Redmed** – low cost, non-invasive medical diagnostic device
- **Chipmonk** – smart energy meters
- **Kollabia** – online collaboration of music
- **Srishti ESDM** – solutions for inclusive banking
- **Hudooku** – search and direct connect social media solution

The 1st Batch of companies that are currently in the I-MACX (IoT –to- Mobility Apps for Community Excellence) Accelerator Program are:

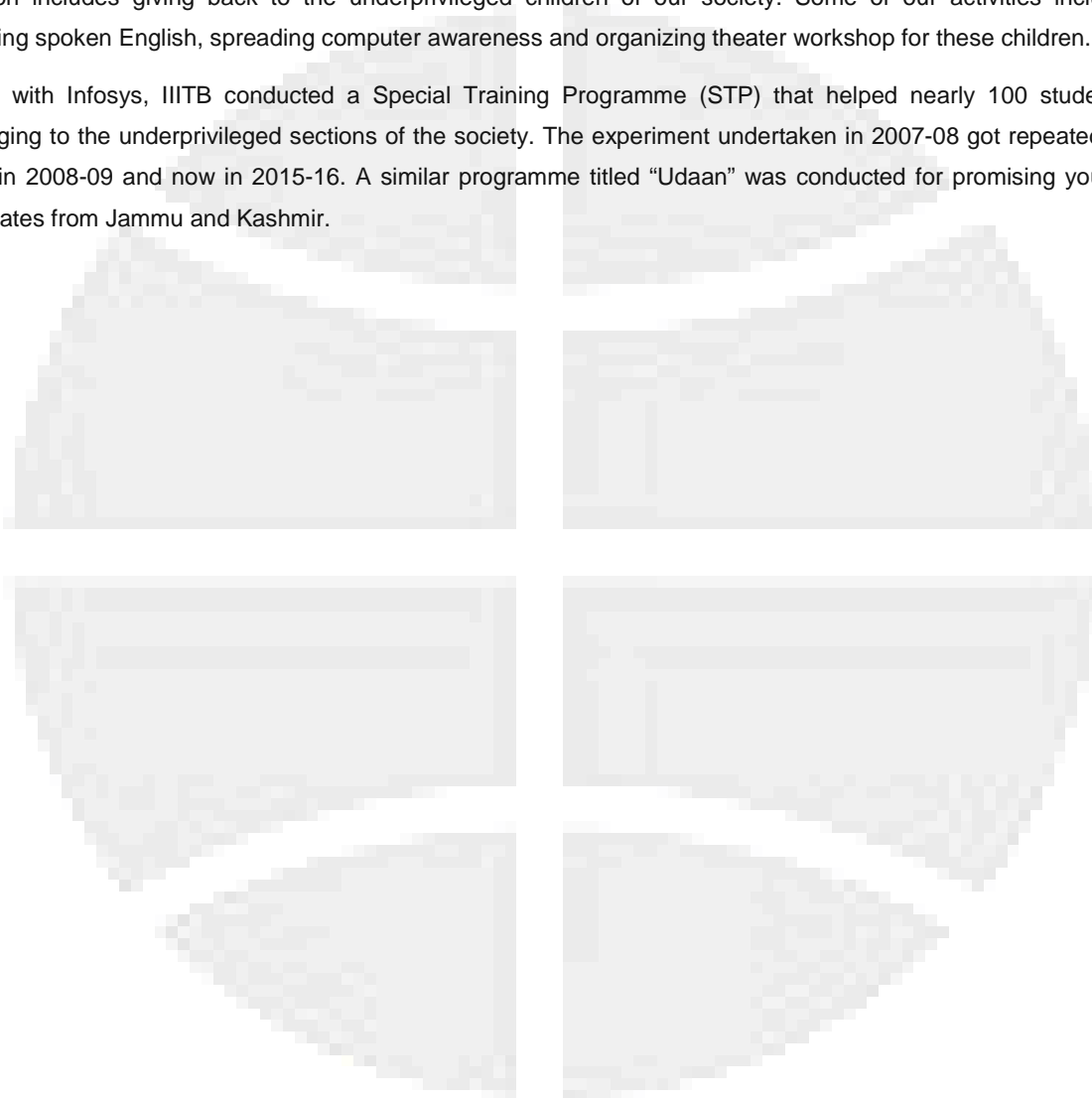
- **Tradedoot** - Marketplace for agriculture / EXIM pricing / other information
- **EasyM2M** - An enterprise grade wearable device for identifying "man down" and other such emergency scenarios
- **OnlineRTI** - A facilitator for filing and receiving replies under the RTI act
- **AbSimpl** - A chromecast-like device and associated software that facilitates consumption of education / healthcare video content on TVs
- **QueryHome** - A platform that enables interaction between both citizens / customers and employees with the enterprise / government
- **Clytics** - An Energy-analytics firm that aims to offer a "personalized recommendation" on your electricity consumption (more on the lines of a personalized telephone bill - with detailed breakup and recommendations)
- **MyPhotoBiography** - A mobile app that helps Doctors / Nurses track the progress of pregnancy and child growth

Social & Cultural Activities

IITB organizes intra-collegiate sports fest, “Spandan”. Students and alumni participate in the fest. Spandan includes events like cricket, badminton, volley ball, football, carroms, chess, online gaming contests and so on.

IITB understands its social responsibility and has its students working for it under the name AIKYAM. Our mission includes giving back to the underprivileged children of our society. Some of our activities include teaching spoken English, spreading computer awareness and organizing theater workshop for these children.

Along with Infosys, IITB conducted a Special Training Programme (STP) that helped nearly 100 students belonging to the underprivileged sections of the society. The experiment undertaken in 2007-08 got repeated at IITB in 2008-09 and now in 2015-16. A similar programme titled “Udaan” was conducted for promising young graduates from Jammu and Kashmir.



Admissions

Integrated M.Tech.

Applicable for both iMTech (ECE) and iMTech (CSE)

Eligibility

Minimum Requirements

The minimum qualification for admission to the Integrated M.Tech. programme at IITB is a first-class in 10 + 2 (or equivalent) with Mathematics as one of the subjects. Students expecting to complete the minimum requirement by August 2014 may also apply. The detailed list of qualifying examinations is given below.

DETAILED LIST OF QUALIFYING EXAMINATIONS

1. The +2 level examination in the 10+2 pattern of examination of any recognized Central/State Board of Secondary Examination, such as Central Board of Secondary Education, New Delhi, and Council for Indian School Certificate Examination, New Delhi
2. Intermediate or two-year Pre-University Examination conducted by a recognized Board/University.
3. Final Examination of the two-year course of the Joint Services Wing of the National Defence Academy.
4. Any Public School/Board/University Examination in India or in foreign countries recognized by the Association of Indian Universities or any state or central government as equivalent to 10+2 system.
5. H.S.C. Vocational Examination.
6. Senior Secondary School Examination conducted by the National Institute Open Schooling (NIOS) with a minimum of five subjects.
7. 3 or 4-year diploma recognized by AICTE or a State Board of Technical Education.

The applicant must have taken Mathematics as one of the subjects in the above qualifying examination.

All the candidates must secure at least 60% marks in aggregate in qualifying examination. The percentage of marks awarded by the Board will be treated as final. If the Board does not award the percentage of marks, it will be calculated based on the marks obtained in all subjects listed in the mark sheet. If any Board awards only letter grades without providing an equivalent percentage of marks on the grade sheet, the candidate should obtain a certificate from the Board specifying the equivalent marks, and submit it at the time of counseling / admission. In case such a certificate is not provided, the decision taken by the IITB Admissions Committee shall be final.

Selection Procedure

Admissions to the Integrated M.Tech. programme is solely on the basis of score of Paper-I of JEE (Main) announced under the Joint Entrance Examination JEE (Main) - 2015, conducted by CENTRAL BOARD OF SECONDARY EDUCATION. Applicants must enter the requisite details in the online application form.

There is no fixed cut-off of JEE (Main) Score in Paper 1 for admissions to the iMTech programme. In 2015, admission

offers were made up to JEE score CSE:185 and ECE:168. The JEE Score cut-off for 2016 will vary depending upon the actual applications received.

iMTech – Important Dates

Online Applications	
Online applications open	May 4, 2016
Last date for receiving online applications	May 28, 2016
Selection and Joining	
Notification of selected candidate on the candidate portal <i>(to be checked by the candidates by signing in to the portal)</i>	June 3, 2016
Remittance of acceptance fee	As noted in offer letter
Joining date for the new batch	July 29, 2016
Induction and course registration	July 29 – 31, 2016
Classes begin	August 1, 2016

The details provided in this section is applicable for both iMTech (CSE) and iMTech (ECE).

Master of Technology (IT) and (ESD)

Eligibility

Minimum Requirements

The minimum qualification for admission to any of M.Tech. at IITB is 65% in four-year bachelor's degree in engineering (i.e. B.E., B.Tech., or equivalent). First class degree holders in 3-year undergraduate programmes followed by MSc with first class in any of the physical sciences, or an MCA degree with first class, can also apply. Final-year students expecting to graduate by August 2016 may also apply.

Selection Procedure

Admissions to the M.Tech. programme is on the basis of performance in the GATE examination. GATE scores (valid as of June 1, 2016) from the following disciplines will be considered for this purpose.

GATE subjects for M.Tech. (IT)	GATE subjects for M.Tech. (ESD)
CS - Computer Science and IT	EC - Electronics and Communication
EC - Electronics and Communication	IN - Instrumentation Engineering
EE - Electrical Engineering	

There is no fixed cut-off of GATE scores for admissions. In 2015, M.Tech. (IT) admission offers were made upto GATE score of 600 for M.Tech (IT) admissions and 620 for M.Tech. (ESD) admissions. The GATE score cut-off for 2016 will vary depending upon the actual applications received.

International Students

Foreign nationals (FNs) and non-resident Indians (NRIs) who have an 4-year undergraduate engineering degree in computing-related branches (CS, EE, EC) are welcome to apply for the M.Tech. programme. Such applicants can apply with valid GRE and TOEFL scores. Only those students whose undergraduate education was in an Anglophone country (i.e. Australia, Canada, New Zealand, Singapore, UK, and the US) are exempt from TOEFL. Shortlisted FNs and NRIs applicants have to go through an online interview. If you wish to apply as a Foreign National, please send e-mail to admissions-mtech@iiitb.ac.in with details for further instructions.

Working Professionals

Working professionals applying for the M.Tech. programme must get leave for the duration of the M.Tech. programme. Such applicants have to submit a letter, during the admission, from a supervisor or other authorized representative of the employer stating that there is no objection to the applicant's joining IITB as a student. Working students will also need sponsorship from the employer, or obtain support from other sources to meet their costs, as scholarships and other financial support are not available to working students.

How to Apply?

You can apply online for the M.Tech. programme. The link for online application will be available in the website from March 20, 2016 onwards.

Candidates who apply for M.Tech. will be automatically considered for both M.Tech. (IT) and M.Tech. (ESD) programmes based on the eligibility. Applicants need NOT apply separately. . The branch for which admission offer is made (whether IT or ESD or both) will be mentioned in the offer of admission based on the GATE Score of the candidate and also availability of seats.

All applicants need to pay a non-refundable application fee of INR 1000/-.

Important Dates for Master of Technology (both IT and ESD)

Online Applications	
Online application available	March 22, 2016
Last date for applying online and paying application fee	April 30, 2016
Selection and Joining	
Notification of selection	May 6, 2016
Remittance of acceptance fee	As noted in offer letter
Remittance of balance fee (Term I, hostel, etc.)	July 8, 2016
Joining date for new batch	July 8, 2016
Classes begin	July 11, 2016

Master of Science (Digital Society)

Recognizing the socio-economic potential of ICTs, and the increasing need to train professionals in harnessing this potential, IIIT-B offers a unique and innovative two-year Masters Programme for the Digital Society.

Eligibility

Minimum Requirements

An under-graduate degree (of at least 3 years duration) in any discipline with a first division/class from a recognised University. Those expecting to graduate by 1st August 2016 may also apply. Prior certification of computer application/ programming from a recognised institute (an added advantage, but not mandatory).

Relevant work experience (an added advantage, but not mandatory).

Selection Procedure

Selection for the programme is on the basis of an entrance examination that will be conducted by IIITB followed by a personal interview to be held at IIITB campus. The entrance examination will test numerical/quantitative, analytical, and verbal abilities, as well as design, social, and information technology awareness. Further details about the entrance examination along with sample questions will be made available in the admissions website.

Important Dates for Master of Science (Digital Society)

Online Applications	
Online applications open	January 22, 2016
Last date for applying online	March 15, 2016
Entrance exam and personal interviews	March 27 & 28, 2016
Selection and Joining	
Notification of selection	April 10, 2016
Remittance of acceptance fee	As noted in offer letter
Remittance of balance fee (Term I, hostel, etc.)	May 31, 2016
Joining date for new batch	July 15, 2016
Classes begin	July 18, 2016

Master of Science by Research & Doctor of Philosophy

Admissions to the Master of Science by Research and Ph.D. degree programmes are based on the openings in the research domains. At IITB, there are seven research domains, openings are published for both the degree programs, except for Mathematics & Basic Sciences, which does not have a Master of Science by Research option.

The following table lists the research domains for which there are openings for research scholars to be admitted in January 2017. *Below-mentioned openings are applicable to both full-time and part-time registrations..*

Research Domain [Programmes with openings]	Indicative Research Areas
Computer Science (CS) [PHD, MSR]	Cryptography, Geometric algorithms, Certified geometric computing for shape analysis, Microprocessor design, Control systems, Embedded systems and Robotics
Data Sciences (DS) [PHD, MSR]	Visualizing geometrical/topological features in multivariate data
Electronic Systems Design (ESD) [PHD, MSR]	Analog-and-Mixed-Signal Circuit Design; Deterministic embedded systems implementation for applications in motion control
IT & Society (ITS) [PHD]	ICT regulations and public policy, techno-economics of information network, ICT for development/health/education/agriculture, gender and ICTs, e-Governance for development, innovation systems in the ICT industry, ICT and work practices in organizations, urban systems, political economy of information, right to information in practice, digital groups and identities, governance analytics and toolkits, ICT and Health (specifically related to aspects concerning household data, community/frontline workers and the public health system), Open development, Social media
Mathematics & Basic Sciences (MBS) [PHD]	<p>Chemistry: Computational chemistry, electronic structure calculations, structure & energetics of van der Waals complexes</p> <p>Mathematics: Number theory; in particular, algebraic number theory, Diophantine equations, Galois module structure and elliptic curves</p> <p>Physics: Dynamical systems theory, complex systems and soft matter physics including complex fluids, cavitation & bubble dynamics, studies of instabilities & synchronization in nonlinear systems (both physical, biological, and polymeric systems); 3D simulations and modeling of Hydrodynamic and Magnetohydrodynamic turbulent flows (involving research in fundamental physics / astrophysics / mechanical engineering)</p>
Networking, Communications & Signal Processing (NCSP) [PHD]	IOT/5G Medium Access Control (MAC) protocols for QoS and energy saving
Software Engineering (SE) [PHD, MSR]	Requirement engineering; Testing; Reverse engineering; Verification and validation; Application of program analysis, model checking, and theorem proving in software analysis; Software architecture; Software engineering issues of web based, embedded, mobile systems, IoT.

In the case of part-time applications, applicants are requested to ensure that they can obtain appropriate IP clearance and No Objection Certificate from their employers for their academic work at IITB, well in advance.

Applicants to the MSR and PHD programs should **hold a Bachelors and Masters degree, respectively**, as well as have **good academic and technical track record**.

Eligibility Criteria

- For applicants to Computer Science, Data Sciences, Electronic Systems Design, Networking Communication & Signal Processing, and Software Engineering, a four-year Bachelors degree in engineering (B.E., B.Tech. or equivalent) and a Masters degree in engineering (M.E., M.Tech. or equivalent) are required for MSR and PHD programs, respectively.
- For Information Technology & Society, a Bachelors and a Masters degree in engineering, social sciences, medicine, or public health, are required for MSR and PHD programs, respectively.
- For applicants to PHD in Basic Sciences, namely, Physics and Chemistry, the minimum qualification required is an M.Sc. in Physics and Chemistry, respectively, or a Masters degree (Master of Science by Research., M.E., M.Tech. or equivalent) in related disciplines.
- For applicants to PHD in Mathematics, a Masters degree in engineering (M.Tech., M.E. or equivalent) or a Masters degree in Mathematics is required.

Other specific requirements as per each research domain are given below. Screening/ shortlisting shall be based on these requirements and other application details furnished by the applicant, followed by an interview at IITB. Candidates who successfully pass the interview round will be offered admission to the concerned program.

As an admission criterion placed for PHD degree by the University Grants Commission, we require applicants to take either a national entrance examination, as specified by concerned research domain, or a domain-specific entrance examination at IITB before appearing for the interview.

Computer Science

A valid GATE score is required for admission to both MSR and PHD programs.

Data Sciences

A valid GATE (Computer Science) score is recommended for applicants. Applicants to Data Sciences domain, without a valid GATE score or with low GATE scores, shall take a 45-minute written examination conducted by the faculty members of the domain.

Electronic Systems Design

Applicants to Electronic Systems Design domain shall take a written examination conducted by the faculty members of the domain. A valid GATE or GRE score is recommended for applicants, but is not mandatory.

Information Technology & Society

Candidates are encouraged to provide a valid score in GATE, JRF, NET, GRE, or GMAT examinations along with their applications. Those without such a score may apply as well. Shortlisted candidates may have to take a written examination at IIITB when called for interview.

Mathematics & Basic Sciences

Applicants to PHD in Chemistry, Mathematics, or Physics, should have appeared and qualified in one or more national entrance tests, namely, CSIR-UGC NET (for Chemistry/Mathematics/Physics applicants), UGC-NET (for Chemistry/Physics applicants), JEST (for Chemistry/Physics applicants), or NBHM (for Mathematics applicants). This requirement may be waived for candidates with a masters degree in engineering (M.E., M.Tech. or equivalent). A written examination may be conducted for shortlisted candidates when they come for interview.

Networking, Communications & Signal Processing

Applicants are encouraged to take GATE or GRE examination. Exceptional applicants without a GATE or GRE score shall take a written examination at IIITB.

Software Engineering

Applicants should have a GATE or GRE score taken in the last five years. Candidates with suitable industrial or academic experience and credentials may apply without competitive exam such as GATE or GRE scores, for whom a written exam at IIITB will be conducted.

How to Apply?

- Our admissions process is **online** – the details of our admissions portal will be provided in the research admissions website when the portal goes live.
- All applicants need to pay a **non-refundable application fee of INR 1000/-**, the payment for which shall be done online through the admissions portal.
- It is mandatory for all applicants to get at least **two recommendation letters**.
- The online application will require **submission of a consolidated pdf file** which contains:
 - (i) a cover letter summarizing the application (including research interests, choice of research domain, and the topic of interest for thesis, if any),
 - (ii) most recent curriculum vitae (including name as per 10th grade marksheets or government-issued photo-identification document, postal address, contact mobile number, details of two or more recommenders/references),
 - (iii) scanned copies of self-attested copy each, of all relevant academic transcripts,

- (iv) scanned copies of signed recommendation letters from references*,
- (v) scanned copy of photo ID (proof for name given in curriculum-vitae),
- (vi) a statement of purpose (an essay of not more than 1500 words including research interests and relevant experience),
- (vii) a statement of research preparation (an essay of not more than 1500 words on how the applicant has objectively prepared him/herself to undertake the demanding research program at IIITB),
- (viii) if available, a list of relevant publications.

* The references may choose to send us single-blind recommendation letters (i.e. the applicant does not see the recommendation letter), in which case they may email the letter to research.admissions@iiitb.ac.in with subject stating "Recommendation letter for Application: ", including application ID generated by our admissions portal and the applicant's name as mentioned in the online application. To note, *it is the onus of the applicant to (a) inform the concerned reference the application ID and applicant name, as well as the deadline for submission of reference letters, and (b) indicate in the cover letter that the recommendation letters may be expected separately.*

- Academic transcripts pertaining to all degree programs (including term/semester performance reports/grade cards) completed by the applicant shall be deemed relevant. If the applicant is seeking provisional admission for Masters or Ph.D. program, as in is currently completing Bachelors or Masters degree, respectively, the applicant may state so in the cover letter.
- All queries may be sent via e-mail to the Institute: research.admissions@iiitb.ac.in .
- The degree program manuals and admissions brochure are available at the website

Important Dates for Master of Science by Research and Doctor of Philosophy

Online Applications	
Opening date for applying online	September 30, 2016
Last date for applying online with fee remittance	October 25, 2016
Selection and Joining	
Notification of selection for onsite evaluation	November 8, 2016
Onsite evaluation (written exam, if any, and interview)	November 21-25, 2016
Notification of final selection	November 29, 2016
Remittance of acceptance fee	December 13, 2016
Joining date	December 30, 2016
Orientation and course registration; classes begin for Term II	January 02, 2017

How to Apply

Online Application Portal for iMTEch Admissions

<p>Step 1:</p> <p>Step 1 - Register your Application Fill out 4 step registration form</p> <ul style="list-style-type: none"> • Go to URL- iiitb.in/applynow that opens Application Registration web page • Click on “Proceed to Application” link 	<p>Step 2:</p> <p>Step 2 - Form Fee Submission Make online payment applicable for Application Form</p> <ul style="list-style-type: none"> • Applicant Details: Clicking on 'proceed to application' will open a registration form that requires applicant's basic details and Click on 'Next' button that will redirect applicant to another screen that will capture his/her Contact details. • Program Details: Click on 'Next' button that will redirect applicant to another screen that will capture his/her program/Degree details • Checkout Process: Fill the details in the above form and Click on 'Next' button that will redirect applicant to another screen that will redirect to checkout process • Click on 'Pay Now' button that will redirect to HDFC Payment Gateway. • Select the card option VISA/MasterCard etc. • Enter the card details like- Card no., Card holder name, expiry date, CVV no. and click on 'pay now' button • Once the payment gets successful, system will generate Application ID.
<p>Step 3:</p> <p>Step 3 - Registration Confirmation on Email Id Get application confirmation with Login Id & Password</p> <ul style="list-style-type: none"> • Applicant will receive an email on registered email address with login credentials and url. 	<p>Step 4:</p> <p>Step 4 - Login, Complete & Submit Application Login to Applicant Portal to Submit Application</p> <ul style="list-style-type: none"> • Login to portal with his/her credentials. • The applicant can enter other details like- Education details, competitive exam details (like JEE score) displayed on the right hand side of the screen. • Can view payments; Pay fees, Documents, Upload Image.

Note: There is no provision for return or reimbursement of application fee for any reason (even if the application is rejected for any reason including delayed payment of application fee).

Master of Science (Digital Society)

You can apply online by visiting <http://iiitb.campusmetalink.com/CmlPortal/login.cml>. Please visit <http://www.iiitb.ac.in/master-science-digital-society> for additional information including an introductory video and a detailed brochure. You can send queries to admission-ds@iiitb.ac.in

Address for Correspondence

All correspondence must be sent to the following address:

Registrar
International Institute of Information Technology, Bangalore
26/C, Electronics City,
Hosur Road, Bangalore - 560100

Tel. (080) 4140 7777 / 2852 7627 Fax: (080) 28527636

E-Mail:

iMTech Admissions: admissions-imtech@iiitb.ac.in

M.Tech. Admissions: admissions-mtech@iiitb.ac.in

MS/PhD Admissions: research.admissions@iiitb.ac.in

M.Sc. Digital Society: admission-ds@iiitb.ac.in

FACULTY PROFILE

IITB attracts national as well as international scholars, across all disciplines related to Information Technology, to join as its regular, adjunct, and visiting faculty. Our regular faculty members hold Ph.D.s from premier research institutions and universities. They are engaged in state-of-the-art research, teaching unique set of courses imbining both basics as well as contemporary knowledge from research, consulting with government as well as industry, volunteering in professional societies such as ACM and IEEE and as editors and reviewers in top-tier research journals and conferences, and various administrative activities at the Institute. Our adjunct and visiting faculty members are affiliated to renowned universities and industrial firms. They offer support with teaching and other mentoring activities. They bring in a wealth of pragmatic knowledge in the courses they teach. Time to time, IITB has also attracted several faculty members from premier institutions as part of faculty exchange programs. Details of our faculty profile may be found at <http://www.iitb.ac.in/faculty.php>

