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ज्ञानमुत्तमम्

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE

ANNUAL REPORT

AUG 2016 – JULY 2017

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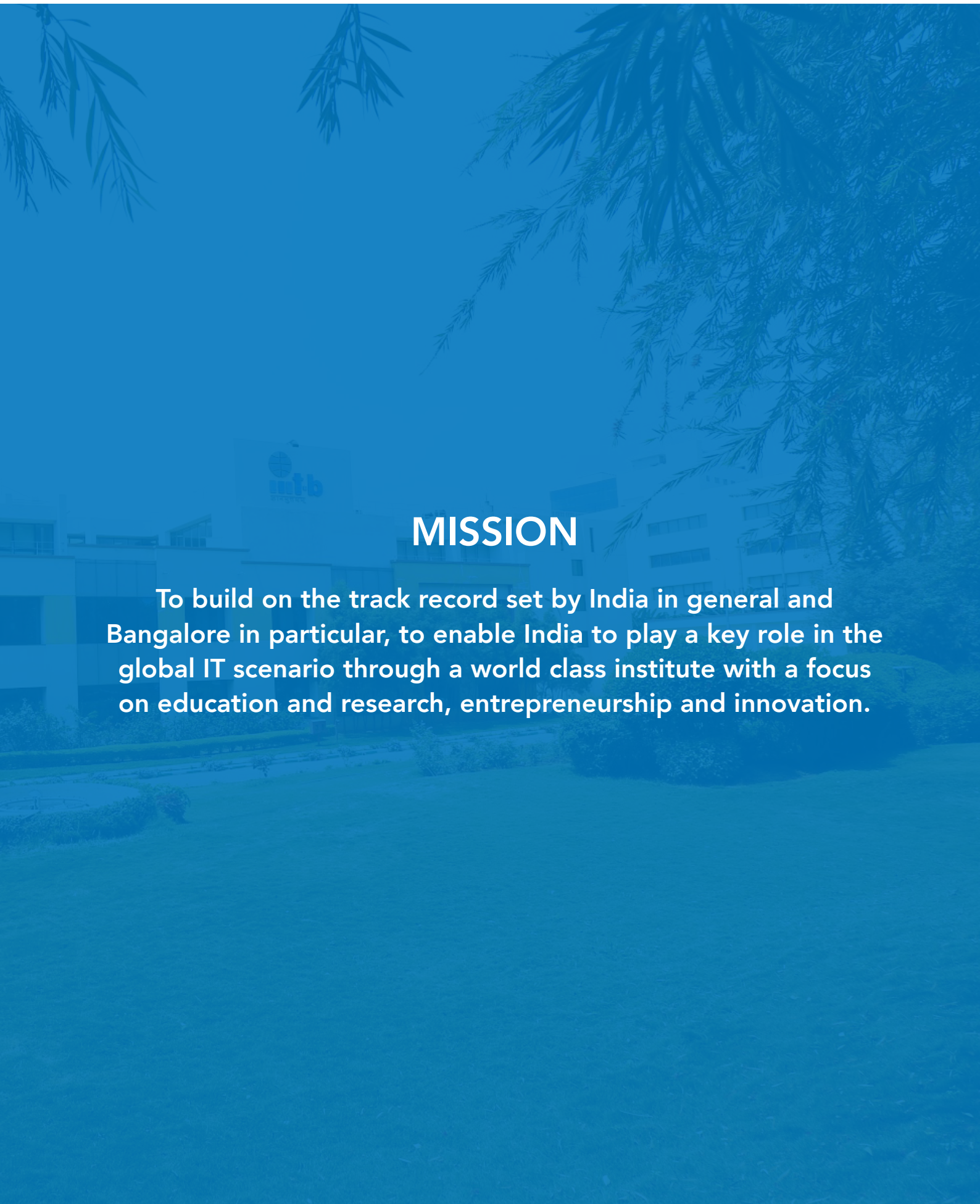
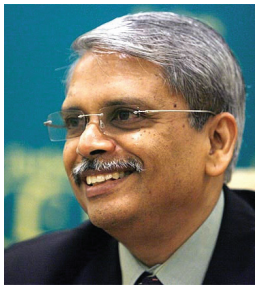


MISSION

To build on the track record set by India in general and Bangalore in particular, to enable India to play a key role in the global IT scenario through a world class institute with a focus on education and research, entrepreneurship and innovation.

GOVERNING BODY



Mr. S Gopala krishnan
Chairman Governing Body,
Executive Vice chairman,
Infosys

S Sadagopan
Founder Director
International Institute of
Information Technology Bangalore

Mr. B V Naidu
Chairman,
Sagitaur Ventures India
Pvt Ltd, Founder member

Mr. I S N Prasad
Additional Chief Secretary,
GoK

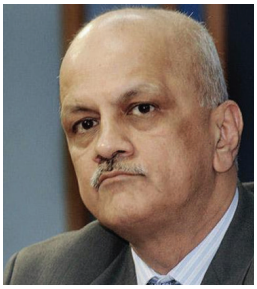
Ms. V Manjula
Principal Secretary,
ITBT, GoK

Mr. Srivatsa Krishna

Secretary, IT, GoK

Professor Pankaj Chandra

Chairman, Board of Management,
Ahemadabad University



Mr. R Chandrashekhar

IAS, President, NASSCOM

Mr. Gautam Hegde

Managing Director, Backend
Bangalore Pvt Ltd

Mr. Naresh Shah President

EG India R&D Hewlett
Packard Enterprise

Ms. Nivruti Rai

General Manager, Intel India

Mr TK Srirang

Senior General Manager & Head
Human Resource, ICICI

AnnaLee Saxenian

Professor

Cmde SR Sridhar (Retd)

Registrar,
IIITB - Secretary to the Board

ADMINISTRATION

S Sadagopan

Professor & Director

Cmde SR Sridhar (Retd)

Registrar

Chandrashekar Ramanathan

Professor & Dean (Academics)

Jyotsna Bapat

Professor & Dean (Faculty)

Srinath Srinivasa

Professor & Dean (R&D)

S S Prabhu

Advisor (Academics)

M Pitchaiah

Advisor (Finance)

Ramesh Sundararaman
Chief Executive Officer,
Innovation Center, IIITB

D V Jagadish
CEO, Outreach &
Innovation Center

J P Patil
Chief Administration
Officer

M K Durai Murugan
IT and Data Centre Manager

Meenakshi D'Souza
Associate Professor &
Warden (Women's Hostel)

Sujit Kumar Chakrabarti
Assistant Professor &
Warden (Men's Hostel)

Tricha Anjali
Associate Professor &
Faculty-in-charge Student
Exchange

S Rajagopalan
Professor & Faculty-in-charge
Institutional & Finance

V Sridhar
Professor & Faculty-in-charge
Library

T K Srikanth

Professor & Faculty-in-charge
Computing

Amit Prakash

Associate Professor and
M.Sc. (Digital Society)
Programme Coordinator

Madhav Rao

Assistant Professor,
iM.Tech Coordinator and
Faculty in-charge-Labs

V N Muralidhara

Associate Professor,
M.Tech. & S.M.Tech.
Programme Coordinator

Manisha Kulkarni

Associate Professor &
M.S. Ph.D. Programme
Coordinator

G Srinivasaraghavan

Professor & Faculty-in-
charge Internships &
Placements

Cynthia DMello

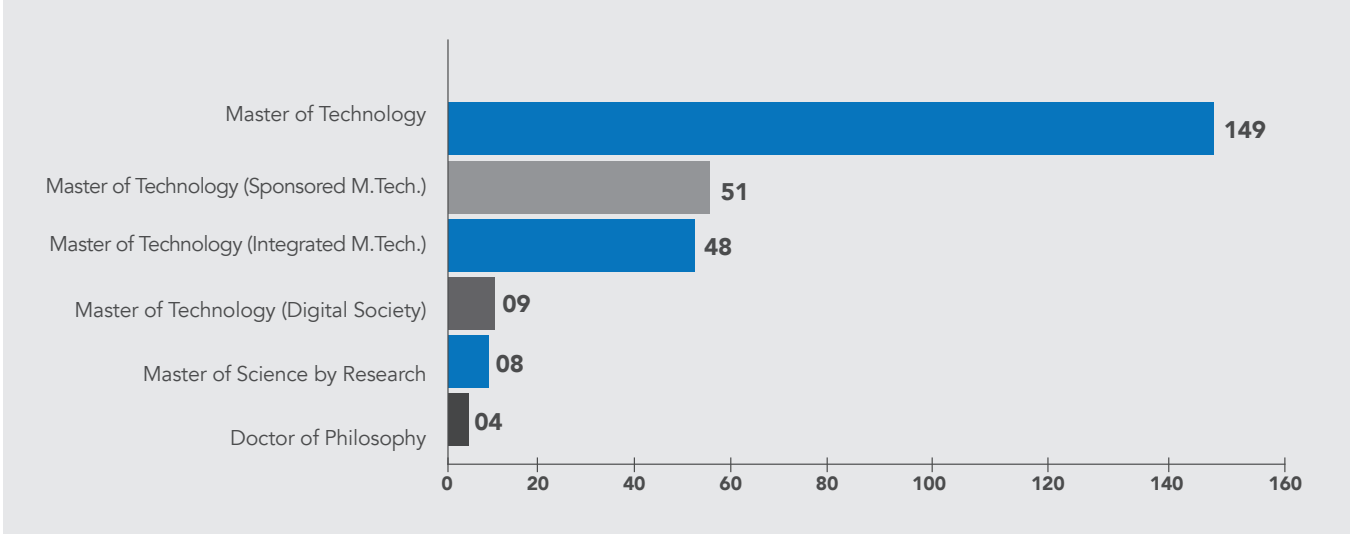
Staff Officer,
Deans office

Rama Devi S

Librarian

FROM DIRECTOR'S DESK

It gives me immense pleasure to present the major milestones of the bygone academic year 2016-2017. It was indeed a year packed with triumphs in a multitude of fronts. The year culminated with a grandiose celebration of the 17th Convocation. It was indeed our proud privilege to have Dr Indranil Manna, Director, IIT Kanpur as our Chief Guest and Mr. S C Khuntia, IAS, Chief Secretary as our Guest of Honour of the day, and our Chairman of the Governing Body, Mr. S Gopalakrishnan, Co-Founder & Vice-Chairman, Infosys Ltd., who presided over the function. It was a moment of enormous satisfaction when 269 of our students (4 with PhD degree, 8 with MS by Research Degree, 149 with M Tech Degree, 9 with M.Sc. Digital Society, 51 Sponsored M. Tech and 48 students of 5 year Integrated M.Tech degree) graduated:-



The year 2016-17 is very special in the evolution of IIITB. In the 17th Convocation, the very first batch of Integrated M.Tech program students' graduated. The institute planned for the program during 2009-12 and launched it formally in August 2012. The 17th convocation also witnessed the very first batch students of the unique two years Master program in Digital Society students graduate; admitted two years back, the students and the program have already attracted the attention of a leading Central University in India and two Research Universities in Australia. Another speciality of the 17th convocation is also the graduation of the first two batches of sponsored M/Tech program, all employees of Samsung Research India graduate program. On August 05, 2017, the first batch of 231 students of the highly successful Online Education program on Analytics jointly executed with the UPGRAD also graduated.

I present here some cumulative statistics of our students who have graduated from IIITB thus far: -

M Tech Program

YEAR	JOINED	GRADUATED	CUMULATIVE
2012-2014	155	155	1841
2013-2015	137	136	1977
2014-2016	154	154	2131
2015-2017	151	149	2280

Master of Science by Research Program

YEAR	JOINED	GRADUATED	CUMULATIVE
2013-2014	04	03	18
2014-2015	13	05	23
2015-2016	8	11	34
2016-2017	11	08	42

PhD

YEAR	JOINED	GRADUATED	CUMULATIVE
2013-2014	08	03	07
2014-2015	09	07	14
2015-2016	13	02	16
2016-2017	14	04	20

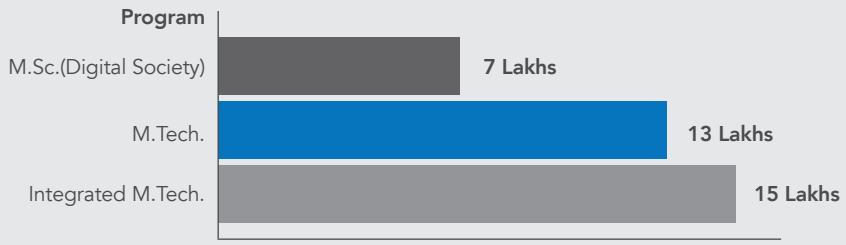
Integrated MTech

YEAR	JOINED	GRADUATED	CUMULATIVE
2012-2017	51	48	48

Master of Science (Digital Society)

YEAR	JOINED	GRADUATED	CUMULATIVE
2015-2017	09	09	09

Placements at IIITB continues to be one of our USP for the 17th year in a row with near 100 %. The highlights are appended below:-



Our students and alumni continued to win laurels on several fronts. Some of the main accomplishments are appended below:-

Our students were winners in the "Machine Learning and Data Science Hackathon" organized by Microsoft Research, Whatson "Cognitive Challenge" organized by IBM and "Hackathon for Smart Cities" organized by e-Governance foundation - Chandan, Shashank Aditya Bhat, Alan, Michel, Sandeep Tadepalli and many other students who won other hackathons during 2016-17 deserve a huge applause.

IIITB Alumni Association for North America was formally launched by the Director & CEO of Outreach Mr. Jagadish in September 2016 with an event in Sunnyvale (West Coast) and Edison (East coast).

Student Sachin (MT 2015517) made Quadricopter drone who made us proud and our first batch IMTech student Yeshwanth got multiple offers from some of the leading Research groups in Cryptography for his Ph.D.

Last, but not least, the three students (Simran Dokania, Shyam and Aditya Paliwal) have participated in the month of May for the first time in the ACM IPC (International program contest), undoubtedly the most prestigious competition in the planet with participation of students from 103 countries involving 65000 students; our team reached the 'final 128'. It is indeed a huge achievement.

The institute wishes them good luck in all their endeavours.

One of our graduate students of the Digital Society was topper at the time of admission and at the time of Graduation, is a VIP (100% visually impaired person).

Professor **Jaya Nair** received early career Research Award of DST.

Dr. Manish Gupta joined us as Infosys Chair Professor early this year

Prof Debabrata Das took over as Chairman IEEE, Bangalore Section in January 2017

- The numerous papers presented and R & D projects that IIITB faculty have been involved in during the past one year is listed in the Faculty publications section.
- Dr. Vikas Vazhayil, a Neuro Surgeon from NIMHANS is the latest addition to our star galaxy of Ph.D students, thanks to a special partnership between IIITB and NIMHANS.

IIIT-B continues to attract outstanding faculty members and scholars from around the world. Last year the following joined IIITB as fulltime faculty:-

- Prof. Pradeesha Ashok
- Prof. Manish Gupta, Infosys Chair Professor
- Prof. V Rama Subramanian
- Prof. B Thangaraju

Other key activities in the year include

- Our 17th Foundation Day Program had Professor S G Deshmukh,, Director, IIIT Gwalior, Mr Vikram Sampath, Celebrity Author, Dr. Geetha Manjunath, Xerox Research India, and Mr. K Dinesh, Founder, Infosys Technologies
- IIITB continues to be the Mentor Institute for IIIT Dharwad and MIIT Mandalay.

Distinguished visitors

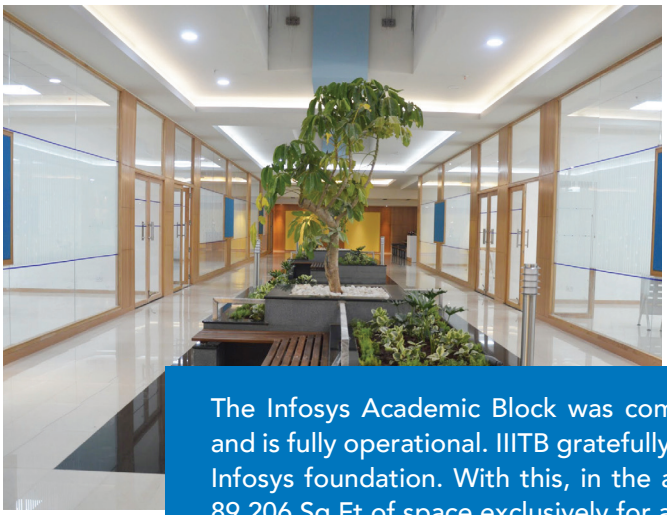
Prof. Kiran Seth, Founder, SPICMACAY

Dr. Prasad Ram, Founder, Gooru Labs

Events

We hosted several prestigious events in the Institute that include workshop on "no cash, no intermediates "in November 2016, Mobile Payment workshop, Net Neutrality Workshop in December 2016, Internet Researchers' Conference (IRC 17) in the March 2017 and ICANN 58 in April 2017.

The incubation Centre has done well by incubating a number of successful startups. It has incubated 50 plus startups, over 80 new products/services were brought to marked, over 300 jobs have been created and over 10 startups managed to raise funds.



The Infosys Academic Block was completed in a record time of 11 months and is fully operational. IIITB gratefully acknowledges Rs. 24 crores grant from Infosys foundation. With this, in the academic year 2016-17 we have added 89,206 Sq Ft of space exclusively for academic activities.

We have a long way to go, but our baby steps in the past seventeen years are reassuring.

"Institution building is an act of faith". But for the trust-based relationship between the Governing Body and the Executive, IIIT-B would not be what it is today. We look forward to such continued support from the management and from all sections, namely, faculty, students, staff, alumni, funding agencies, government, industry and civil society.

ABOUT IIIT BANGALORE

International Institute of Information Technology Bangalore, (IIIT Bangalore) is promoted by the Karnataka government and the IT industry. IIIT-Bangalore attracts high quality students from all over India and abroad to its acclaimed iM.Tech. M. Tech., M.S. by Research and PhD programs. Along with a very distinguished faculty, they pursue research in a unique campus located in Electronic City, the heart of the IT Industry in Bangalore.

The major objectives of the Institute are to be a specialized centre for higher learning in IT, to promote Bengaluru as a global centre of Excellence in IT, to carry out R&D, both on its own account and also based on sponsorship from the Indian and global IT industry, to act as an interface between industry and the academic community, to co-create and commercialize Intellectual Property to train professionals from industry and government on advanced IT technologies. IIIT-B has been conferred the status of Deemed to be a University by the University Grants Commission under section 3 of the UGC Act in 2005 and is, therefore,empowered to award degrees. The Institute has also been accredited by the National Assessment and Accreditation Council with the highest grade of A.

The best universities in the world share common traits - a) ability to attract talented faculty and students, b) open environment that fosters creativity, critical thinking and knowledge sharing and c) genuine commitment to make a lasting contribution to the broader society. At IIIT-B, these serve as guideposts in our pursuit of excellence in teaching, research and student development.

The curriculum here is designed to strike an appropriate balance been foundational elements and industry relevance. Teaching methods at IIIT-B are continuously evolving with developments in technology and increasing access to information sources. The emphasis is on contextualization and enhancing students experience and not the mere delivery of content. The success of our internship and final placement programs year after year is a visible sign of the value that employers attach to III T-B students. The Institute focuses on the generation of new ideas, building a deep understanding of technology, and teaches with skill and passion. The institute aims at inculcating skill, knowledge, teamwork, perseverance and self-confidence in its students.

The institute has a short but distinguished history of 17 years producing quality post-graduates every year. The 2000+ strong alumni occupy key positions in various corporations, delivering tremendous value to their organizations. The courses are designed with an eye on the requirements of the industry, and are kept exible to accommodate any changes in the industry. Students from different technical and cultural backgrounds come together in the institute,realizing the potential of unity and teamwork. Immense support from the faculty members enables the students to stay on the path of scientific enquiry. In addition to high quality publications, the students and faculty have produced several patents and novel projects.

State of the art technology infrastructure is available to all the students in the various research laboratories in the institute.

The institute has an excellent library, through which the students have access to the latest developments in their fields.

The institute attracts a lot of visitors, and the list of distinguished visitors in its short history is a very long one.

The institute helps the students keep in touch with the pace of innovation and development in the industry by holding conferences and workshops at regular intervals.

The entrepreneurship cell of the institute is very active, and has incubated and supported several companies in the campus. These companies have since moved on to other successes, but have proved to be an excellent training ground for the students.

The local SPICMACAY chapter also conducts a yearly musical and dance festival, in which the students and various famed artists perform, delivering an enthralling evening of music and culture.

The students are also active in the community work around the college. A yearly blood donation camp is a regular feature at Ill TB where a large number of students donate blood.

The institute has a vibrant student exchange program with a number of universities including MIT, City University of Berlin, Hoff University, University of Nottingham and Southampton University.

IIITB is the mentor institute for setting up of Myanmar Institute of Information Technology(MIIT) at Mandalay. This is being done as part of the MEA Development Partnership Project with Govt. of Myanmar. As part of the project, IIIT-B is expected to help set up and manage MI IT for the first 5 years.

MIIT currently offers a Post Graduate Diploma in Software Development, a 9 month program designed to get the graduate students, IT industry ready. The first batch of the program was started in Oct 2015 with a strength of 60 students. MIIT also has a B.E(Hons) program, launched on 15th December 2015 with a batch strength of 120 students.

IIITB is helping with the procurement process to ensure world class infrastructure is set up at MIIT on the same lines (if not better) than what is there for top class institutions at India.

IIIT-B actively encourages the pursuit of entrepreneurial ventures. The III T-B Innovation Centre, a section 8 Company under the Companies Act (2013) provides incubation facilities and seed funding for promising ideas that could have the significant social impact or economic value. The entrepreneurship cell of the institute is very active and has incubated and supported around 40 companies in the campus. These companies have since moved on to other successes but have proved to be an excellent training ground for the students.

INFRASTRUCTURE

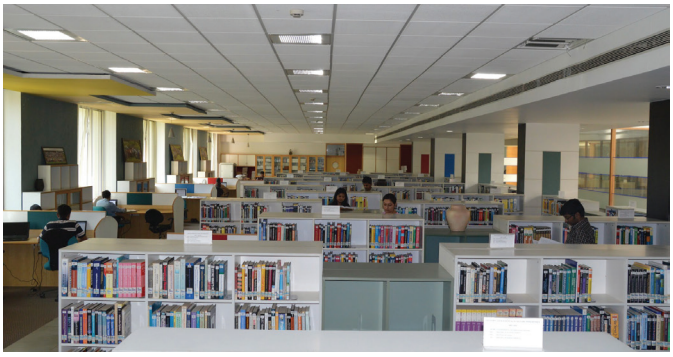
The Institute offers world-class infrastructure and an ambience perfectly conducive to teaching, learning and research for both students and faculty. The main campus area of 9.002 acres has five main buildings and is well planned with facilities like Innovation Centre, academic blocks, research labs, state-of-the-art classrooms, playground, library, food court, medical room and multipurpose hall.

- Smart classrooms, with high-speed data networks
- WiFi enabled campus
- Separate hostels and gymnasium for both boys and girls
- 24x7 security
- 90,000 sq. ft. of air-conditioned space
- In-house Sewage Treatment Plant (STP)
- Solar power panels
- Uninterrupted power supply

The campus is equipped with sports facilities for outdoor activities like Jogging, Cricket, Football, Basketball, Volleyball, Lawn Tennis, Throw ball, and indoor activities like Badminton, Table Tennis, Carom, Chess.

Ramanujam – Academic Block

Library



Lilavati – Women's Hostel

Photo Credits: Shreya Joshi and Neerja (M.Tech. 2017-19)

Bhaskara – Men's Hostel

Food Court

Photo Credits: Shreya Joshi and Neerja (M.Tech. 2017-19)

Calorie Bee (Women's Gym)

Shape Up (Men's Gym)

Extra Curricular Activities

Data Center

Innovation Center

Classrooms

Learner Friendly Environment

RESEARCH AND LABS

COMPUTATIONAL SCIENCES LABORATORY (CSL)

The CSL at IIIT-B are interested broadly in the areas of Algorithms, Optimization, and Robotics.

Major focus areas:

- 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.
- Approximation algorithms, machine learning, cryptography and linguistics.
- Novel robot skeletons using generalized mechanisms, incorporating magnetics distributed throughout.
- Algebraic number theory.
- Electronic design automation including statistical timing analysis and optimisation for digital circuits, power analysis and optimization and formal verification, semiconductor manufacturing, statistical optimization, combinatorial optimization, and design and analysis of algorithms.
- Visualization (scientific and information), high-performance computing, computational geometry and topology.

Research & Publications:

CSL members have published in INFORMS, ICARE (Springer), and submitted their work to journals. One Ph.D thesis and one M.S. thesis have been submitted during 2016-17. Courses on Advanced Algorithms and a seminar course on algorithmic frontiers have been conducted.

Research Output:

- Our work on powerline communication has been granted two patents in India.
- Our methods of decimal arithmetic were further extended and industrially tested. Preliminary results show significant gains over the existing industry state-of-art. We are investigating incorporation into servers handling financial computations, and are discussing with CDAC, IDRBT, and industry. Additional publications are in preparation.
- We have further extended our work in Indian Railways, and have submitted a detailed report to IR, and are waiting for IR to revert. One master's thesis on the subject was completed, and publications are in progress. An expression of interest EOI for joint freight/passenger scheduling. We are exploring the use of CDAC supercomputer facilities for a problem of this unprecedented scale.
- The RMIT series of conferences continues to be held, and one is planned this year on Oct 13-14, 2017.

CENTRE FOR 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 Sciences, Computational Topology.

FACULTY INVOLVED

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

WEB SCIENCES LAB

The Web Science Lab (WSL) at IIIT-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.

Publications

Year - 2017

- Anish Bhanushali, Raksha S Patel, Srinath Srinivasa. Identifying Opinion Drivers on Social Media. Proceedings of The 16th International Conference on Ontologies, Databases and Applications of Semantics (ODBASE 2017), Springer LNCS, Rhodes, Greece, October 2017.
- Chaitali Diwan, Srinath Srinivasa, Bala Murali Krishna. Autonomous Spectrum Assignment of White Space Devices. Proceedings of the 12th EAI International Conference on Cognitive Radio Oriented Wireless Networks. Lisbon, Portugal. September 2017.

Year - 2016

- Asha Subramanian, Ved Kurien Mathai, Vikkurthi Manikanta, Janaki Vinesh Joshi and Srinath Srinivasa. Semantic Integration of Open Data Tables. Proceedings of the 15th International Conference on Ontologies, Databases and Applications of Semantics (ODBASE 2016), Rhodes, Greece, October 2016.
- Aastha Madaan, Tiropanis Thanassis, Srinath Srinivasa, Wendy Hall. Observlets: Empowering Analytical Observations on Web Observatory, WWW'16 Companion Volume, April 11–15, 2016, Montréal, Québec, Canada.
- Tahir Ahmad Dar, Sumant Kulkarni, Srinath Srinivasa, and Ullas Nambiar. UCliDSS: An Unsupervised Clinical Decision Support System for Text. Proceedings of the 21st International Conference on Management of Data (COMAD 2016), March 11-13, 2016 Pune, India.

Activities – 2017

- 4 August 2017. Asha Subramanian completed her open seminar entitled, "Semantic Integration and Knowledge Representation of Open Data Powered by Linked Open Data" as a pre-requisite requirement to the submission of her PhD thesis.
- 21-30 June 2017. Srinath Srinivasa visited Gooru HQ at Redwood City, California as part of the ongoing collaboration for setting up Gooru Labs at IIIT Bangalore.
- 5–8 June 2017. Asha Subramanian presented her work at the Data Science Congress 2017 held in CIDCO Convention Centre, Vashi, Navi Mumbai, Maharashtra, India.
- 27 April 2017. Raksha P S finished her PhD Comprehensive exam.
- 24 April 2017. Final Project reviews for Semester Jan-May 2017 at Web Science Lab IIIT Bangalore.
- 19 April 2017 – 20 April 2017. Workshop on Big Data Engineering at IIIT Bangalore. This workshop is a part of a project Co-creation of a Center of

Excellence in Big Data Engineering , a collaboration between IIIT-B and City University London, to set up a centre of excellence in Big Data Engineering.

- 8 April 2017. Asha Subramanian and Raksha P S presented poster and demo of their work at RISE "Open House," IIIT Bangalore.

- 7 April 2017. Asha Subramanian and Raksha P S presented their work at PhD Colloquium, IIIT Bangalore.

- 29 March 2017. Srinath Srinivasa, Dean R & D, IIIT Bangalore. Attended European Research Council (ERC) meeting in Delhi representing IIIT Bangalore.

- 15 March 2017. Visit of Prasad Ram(Pram), Founder and CEO of Gooru.org at Web Science Lab, IIIT Bangalore.

- 13 March 2017. Project Review 2 of the projects at Web Science Lab, IIIT Bangalore.

- 8 February 2017. Srinath Srinivasa. Took office as the Dean (R&D) of IIIT Bangalore.

- 6 February 2017. Project Review 1 of the projects at Web Science Lab, IIIT Bangalore.

- 9th January 2017 – 13th January 2017. Srinath Srinivasa, Visited Gooru HQ at Redwood City, California, as a part of continuing the collaboration initiative.

Activities – 2016

- 21 December 2016. Sumant Kulkarni successfully defended PhD. thesis entitled, "Mining Labeled Semantics across Terms and Documents in User Generated Text Corpora."

- 19 December 2016. WSL. "Web Science Lab Workshop" at IIIT Bangalore.

- 11th December 2016 – 17th December 2016. Srinath Srinivasa, Visited Gooru HQ at Redwood City, California, as a part of continuing the collaboration initiative.

- 29 November 2016. Web Science Lab. WebScience@10 -celebrating 10 years of Web Science. Events were run in Berlin, London and Chicago and WebScience@10 'TV channel' and followed on hashtag #websci10. The event showed the world a day in the life of Web science by showing videos from different countries, IIIT -Bangalore was featured in this. The video is available at https://youtu.be/wz48FT4hcrI

- 21 November 2016. Srinath Srinivasa. Participated as an external member of the thesis exam committee of an MS thesis defence at the Supercomputer Education and Research Centre, IISc, Bangalore.

- 9 November 2016. Praseeda. Presented a talk on "Trust, CBAC and Blockchains" at Web Science Lab, IIIT Bangalore.

- 26 October 2016. Asha Subramanian. Presented her paper at the 15th International Conference on Ontologies, Databases and Applications of Semantics (ODBASE 2016),Rhodes, Greece.

- Paper details : Subramanian, Asha, Ved Kurien Mathai, Vikkurthi Manikanta, Janaki Vinesh Joshi, and Srinath Srinivasa. "Semantic Integration of Open-Data Tables." In OTM Confederated International Conferences" On the Move to Meaningful Internet Systems", pp. 589-607. Springer International Publishing, 2016.

- 10–14 October 2016. Srinath Srinivasa. Visited the Gooru HQ at Redwood City, California, as part of a collaboration initiative.

- 16 September 2016. Prasad (Pram) Ram, founder and CEO of Gooru. Presented a talk on "Technology for Social Justice" at IIIT Bangalore.

- 5–9 September 2016. Raksha S Patel, Asha Subramanian. Attended the 42nd International Conference on Very Large Databases (VLDB 2016), New Delhi, India.

- 24 August 2016. T B Dinesh, Technical Director, Servelots and Janastu. Presented a talk on "Web Annotation, Community Narratives and Familiarizing Stories" at Web Science Lab, IIIT Bangalore.

- 10 August 2016. Srinath Srinivasa. Participated as a selection committee member for selection of proposals from a call by NWO-DST, at SERC, IISc, Bangalore.

- 15 July 2016. Nirmal Kumar Sivaraman and Srinath Srinivasa. Presented a talk entitled, "Modeling Online Groups" and presented an introduction to Web Science, at hasgeek.in monthly meetings, Bangalore.

- 15 June 2016. Anoop Kumar Pandey. Successfully defended MS thesis entitled, "Entity Resolution using Co-occurrence Graph and Continuous Learning."

- 7 June 2016. Nirmal Kumar Sivaraman. Successfully defended MS thesis entitled, "A Cognitive Model of Groups and A Computational Model to Analyze Online Groups."

- 31 May 2016. Chaitali Diwan. Successfully defended MTech thesis entitled, "Autonomous Spectrum Assignment of Whitespace Devices."

- 29 Apr 2016. WSL members interacted with Infosys CorpTech group on research opportunities in Social Network Analysis and Web Science.

- 1 Apr 2016. Aastha Madaan. Rejoined WSL at IIITB after a six month research exchange at the Web Science Trust, University of Southampton.

- 12 Mar 2016. Tahir Dar. Presented Demonstration Paper entitled "UCliDSS : An Unsupervised Clinical Decision Support System for text" at International Conference on Management of Data (COMAD2016), Persistent Systems, Hinjewadi, Pune.

- 24 Feb 2016. Srinath Srinivasa. Delivered a public lecture entitled, "The Web and the Mind" as part of Bangalore Science Forum — a 53 year old tradition featuring public science lectures, National College, Basavanagudi, Bangalore.

- 21 Jan 2016. Srinath Srinivasa. Delivered an invited talk entitled, "Towards Mathematical Foundations for Social Machines" at the Ramanujan Mathematics for IT conference at IIIT Bangalore.

- 20 Jan 2016. Srinath Srinivasa. Participated as an invited guest at the launch of Carl Zeiss R&D Center at Bommasandra, Bangalore, India.

- 6 Jan 2016. Sumant Kulkarni. Presented his Open Seminar entitled "Assorted Algorithms for Semantics Extraction Based on a Co-occurrence Graph Corpus Model" before thesis submission.

CENTRE FOR ELECTRONICS & EMBEDDED SYSTEMS (CEEMS) LAB

The Centre for Electronics and Embedded Systems (CEEMS) Lab is a multi-disciplinary lab that supports research and education in Embedded hardware and computing, wireless communication, computer vision and software technologies. Current research has an emphasis on design of ultra-low power and reliable system design, design methodologies and architectures for systems-on-chip, wireless sensor and ad-hoc networks, and other emerging technologies for pervasive computing such as Solar, RFID technology, implementation of controllers for robotic manipulators.

The CEEMS Lab is equipped with the state-of-the-art instrumentations for design of analog circuits and digital design circuits, simulation, layout and testing of various circuits. Apart from the regular laboratory classes, it is also utilized for academic and research purposes by UG / PG / PHD students, and Faculty. The lab offers internship opportunities for students from various institutes and supporting to in-house companies using lab facilities for product testing. Students have 24 hours biometric access to the lab.

The Embedded Systems lab houses training facilities with High end computer systems and variety of advanced electronic components , vision cameras and high-tech industrial equipment such as spectrum analyzer, signal analyzer, vector signal generator, Agilent instruments MSO, Logic Analyzer, NI PXIe-1065; various Micro controllers development boards PIC, AVR, Atmel, NI development board, TI launch pad, Free scale , ARM, Digital signal processing (TI) kits, Micro processors, FPGA Xilinx Spartan kit / Vertex kit, Altera, Memsic wireless sensor networks boards, RFID kit , as well as Robotics building kits Tetrix and Lego, I robot and sensor boards; and industry standard VLSI EDA tools Cadence, Xilinx 13.0, Mentor Graphics, Quartus II, Embedded systems software's

tools including, Matlab, Code Composer Studio, Real View Development Suite, National Instrument Labview, Lego Mindstroms Education Nxt software.

CEMMS Lab provides students to get an opportunity in applying their design concepts learnt during their project work under the supervision of faculty, and paper published in international conference, Seminors and to win prize and accolades in various design contests such as Maxim, Hackathon, etc.

CEEMS lab is funded by the Government of Karnataka.

FACULTY INVOLVED

Prof. Chetan Parikh

Prof. Madhav Rao

Prof. Sachit Rao

Prof. Subajit Sen

Prof. Subir K. Roy

Prof. Debabrata Das

Prof. Dinesh Babu Jayagopi

Prof. Jyotsna Bapat

Prof. Neelam Sinha

Prof. G. N. Srinivasa Prasanna

Prof. G. Srinivasaraghavan

HIGH DENSITY ELECTRONIC SYSTEMS (HIDES) LAB

The High Density Electronic Systems (HiDES) Lab is used extensively to carry out high-end research as well as to support undergraduate and post-graduate teaching.

The lab has Intel and Arduino controller boards, ABB commercial robot, Firebird V robotic kit, Agilent Parametric Analyzer, Cascode DC Probe station, Carl Zeiss High resolution optical microscope, Makerbot 3D Printer, Wet lab for wet etching, copper plating, dip soldering, Thermal and Electron beam evaporator, High end oscilloscopes, function generators and power supplies.

The lab also has a variety of software suites, including IC nanometer Design suite, VLSI Design, Verification and Test suite, PCB Expedition suite and Mechanical Analysis suite from Mentor Graphics, Cadence VLSI Design suite, Ansys HFSS, National Instruments Multisim, etc.

FACULTY INVOLVED

Prof. Madhav Rao

Prof. Chetan Parikh

Prof. Subajit Sen

Prof. Subir K. Roy

Prof. G. N. Srinivasa Prasanna

Prof. Sachit Rao

INFORMATION TECHNOLOGY & SOCIETY (ITS)

The Information Technology and Society research domain at IIITB 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 INVOLVED

Prof. Amit Prakash

Prof. Balaji Parthasarathy

Prof. Bidisha Chaudhari

Prof. Janaki Srinivasan

Prof. Preeti Mudliar

Prof. S. Rajagopalan

Prof. V. Sridhar

Prof. Usha Vyasulu Reddy

CENTER FOR INFORMATION TECHNOLOGY AND PUBLIC POLICY

The Center for Information Technology and Public Policy (CITAPP) at IIITB focuses on the policy challenges and the organizational demands made by technological innovation. The Center is interested in interactions between technology and society and is particularly concerned with how technological advances, along with institutional changes, address the needs of under-served communities. It seeks to provide a means to nurture and transform public policy through the use of IT by engaging with academic faculty and researchers, policy planners, political leaders and community representatives, technology vendors, public officials and civil society organizations. The Center brings together best-practices demonstrating the power of IT and analytical tools for information management, modeling, and forecasting. It engages in research and evaluation studies of topics where IT and public interest intersect.

Conferences/workshop

- Second edition of Internet Researchers' Conference 2017 (IRC 17), co-hosted by the Centre for Internet and Society (CIS) and International Institute of Information Technology Bangalore (IIIT-B) was held during 3-5 March 2017.

- A 3-day Winter School, Decoding the Digital was held during 12-14 December 2016. The winter school was attended by close to 30 participants from across the country.

- A workshop on Digital Financial Platforms and Inclusion was conducted on 11 November 2016 by Dr. Janaki Srinivasan (IIIT Bangalore) and Dr. Elisa Oreglia (SOAS University of London).

- A stakeholder consultative workshop on Public Wi-Fi: Commercial Models and Interoperability was organized by the Telecom Regularity Authority of India (TRAI) in academic partnership with CITAPP, IIITB on 28 September 2016.

- One day symposium on Internet Policy and Governance was organized by CITAPP along with ICANN India on 22nd July 2016.

MATHEMATICS & BASIC SCIENCES (MBS)

FACULTY INVOLVED

Prof. Manisha Kulkarni

Focus Areas

Number Theory, Elliptic Curves.

Achievements

Research publications

- "Locally Potentially Equivalent Two Dimensional Galois Representations And FrobeniusFields Of Elliptic Curves."

Manisha Kulkarni, Vijay Patankar and C. S. Rajan.
J. Number Theory, 164 (2016) 87-102.

Research outcomes

- A note on an inequality of complex numbers and Mahler measure.

Manisha Kulkarni and Shreedhar Inamdar.
Preprint(ready to submit for publication)

1) Programme coordinator for MS/PhD since February 2017.

2) Member of the following committees:

- (a) Committee to draft academic rules for all IIITB students.
- (b) Committee for uplifting students with poor academic records.
- (c) Committee for revision of Mtech mathematics syllabus.

3) Mentored Myanmar faculties:

- "Ni Ni Win" (Aug 2016 – Dec2016)
- "Myat Moe Khaing"(Aug 2017 to Dec 2017)

4) Mentored 12 iMtech students of 1st year 2016 batch.

- Seminars held / conducted during the academic year.
- Arranged conference **"Ramanujan's mathematics and Information"**(RMIT) in 2016.
- Participation in National and International Conferences related to the research areas.
- Delivered lecture in RISE-2016 in IIITB on **"Diophantine equations and Elliptic curves"**

CENTRE FOR COMPLEX SYSTEMS & SOFT MATTER PHYSICS

FACULTY INVOLVED

B. Ashok, Associate Professor

Ph. D., University of Massachusetts Amherst, USA.

Focus Areas / Domains of research:

Prof. Ashok's research interests are primarily in theoretical soft condensed matter & polymer physics, and problems in nonlinear dynamics & complex systems. These include biomechanics and problems motivated by biological systems, vesicular nanotubulation, neuronal dynamics, problems in fluid mechanics including dynamics of acoustically forced charged bubbles & acoustic cavitation, instabilities in combustion phenomena, dynamics of macromolecular & micellar solutions, modelling of climate phenomena, etc.

Major Achievements in terms of the following

Research publications

- "The charged bubble oscillator: dynamics and thresholds", Pramana: Journal of Physics (acceptance intimated on 19 July, 2017; in press)

B. Ashok, Thotreithem Hongray & Janaki Balakrishnan,

Research outcomes:

- Work done over 2016-17 by Prof. Ashok and Dr. Hongray (Post-Doctoral Research Associate) at the Centre for Complex Systems & Soft Matter Physics at IIIT-B, in collaboration with Prof. Janaki Balakrishnan of the Complex Systems Programme at NIAS, Bangalore, has focussed on two topics.

- One area of research has been the dynamics of charged bubbles in a liquid under external acoustic forcing. This work on bubble dynamics included results reported for the very first time on charge and pressure thresholds for the system, as well as the influence of the bubble's ambient radius on thresholds and dynamics. This has implications in ultrasound medical diagnostics and in controlling damage to machinery used underwater.

- The second research focus was on the modelling of neuronal bursting dynamics. The novel model we propose is able to reproduce diverse types of bursting associated with different kinds of neurons.

Seminars held / conducted during the academic year:

- Prof. Ashok gave a brief talk and presented a poster on the research of the complex systems & soft matter physics group at the RISE 2017 event at IIIT-B on 8 April, 2017.

Participation in National and International Conferences related to the research areas:

- Prof. Ashok gave an Invited Talk, "On the effect of electrostatics on polymeric systems", in the Eight International Conference on Advancements in Polymeric Materials (APM 2017), organized by ARSTPS, R&D wing of the Central Institute of Plastics Engineering and Technology (CIPET), Dept. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India, held at IISc., Bangalore (11-13 February, 2017).

NETWORKING AND COMMUNICATION LAB (NCL)

FACULTY INVOLVED

Dr. Debabrata Das

Dr. Jyotsna Bapat

Focus Areas:

Power Saving in devices and base stations by New Protocols, Multi-Radio Access Technology (RAT selection), Privacy Aware Smart Buildings, Bandwidth Efficiency for 5G systems, TVWS, Scheduling schemes in LTE-A and Beyond, MAC for IoT devices as well as secured Transport layer.

Research publications:

Peer reviewed journal publications

1. Prashant K Wali, Amudheesan Aadhithan N, and Debabrata Das, "Optimal Time-Spatial Randomization Techniques for Energy Efficient IoT Access in LTE-Advanced", IEEE Transaction on Vehicular Technology, Volume: 66, Issue: 8, August 2017. http://ieeexplore.ieee.org/document/7847433/

2. Dibakar Das and Debabrata Das, "Efficient UE Mobility in Multi-RAT Cellular Networks using SDN", Wireless Networks, Springer, Accepted June 2017.

3. Saptarshi Chaudhuri, Irfan Baig, and Debabrata Das, "Self-Organizing Method for Handover Performance Optimization in LTE-Advanced Network", Computer Communication, Elsevier, Accepted in June 2017. http://www.sciencedirect.com/science/article/pii/S0140366417300464

4. Dibakar Das and Debabrata Das, "Radio Access Technology Selection in SDN controlled Reconfigurable Base Station", Journal of Computers and Electrical Engineering, Elsevier, Accepted on April 11, 2017. http://www.sciencedirect.com/science/article/pii/S0045790617308595

5. Parthiban A, Jyotsna Bapat and Debabrata Das, "Constellation Constraining-Based Coverage Enhancement Technique for MTC Devices in LTE-A", IEEE Wireless Communication Letter, Volume: 5, Issue: 6, pp 596-599, December 2016. http://ieeexplore.ieee.org/document/7556315/

6. Prashant K. Wali and Debabrata Das, "Enhanced-Power Saving Semi-Persistent Scheduler for VoLTE in LTE-Advanced", IEEE Transaction on Wireless Communication, Vol. 15, No. 11, pp 7858-7871, November 2016. http://ieeexplore.ieee.org/document/7565559/

7. Parthiban A, Jyotsna Bapat and Debabrata Das, "Coverage Enhancement for MTC Devices using Reduced Search Viterbi Decoder Across RATs", IEEE Communication Letter, Vol. 20, No. 9, pp 1892-1895, September 2016. http://ieeexplore.ieee.org/document/7505916/

Peer reviewed conference publications

1. Dibakar Das and Debabrata Das, "A Novel UE Centric Multi-RAT Deployment Model", IEEE International Conference on Smart Technologies for Smart Nation, Bangalore, 17-19 August 2017.

2. Pradnya Gaonkar, Amudheesan Aadhithan N, Jyotsna Bapat, and Debabrata Das, "Energy Budget Constrained Comfort Optimization for Smart Building", IEEE International Conference TENSYMP-2017, Cochin, India, July 14-16, 2017.

3. Amudheesan Aadhithan N, Prashant K Wali, and Debabrata Das, "Maximizing the Throughput of Duty-Cycle Based Licensed-Assisted Access in the Unlicensed Band", Twenty Third National Conference on Communication (NCC-2017), IIT-Madras, 2nd – 4th March 2017.

4. Amudheesan Aadhithan N, Prashant K Wali, and Debabrata Das, "Duty-Cycled Based Licensed-Assisted Access: Does Proportional Fairness Affect Wi-Fi More Than It Should?", Ninth IEEE International Conference on COMmunication Systems and NETworkS (COMSNETS-2017), Bangalore, 4th -8th January 2017.

5. Anushree Joshi, Pradnya Gaonkar and Jyotsna Bapat, "A Reliable and Secure Approach for Efficient Car-to-Car Communication in Intelligent Transportation Systems", International Conference on Wireless Communications, Signal Processing, and Networking (WiSPNET), December 2016.

6. Saahithyan Radhakrishnan, Samir Kumar Mishra and Debabrata Das, "Efficient Algorithm for Less Power Consumption in Extended-Coverage-GSM for Low Data-Rate IoT Devices", 13th International IEEE India Conference (INDICON-2016), 16th – 18th December, Bangalore, India.

7. Irfan Baig, Saptarshi Chaudhuri, and Debabrata Das, "A Dynamic Scheme for User Load Balancing in a Multi-Carrier LTE-Advanced Network", 13th International IEEE India Conference (INDICON-2016), 16th–18th December, Bangalore, India.

8. Saptarshi Chaudhuri, Irfan Baig, and Debabrata Das, "QoS aware Downlink Scheduler for a Carrier Aggregation LTE-Advance Network with Efficient Carrier Power Control", 13th International IEEE India Conference (INDICON-2016), 16th – 18th December, Bangalore, India.

9. Irfan Baig, Saptarshi Chaudhuri, and Debabrata Das, "Downlink Interference Control through Adaptive DRX in a Carrier Aggregation Enabled LTE-Advanced Heterogeneous Networks", IEEE International Conference on Advanced Networks and Telecommunication System (ANTS-2016), 6th – 9th November 2016, Bangalore, India.

Research Output:

Book Chapters

1. Prashant Wali, Amudheesan Aadhithan N, Debabrata Das, "Link Level Resource Allocation Strategies for Green Communications in LTE-Advanced", a chapter in Resource Allocation in Next-Generation Broadband Wireless Access Networks (edited by Swades De et. al.), IGI Global Publications, November 2016.

Conferences Organized

1. Dr. Debabrata Das served as the Program Chair for the 14th IEEE International Conference on Information Technology (ICIT-2016), December 21-23, 2016, Bhubaneswar, India.

2. Dr. Debabrata Das served as the General Chair for the 13th International IEEE India Conference (INDICON-2016), December 16-18, 2016, Bangalore, India.

Recently Completed Projects

1. Interoperability of Internet of Things (IoT) Devices – Sponsored by Nokia Research Lab. Principal Investigator: Dr. Debabrata Das.

2. Co-Principal Investigator: Dr. Jyotsna Bapat.

3. Year: October 2015 – October 2016.

4. Energy efficient radio access technologies and networking for 4G LTE broadband wireless access network – Sponsored by Department of Electronics and Information Technology (DeitY), Government of India.

5. Principal Investigator: Dr. Debabrata Das.

6. Co-Principal Investigator: Dr. Jyotsna Bapat.

7. Year: July 2014 – March 2017.

Ongoing Projects

1. COPAS - Cooperating Objects for Privacy Aware Smart public buildings – Sponsored by Ministry of Electronics and Information Technology (MeitY), Government of India and Cognizant Technologies Ltd. in collaboration with University of Twente, Enschede, The Netherlands.

2. Principal Investigator (from Indian academia, IIIT-B): Dr. Jyotsna Bapat.

3. Co-Principal Investigator (from Indian academia, IIIT-B): Dr. Debabrata Das.

4. Project Commencement: April 2016.

5. "Over The Air Small-Cell Testing" – Sponsored by Cisco, Bangalore

6. Principal Investigator (from Indian academia, IIIT-B): Dr. Jyotsna Bapat.

7. Co-Principal Investigator (from Indian academia, IIIT-B): Dr. Debabrata Das.

8. Project Commencement: September 2016.

International Visits

1. Pradnya Gaonkar and Dr. Debabrata Das visited the University of Twente, Enschede, The Netherlands during June-July 2017 as part of a collaborative on-going project on Cooperating Objects for Privacy Aware Smart public buildings (COPAS) sponsored by Ministry of Electronics and Information Technology (MeitY), Government of India and Cognizant Technologies Ltd.

Participation in National and International Conferences related to the research areas

1. Dibakar Das, attended and presented his paper in IEEE International Conference on Smart Technologies for Smart Nation, Bangalore, August 2017.

2. Pradnya Gaonkar, attended and presented her paper in IEEE International Conference TENSYMP-2017, Cochin, July 2017.

3. Amudheesan Aadhithan N, attended and presented his paper in the Twenty Third National Conference on Communication (NCC-2017), IIT-Madras, March 2017.

4. Amudheesan Aadhithan N, attended and presented his paper in the Ninth IEEE International Conference on COMmunication Systems and NETworkS (COMSNETS-2017), Bangalore, January 2017.

5. Anushree Joshi attended and presented her paper in International Conference on Wireless Communications, Signal Processing, and Networking (WiSPNET), December 2016.

6. Saahithyan Radhakrishnan, Irfan Baig and Saptarshi Chaudhuri attended and presented their papers in 13th International IEEE India Conference (INDICON-2016), IISc, Bangalore, December 2016.

7. Irfan Baig attended and presented his paper on IEEE International Conference on Advanced Networks and Telecommunication System (ANTS-2016), Bangalore, India, November 2016.

MUTLIMODAL PERCEPTION LAB

The Multimodal Perception lab focuses on human-centered sensing and multimodal signal processing methods to observe, measure, and model human behavior. Theae 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 from the backbone of the underlying formalism.

FACULTY INVOLVED

Dinesh Babu J

Focus Areas:

Multimodal signal processing, Applied Machine Learning, Social Computing, Behavior Analytics

Research publications:

1. P. Rao, S. Rasipuram, R. Das, D. Jayagopi. Automatic Assessment of Communication Skill in Non-Conventional Interview Settings: A Comparative Study, accepted in ACM International Conference on Multimodal Interaction(ICMI), Glasgow, Scotland, Nov 2017 (Pooja R gets Gary Marsden Student Development Fund Travel Grant to present her work).

2. C.Thomas, D. Jayagopi. Predicting Student Engagement in Classrooms Using Facial Behavioral Cues, accepted in International Workshop on Multimodal Interaction for Education (MIE), ACM ICMI Conference, Glasgow, Scotland, Nov 2017.

3. S.K. Nambiar, R. Das, S. Rasipuram, D. Jayagopi. Automatic Generation of Actionable Feedback Towards Improving Social Competency in Job Interviews., accepted in International Workshop on Multimodal Interaction for Education (MIE), ACM ICMI Conference, Glasgow, Scotland, Nov 2017.

4. S. Rasipuram, R. Das, P. Rao, D. Jayagopi. Online Peer-to-peer Discussions: A Platform for Automatic Assessment of Communication Skill, accepted in Context Based Affect Recognition Workshop, IEEE Affective Computing and Intelligent Interaction (ACII), San Antonio, Texas, USA, Oct 2017.

5. K. E. Manjunath, K.S. Rao and D. Jayagopi. Development of Multilingual Phone Recognition System for Indian Languages, published in IEEE Signal Processing, Informatics, Communication and Energy Systems (SPICES) Conference, Kochi, Aug 2017.

6. M.K. Prabhu and D. Jayagopi. MERS – A Multimodal Real Time Emotion Recognition System published in the Second International Workshop on Pattern Recognition (IWPR) Singapore, May 2017.

7. P. Dhananjay, D. Varshneya and D. Jayagopi. Restaurant Attribute classification using Deep Learning published in the Proceedings of IEEE INDICON, Bangalore, Dec 2016.

8. S. Rasipuram, P. Rao, and D. Jayagopi. Automatic Prediction of Fluency in Interface-based Interviews

published in the Proceedings of IEEE INDICON, Bangalore, Dec 2016.

9. M. Madhyastha and D. Jayagopi. A Low Cost Personalised Robot Language Tutor with Perceptual and Interaction Capabilities published in the Proceedings of IEEE INDICON, Bangalore, Dec 2016.

10. S. Rasipuram, P. Rao, D. Jayagopi. Asynchronous Video Interviews vs Face-to-Face Interviews For Communication Skill Measurement: A Systematic Study, accepted in International Conference on Multimodal Interaction(ICMI), Tokyo, Japan, Nov 2016. Best Student Paper Nomination.

11. G. GopanK, N. Sinha, D. Jayagopi. Statistical Feature Analysis for EEG Baseline Classification : Eyes Open vs Eyes Closed, IEEE TENCON, Nov 2016, Singapore.

12. P. Venkatesh, D. Jayagopi. Automatic Expression Recognition and Expertise Prediction in Bharatnatyam, accepted for presentation at the International Conference on Advances in Computing, Communications and Informatics (ICACCI), Sep 2016, LNMIIT Jaipur.

13. P. Venkatesh, D. Jayagopi. Automatic Bharatnatyam Dance Posture Recognition and Expertise Prediction using Depth Cameras, accepted for presentation at the SAI Intelligent Systems Conference, Sep 2016, London, UK. (IntelliSys 2016).

14. T. Mittal, L. Bangalore, D. Jayagopi. A Logo-Based Approach for Recognising Multiple Products on a Shelf, accepted for presentation at the SAI Intelligent Systems Conference, Sep 2016, London, UK. (IntelliSys 2016).

15. S. Rasipuram, D. Jayagopi. Automatic Assessment of Communication Skill in Interface-based Employment Interviews using Audio-visual Cues, published in the second International workshop on Affective Social Multimedia Computing, IEEE International Conference on Multimedia and Expo (ICME) 2016.

Research Output:

1. Prof. Dinesh Jayagopi's collaborative work with Prof. Daniel Gatica Perez and Dr. Oya Aran, researchers at EPFL, has been published as a book chapter in Social Signal Processing by Cambridge University Press, 2017 The title of the chapter is "Analysis of Small Groups".

2. Successfully completed and delivered a project from CAIR, DRDO titled Human Behavior Analysis using Indoor Camera.

3. Year 1 deliverables of the SERB(DST) Young Scientist project titled Automatic prediction of communication skill in self-presentation interviews, video conference based interviews and group discussions completed

Participation in National and International Conferences related to the research areas:

1. Manjunath, PhD student (ISRO) presents his paper in IEEE SPICES 2017, Kochi.

2. Mahesh Prabhu, Samsung MTech student presents his paper in IWPR 2017, Singapore.

3. Sowmya R, Daksh V, Pawan D, Meghana M attended Indicon 2016 at IISc and presented their papers.

4. Sowmya R attended International Conference on Multimodal Interaction(ICMI), thanks to a SIGCHI grant, and presented her paper

5. Dr. Dinesh Babu J attends International Conference on Multimodal Interaction(ICMI) supported by the Institute Travel Grant

6. Pooja V, Trisha M, Laasya B attended SAI Intelligent Systems Conference in London and presented their work

SOFTWARE ENGINEERING LAB

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 IIITB, the research in SE covers,Upstream (requirement and design) 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.

The mission of the Software Engineering stream at IIITB are two-fold: firstly, to educate our students to be high quality software engineers, with strong hands-on experience and with strong foundations in computer science concepts; secondly, to contribute original and ground-breaking ideas to the state-of-the art in SE by actively involving in research.

FACULTY INVOLVED

Prof. Meenakshi D'Souza

Prof. Sujit Kumar Chakrabarti

Research areas:

Requirements engineering, software architectures, testing, formal verification and program analysis. Application areas include web applications, embedded software and technologies for education.

Funded projects/research:

- Two research scholars funded by ABB Corporate Research, one with Prof. Sujit Kumar Chakarabarti and one with Prof. Meenakshi D'Souza.
- Industry partnership with Mathworks, jointly funded by Royal Academy of Engineering, UK. PI: Prof. Meenakshi D'Souza.

Academic Services:

- Prof. Sujit Kumar Chakrabarti is a Technical Programme Committee member in ISEC 2018.
- Prof. Sujit Kumar Chakrabarti was the workshop chair of Innovations in Software Engineering (ISEC) 2017.
- Prof. Meenakshi D'Souza was the publicity chair of ISEC 2017.
- Prof. Meenakshi D'Souza, along with researchers from Ericsson Research, Bangalore, organized a workshop on Developmental Aspects of Intelligent Adaptive Systems (DIAS) as a part of ISEC 2017.
- Prof. Meenakshi D'Souza is a PC member of ACM Compute.
- Prof. Sujit Kumar Chakrabarti Prof. Meenakshi D'Souza was an examiner of a thesis submitted from Computer Science Department, IIT Kharagpur.

Research areas:

1. Gracy Philip and Meenakshi D'Souza, Model-based Safety Validation for Embedded Real-time Systems, to appear in Formal Methods for Safety and Security Case Studies for Aerospace Applications, Nanda, Manju, Jeppu, Yogananda (Eds.), Springer, May 2017.

2. Ramakrishnan Raman, Meenakshi D'Souza, Knowledge Based Decision Model for Architecting and Evolving Complex System-of-Systems, Proceedings of INCOSE International Symposium, July 2017, pp. 30-44.

3. Hilam Patel, Meenakshi D'Souza and Nagesh Tikare, Method Level Power Estimation and Optimization in Next Generation Smart Phones, to appear in 6th IEEE International Conference on Advances in Computing, Communication and Informatics, September 2017.

4. Gracy Philip, Meenakshi D'Souza, Model-based Safety Analysis: Automatic Generation of Safety Validation Test Cases, to appear in 36th IEEE Digital Avionics Systems Conference, USA, September 2017.

SOFTWARE DESIGN LABORATORY

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.

FACULTY INVOLVED

Prof. K. V. Dinesha

E-HEALTH RESEARCH CENTER (EHRC)

The E-Health Research Center at IIIT-B conducts 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]. Initial focus is in the areas of mental health, malnutrition and disabilities. The work of the center is structured as a set of inter-disciplinary research programs, with participation from faculty members across the research domains at IIIT-B. EHRC is currently funding 3 PhD scholars and 3 MS scholars at IIIT-B, on research into topics in healthcare.

The center works in collaboration with partners including hospitals, research institutes and government organizations. EHRC has entered into a Memorandum of Understanding with NIMHANS, Bangalore. Under this arrangement, a number of collaborative research projects have been initiated. These span topics covering collection, visualization and analysis of data in public health services, development of assistive devices and robotic surgery, internet and mobile-based applications for hospital operations and patient care, and medical image analysis using machine learning. Research on visual analytics for healthcare informatics is being conducted in collaboration with the Foundation for Research in Health Systems.

Publications

- Sreevalsan-Nair, J., Murthy, N., Agarwal, S., Vangimalla, R. R. and Ramesh, S., "Collaborative Design of Visual Analytics Techniques for Survey Data for Community-based Research in Public Health," in the 8th Workshop on Visual Analytics in Healthcare, affiliated with IEEE VIS 2017.

- Ivatury, P., Jeena, A. and Prakash, A., 2017, March. Relevance of Participatory Approaches in Creating ICT Systems for Public Health Programmes. In Proceedings of the 10th International Conference

on Theory and Practice of Electronic Governance (pp. 346-354). ACM.

- Raja, R., Sinha, N., Saini, J., Mahadevan, A., Rao, K.N. and Swaminathan, A., 2016. Assessment of tissue heterogeneity using diffusion tensor and diffusion kurtosis imaging for grading gliomas. Neuroradiology, 58(12), pp.1217-1231

- Prakash, A. (2016). E-governance and public service delivery at the grassroots: a study of ICT use in health and nutrition programs in India. Information Technology for Development, 22(2), 306-319. http://dx.doi.org/10.1080/02681102.2015.1034639

- Sreevalsan-Nair, Jaya, "A Survey of Requirements of Multivariate Data and its Visualizations for Analysis of Child Malnutrition in India," Data Science Communications, vol. 1, October 2016, IIITB Press, 1–26.

FACULTY INVOLVED

Prof. T. K. Srikanth

Prof. Amit Prakash

Prof. Jaya Sreevalsan Nair

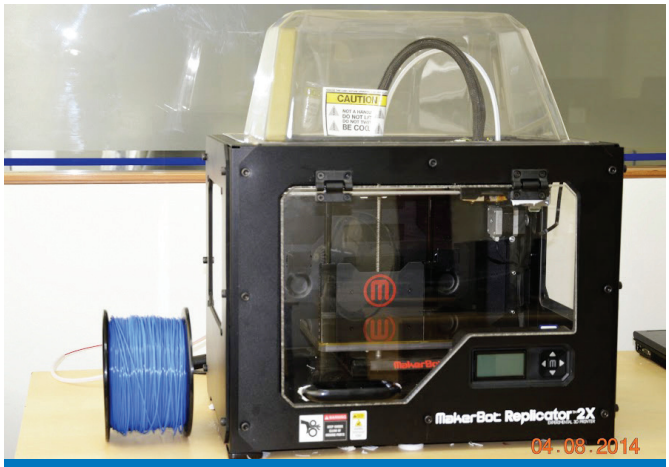
Prof. G. Srinivasaraghavan

Prof. Neelam Sinha

Prof. Madhav Rao

Prof. Subajit Sen

Prof. Sachit Rao

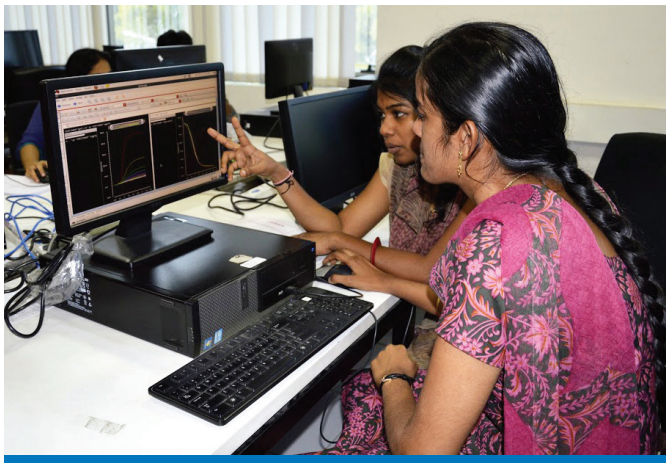


3D Printer in ESDM Lab

Electronics Lab Facilities in HIDES Lab

ESDM Lab

Physics Lab



Research Area for Students in CEEMS Lab

Robotics Platform in CEEMS Lab

COURSES OFFERED

INTRODUCTION

COURSE OFFERED The Institute is a post graduate school, and offers no undergraduate degree programs. The Institute is an exclusive post graduate school that offers programs that lead to post-graduate degrees. The graduate study programs offered lead to course-oriented, 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 oriented, namely, the Master of Science by Research / Master of Science (Digital Society) and the Doctor of Philosophy (Ph.D.). These programs 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 organizations or government agencies are encouraged to pursue part-time research degree programs.

- Integrated M.Tech
- M.Tech (IT)
- M.Tech (ESD)
- M.Sc. (Digital Society)
- Master of Science by Research
- Doctor of Philosophy
- Executive Education (Samsung/ Analytics Essentials)

Integrated M.Tech

IIIT-B introduced Integrated M.Tech. program in 2012. 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). 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). The total number of credits required to full requirements of the program is 204. 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 celective). There will be two streams which will be an umbrella of focus areas. Following are the streams with their focus areas:

CSIS (Computer Science and Information Systems) stream

- Computer Science,
- Database and Information Systems,
- Information Technology and Society
- Software Engineering.

E & CE (Electronics & Communication Engineering) stream

- Embedded System Design,
- Information Technology and Society,
- Networking and Communication Systems.
- Signal Processing.

M.Tech (IT)

M.Tech degree in Information Technology (IT) is intended to provide education for students who wish to work in the IT industry as practitioners. It is awarded upon successful completion of a 4-semester broad-based academic program in IT. going beyond. but incorporating essential elements of, traditional computer science. Apart from imparting technical knowledge, the program teaches managerial and other cognate skills that are essential for a successful career in today's competitive IT industry. All students enrolled in the M.Tech program are residential, full-time students.

Course Structure

The M.Tech. program is a four semester program. The first three semesters of the program 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. program also includes a unique 3-week period during the beginning of the program 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 covering C and Java programming. After the 3-week preparatory term, the first semester of the M.Tech. program consists entirely of required "core' courses.

These teach the new student the common foundational elements required, such as advanced programming principles, mathematical background, algorithms. digital signal processing. databases, fundamentals of software engineering and networking. The second semester builds on this foundation with elective courses. The student now has the freedom to begin specializing in one of several areas such as:

- Computer Science
- Data Sciences
- Networking & Communication and Embedded Systems
- Software Engineering

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 indude 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.

M.Tech (ESD)

IIIT-B started a new M.Tech. program in 2014 offering degree in Electronic Systems Design (ESD). The genesis of this program is to help address the growth of the highly skilled manpower in Chip Design and Embedded System Design needed to support electronics system design and manufacturing (ESDM) in our country, in alignment with the national and state policies to foster growth and entrepreneurship in ESDM as outlined by the Department of Electronics and Information Technology (DIETY) of the Government of India, and the Government of Karnataka. respectively. One emerging area where such skilled manpower will be needed in large numbers is in the domain of Internet of Things (loTs) which is fostering a rapid revolution in different domains such as industrial automation, e-health, mobile communication, smart homes, automotives, space. aviation, railways, agriculture, logistics. consumer electronics, pervasive computing, computer architecture and ambient intelligence. The M. Tech. program in ESD is envisaged to meet the above objectives.

Specializations

The 2-year degree program allows students to specialize in two possible areas:

1. Embedded System Design: This specialization focuses on imparting general principles of designing platform agnostic embedded systems. This includes hardware design, software design. hardware-software co-design and co-synthesis of embedded systems, model based design and synthesis approaches to realizing embedded systems using COTS devices, FPGAs, ASICs and SOCs targeting applications in the diverse areas listed above. Students specializing in this area can draw upon elective courses spanning different areas such as. peripheral devices, device drivers. interfacing, real-time operating systems, digital, image and video signal processing, computer networks, communication networks, robotics, auto-motive% software validation and testing etc.

2. System on Chip (SoC) Design: This specialization focuses on realizing complex embedded systems on a single silicon chip which integrate not only the core digital functionality, but also the analog mixed signal functionalities — an approach warranted when the end applications need embedded systems in millions, such as, smart-phones and point of care diagnostic devices to cite a few. Design approaches to realizing SoCs, while based on the traditional linear and sequential VLSI design flow, differs from it substantially - with 70-80% legacy IPs (soft, hardened. in-house, third party IPs) being integrated with 30-20% new IPs to realize them. For SoCs, front-end RTL design. gate level nellist design, backend physical design. I/O design. test and DFT integration, verification. middleware. firmware and application software development happen, more or less concurrently to reduce design turnaround time. This difference in design flow is emphasized and highlighted in several elective courses. Core and elective courses impart general principles of designing complex digital and analog VLSI circuits and systems. Physics of semiconductor devices, VLSI sub-system design, high-level synthesis, functional verification, formal verification, hardware emulation. testing and design for testability, circuit simulation, deep submicron design, low power design. design optimization, are some of the electives offered in this specialization. Apart from imparting technical knowledge. the program teaches managerial and other cognate skills that are essential for a successful career in today's electronics industry. All students enrolled in the M.Tech program are residential, full-time students.)

M.Sc. (Digital Society)

Recognizing the socio-economic potential of Information and Communications Technologies (1CTs), and the increasing need to train professionals in harnessing this potential, 111T-B has started a unique and innovative two-year M.Sc. (Digital Society) programme from 2015 onwords. M.Sc. (Digital Society) program at IIIT-B prepares students who have an astute understanding of the digital ecosystem. In the Information Age, digital technologies have opened up immense possibilities for economic and social change that is inclusive and sustainable. Designing and deploying digital technologies, analyzing human-computer interaction or big data entail not just technological expertise but also a nuanced understanding of the social, cultural, and economic aspects of the digital society. Students

of the program 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, which will equip them with a rigorous understanding of technologies for development and the development of technologies.

Career Opportunities

The programme is designed to create a group of professionals whowill:

- Contribute to the design, development and deployment of digital technologies for diverse social groups:
- Provide and manage solutions that address persistent developmental challenges in domains such as education. governance, and heath:
- Engage in policy making and in advocacy for deploying digital technologies: and • Enrich interdisciplinary research on the digital society.

Executive Education

IIIT-B has following Continuing Professional Education Programmes:

- Certificate Course in Analytics Essentials.
- Dedicated M.Tech Programmefor Samsung Employees.
- Post Graduate Diploma in Data Analytics.
- Professional Certificate Course in Software Testing.

Master of Science by Research/ Doctor of Philosophy

International Institute of Information Technology Bangalore (IIIT-B) invites applications for its research degree programs, namely, Doctor of Philosophy and Master of Science by Research/ Master of Science (Research) programs, for admissions in JULY of 2016. Both programs have full-time as well as part-time registration options. The students admitted to these programs will be referred to as research scholars. The funding for the fellowships for Ph.D. students will be from government agencies (the specifics will be notified by March 15, 2016), COPAS project (Deity), and industry-sponsored fellowships from ABB and others (Funding sources updated on March 01, 2016). The funding for fellowships for Master of Science by Research will be from various sponsored projects.

Research Domains

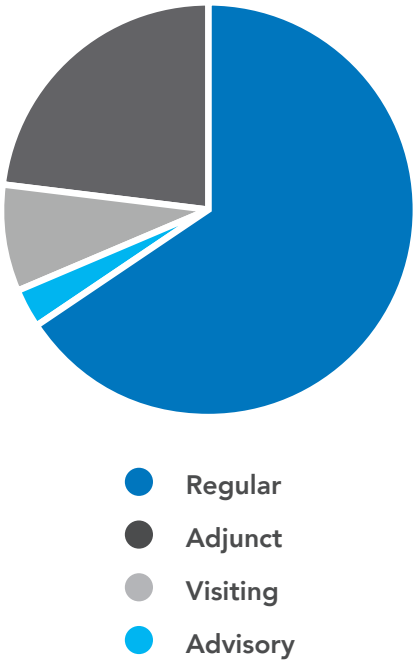
At IIIT-B, there are seven research domains, which have openings for both the degrees programmes, except for Mathematics & Basic Sciences which have openings exclusively for the Doctor of Philosophy Programme.

FACULTY PROFILES

REGULAR FACULTY

Name	Rank
Tricha Anjali	Associate Professor
Balakrishnan Ashok	Associate Professor
Jyotsna Bapat	Professor & Dean Faculty
Sujit Kumar Chakrabarti	Assistant Professor
Bidisha Chaudhuri	Assistant Professor
Ashish Choudhury	Assistant Professor
Meenakshi D'Souza	Associate Professor
Debabrata Das	Professor
K V Dinesha	Professor
Dinesh Babu Jayagopi	Assistant Professor
Manisha Kulkarni	Associate Professor
Jayprakash T Lalchandani	Assistant Professor
Brijesh Kumar Mishra	Assistant Professor
V N Muralidhara	Associate Professor
Jaya Sreevalsan Nair	Associate Professor
Balaji Parthasarathy	Professor
Amit Prakash	Associate Professor
S Rajagopalan	Professor
Chandrashekar Ramanathan	Professor and Dean Academics
Madhav Rao	Assistant Professor
Shrisha Rao	Professor
Subir Kumar Roy	Professor
S Sadagopan	Professor and Director
Subajit Sen	Associate Professor
Neelam Sinha	Associate Professor
Varadarajan Sridhar	Professor
T K Srikanth	Professor
Srinath Srinivasa	Professor & Dean R&D
G N Srinivasa Prasanna	Professor
G Srinivasaraghavan	Professor
Janaki Srinivasan	Assistant Professor
Chetan Parikh	Professor
Shiva Kumar Malapaka	Assistant Professor
Sachit Rao	Assistant Professor
Preeti Mudliar	Assistant Professor
Amit Chattopadhyay	Assistant Professor
Pradeesha Ashok	Assistant Professor
Manish Gupta	Infosys Chair Professor
V Ramasubramanian	Professor
B Thangaraju	Professor

FACULTY



ADVISORY FACULTY

Name	Rank
S S Prabhu	Advisory Professor
Usha Rani Vyasulu Reddy	Advisory Professor

VISITING FACULTY

Name	Rank
P G Poonacha	Visiting Faculty
Roland E Haas	Visiting Faculty
Anjali K Mohan	Visiting Faculty
Samar Shailendra	Visiting Faculty
Radha M Parikh	Visiting Faculty

ADJUNCT FACULTY

Name	Rank
Anantha Rangan	Adjunct Faculty
Joy Prabhakar	Adjunct Faculty
Ramesh Sundararaman	Adjunct Faculty
S Nagarajan	Adjunct Faculty
Tridib Roy Chowdhury	Adjunct Faculty
Muralidhar Koteshwar	Adjunct Faculty
Valsala Rajan	Adjunct Faculty
S V Subramanya	Adjunct Faculty
Vijay Mandar Kulkarni	Adjunct Faculty
Girish K Kumar	Adjunct Faculty
K K Subramaniam	Adjunct Faculty
Sunny Padacheril	Adjunct Faculty
Purushothaman Ramakrishnan	Adjunct Faculty
Vivek Yadav	Adjunct Faculty

FACULTY PUBLICATIONS

Madhav Rao

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FACULTY ACHIEVEMENTS

Our faculty members have been active in teaching, research and outreach.

Professor Jaya Nair received early career Research Award of DST

Dr. Manish Gupta joined us as Infosys Chair Professor early this year

Prof Debabrata Das took over as Chairman IEEE, Bangalore Section in January 2017

STUDENTS & DEAN'S LIST

THESIS LIST - 2017 CONVOCATION

Sl. No.	Roll No.	Name of the Student	Title of the Thesis
1	MS2013006	Banda Gowthami Prasanna	Design of an RSD Cyclic ADC with analysis of effects of Finite gain and capacitor mismatch
2	MT2015510	Arjun Sundaresan	Investigation and Implementation of a 10-bit adiabatic SAR ADC for low power applications
3	IMT2012015	G. Akhil	Novel Information Exchange Mechanism For Interworking In 4g And 5g Networks
4	MT2015013	Anish Bhanushali	Identifying Opinion Drivers on Social Media
5	DT2015007	Tejas Pande	Data, Data Every Where, and Citizens Put It to Use: A Case of Data-Centred Civic Initiatives in India
6	IMT2012012	Daksh Varshneya	Human Trajectory Prediction Using Spatially Aware Deep Attention Models
7	IMT2012053	Yashvanth Kondi	On the Authenticity of Garbling Schemes
8	IMT2012014	Dhananjay Pawan Ravi	An Anonymous Credential System Using Standard Signature Schemes
9	IMT2012021	Karthik S.	Privacy-Preserving Perceptron Learning On Secret -Shared Floating Point Data
10	IMT2012010	Chandan Yeshwanth	Estimating Traffic Density At Inter-Sections
11	IMT2012046	Tanmayee Narendra	Causal Discovery For Closed Systems: The Example Of Aircraft Engines
12	MT2015125	Ved Mathai	Extracting Event Mentions from Text and Anchoring their Occurrences to a Timeline
13	IMT2012044	Sushravya G. M.	Network Grafting: A novel approach to Autonomous Transfer In Deep Reinforcement Learning
14	IMT2012005	Anisha Nazareth	Constructing e-waste: An ethnographic study of an e-waste campaign in south Bangalore

15	IMT2012004	Ananth Murthy	Approximation Algorithms For Vehicle Routing Problems On A Line And A Ring
16	IMT2012043	Susarla Praneeth Kumar	Human-Weapon Activity Detection In Surveil Lance Videos Using Structural-Rnn
17	IMT2012029	Neha Tarigopula	Automatic Analysis Of Table Tennis Strokes Using Rgb Cameras
18	MT2015063	Mayank Sharma	Automatic Evaluation Of Hand-Drawn Face Sketches With Adaptive Feedback To Improve
19	MT2015113	Sujit Kumar Muduli	Contract based development and refinement in Simulink
20	MT2015065	Mohammed Haroon	Active Learning For Automatic Image Anno-tation With Bayesian Convolutional Neural Networks
21	MT2015075	Peeyush Joshi	Paragraph To Paragraph Neural Machine Translation Based On Attention Model
22	MT2015076	Prachi Prakash Mahapatro	An Analysis Of Dynamic Memory Network Method For Machine Comprehension
23	IMT2012039	Sanat R.	Large Scale Railway Timetabling Optimization
24	MT2015015	Anjani Kumar Jha	Stock Market Analysis Using Deep Recurrent Neural Network Models
25	MS2014006	Supriya Dey	The occupation of the IT engineer in India: Looking back to see ahead
26	DT2015006	Priyanka Ivatury	The Social Construction of Paper Based Health Records
27	MS2014002	Mahesh Zanwar	Design of Programmable Output Binary and Fibonacci Switched Capacitor Step-down and Step-up DC-DC Converter
28	MS2012008	Satyabrat Shrikumar	Smoothened Truncation Windows For Mri Image Reconstruction Using Partial Data

At the Convocation

International Institute of Information Technology Bangalore

Dean's List (M.Tech.)

August 2017

The Dean's List at IIIT-B honors the students who have attained a cumulative GPA of 3.75 or above. The list is updated annually.

Batch 2016

Roll No	Name	CGPA
MT2016011	Anjana K	3.85
MT2016021	Archana R	3.98
MT2016040	Chavala Sri Hari Priya	3.94
MT2016043	Chetan Sharma	3.77
MT2016062	Himanshu Vohra	3.75
MT2016068	Jyotsana	3.76
MT2016069	Kanika Narang	3.86
MT2016082	Meghna Ajay Srivastava	3.86
MT2016088	Naik Shivani Shrikant	3.90
MT2016094	Nimrani Alok Ramesh	3.86
MT2016102	Patel Meet Shantibhai	3.92
MT2016120	Sabari Nathan	3.85
MT2016143	Tanya	3.80
MT2016509	K Geethika Praneetha	3.77
MT2016518	Polareddy Bhavani Lakshmi	3.92
MT2016520	Prashanthi S.K	3.92

Prof. Chandrashekar Ramanathan
Dean (Academics)

Prof. Muralidhara V N
Co-ordinator M.Tech. Programme

Prof. Amit Chattopadhyay
Faculty Incharge Fellowship

International Institute of Information Technology Bangalore

Dean's List (M.Tech)
August 2017

The Dean's List at IIIT-B honors the students who have attained a cumulative GPA of 3.75 or above. The list is updated annually.

Batch 2015

Roll No	Name	CGPA
SMT2015014	Kavin Kumar Thangadorai	3.85
SMT2015015	Kishore Shobha Nanda	3.78

Batch 2016

Roll No	Name	CGPA
SMT2016023	Sulochan Naik	3.95

Prof. Chandrashekar Ramanathan
Dean (Academics)

Prof. Muralidhara V N
Co-ordinator M.Tech. Programme

Prof. Amit Chattopadhyay
Faculty Incharge Fellowship

International Institute of Information Technology Bangalore

Dean's List (iM.Tech.)

August 2017

The Dean's List at IIIT-B honors the students who have attained a cumulative GPA of 3.60 or above. The list is updated annually.

Batch 2013

Roll No	Name	CGPA
IMT2013004	Aditya Sanjay Paliwal	3.75
IMT2013008	B.Laasya	3.87
IMT2013012	Devarsh K U	3.82
IMT2013018	Komaragiri Vasundhara	3.68
IMT2013021	Kumaresh Krishnan	3.85
IMT2013025	Meghana M Reddy	3.71
IMT2013027	Nigel Steven Fernandez	3.66
IMT2013030	Pranay Dugar	3.61
IMT2013044	Simran Bimal Dokania	3.74
IMT2013047	Sri Veda Chevuru Reddy	3.64

Batch 2014

Roll No	Name	CGPA
IMT2014004	Ahmad Shayaan	3.74
IMT2014018	G. Neha	3.83
IMT2014024	Indu Ilanchezian	3.93
IMT2014034	Meghana Kotagiri	3.86

Prof. Chandrashekar Ramanathan
Dean (Academics)

Prof. Madhav Rao
Co-ordinator iM.Tech. Programme

Prof. Amit Chattopadhyay
Faculty Incharge Fellowship

International Institute of Information Technology Bangalore

Dean's List (iM.Tech.)

August 2017

The Dean's List at IIIT-B honors the students who have attained a cumulative GPA of 3.60 or above. The list is updated annually.

Batch 2015

Roll No	Name	CGPA
IMT2015002	Abhiramon R	3.76
IMT2015003	Aditya Ankush	3.77
IMT2015044	Utkarsh Agrawal	3.70
IMT2015504	Aparna D. Nair	3.65
IMT2015512	Krishna Nagaraja	3.87
IMT2015517	Pranav Aggarwal	3.70
IMT2015523	Vinay Chandrasekhar K	3.81

Prof. Chandrashekar Ramanathan
Dean (Academics)

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International Institute of Information Technology Bangalore

Dean's List (iM.Tech.)

August 2017

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Batch 2016

Roll No	Name	CGPA
IMT2016001	Gopalakrishnan V	3.82
IMT2016005	Aayush Grover	3.78
IMT2016006	Vishesh Ruparelia	3.71
IMT2016008	Satvik Sunkam Ramaprasad	3.95
IMT2016012	Yelugoti Mohana Datta	3.63
IMT2016024	Shobhit Pankaj Behl	3.88
IMT2016025	Akshi .	3.89
IMT2016045	Shreya Singh	3.71
IMT2016050	Biswesh Mohapatra	3.97
IMT2016052	Aditya Gulati	3.97
IMT2016054	Aditya Shridhar Hegde	3.96
IMT2016057	Lakshmi Manonmaie Pasumarthy	3.66
IMT2016070	Bandaru Mahidhar	3.60
IMT2016072	Nomula Rohith Yogi	3.63
IMT2016082	Nimisha Garg	3.88
IMT2016129	Ananth Shreekumar	3.88
IMT2016110	Dachepalli Soumith Kumar	3.82

Prof. Chandrashekar Ramanathan
Dean (Academics)

Prof. Madhav Rao
Co-ordinator iM.Tech. Programme

Prof. Amit Chattopadhyay
Faculty Incharge Fellowship

CAMPUS EVENTS

CONVOCATION

17th Convocation was held on July 2, 2017. A total of 269 students graduated, consisting of 4 Ph.D, 8 Master of Science by Research, 149 M.Tech, 51 Sponsored M.Tech, 9 M.Sc. Digital Society and 48 integrated M.Tech students. Prof. Indranil Manna, Director, IIT Kanpur was the Chief Guest and Mr. Subhash Chandra Kuntia, IAS, Chief Secretary Govt of Karnataka, was the Guest of Honor

FOUNDATION DAY

IIITB celebrated its 17th Foundation Day on September 15. The Guests of Honour of the events were: Prof. S. G. Deshmukh, Director, IIIT&M Gwalior; Mr. Vickramm V. Sampath, an author/historian/musician, Founder of Bangalore Literature Festival and Archive of Indian Music, and Director, SSMC; Dr. Geetha Manjunath, Head, Data Analytics Research Laboratory, Xerox Research Centre India. The celebration included the Director's welcome speech, speeches by the Guests of Honour, cake cutting, cultural programme and dinner.

RISE 2017

The first edition of RISE 2017 event was conducted over 3 days during April 7-9, witnessed good response from potential students and industry. The Ph.D. colloquium was held on April 7, where eight papers by the Ph.D. scholars were presented. The papers were selected from different areas through an internal review process. The Open House was conducted on April 8, which was attended by around 75 external students as well as working executives from the IT industry.Dr. Rajendra Kumar Bera gave the keynote speech on the day. In his talk, Dr. Bera emphasized on different aspects of research activities. IIIT-B faculty made domain-wise presentations of their research interests and active projects. The Open Studio was held on April 9, and was inaugurated by the Director Prof. S. Sadagopan. Industry luminaries, investors, founders of start-ups, research heads of industry technology labs, and few faculty members shared their experience and thoughts on how research-led innovation can be lucrative for research students as well as faculty alike. Around 70 entrepreneurs and students attended the Open Studio

ALUMNI DAY

IIIT-B organized its Alumni Day on February 4. The faculty, staff and alumni attended the event with their families. The event began with the traditional invocation song and lighting of the lamp followed by the Director's address to the alumni which brought back lots of old memories. The highlight of the event was an inspiring talk titled "Back to Future" by Mr. Yashavant Kanetkar. Mr. Yashavant Kanetkar is known for his books and Quest Video Courseware DVDs on several programming languages. For his contributions in the last two decades towards preparing individuals for IT careers, he has received numerous awards, such as "Distinguished Alumnus" award by IIT Kanpur, "Best .NET Technical Contributor" and "Most Valuable Professional" awards by Microsoft for 5 successive years. Mr. Kanetkar holds a BE from VJTI Mumbai, an M.Tech. from IIT Kanpur and is currently the Director of KICIT Pvt. Ltd. and KSET Pvt. Ltd. The event was followed by the institute updates by Prof. Debabrata Das, Dean Academics, Prof. Chetan Parikh, MIIT Coordinator, Prof. Tricha Anjali, PGDDA oordinator, and Mr. D V Jagadish, IIIT-B CEO. As a promotional event for entrepreneurs, a fireside chat was organized with alumnus Sandeep Sreenath (2011 Graduate), the co-founder of Jiffstore, which has been acquired by Peppertap. The IIIT-B Innovation center was the highlight of the event and various opportunities for alumni contributions were discussed. The event included cultural programme by current students and concluded with networking between alumni and students during lunch. This year's event was special with childcare arrangements for families attending the event, and the facility was organized by student volunteers.

Photo Credits: Team Chhayachitra

US ALUMNI CHAPTER

For the first time in its history, an alumni chapter of IIITB has been launched in USA. This is a landmark event for the Institute, considering its alumni count has gone over 2200. The first chapter has been launched in the U.S.A. Prof. Sadagopan, the founding and current Director, and Mr. D. V. Jagadish, CEO, Outreach, IIITB, graced the launch events. The events were organized by Mr. Udaya Hegde [2001 batch], Mr. Anshu Jain [2005 batch] Mr. Gokul Pillai [2001 batch] and other alumni. The launch events were held in Sunnyvale, CA, on September 24, and Edison, NJ, on September 25. The former was attended by around 90 alumni and families, while the latter, by around 30, who live in the vicinity of the event. Speaking at the events, the Director said that the launch of the U.S. chapter was in celebration of the achievements of IIITB alumni in several avenues. Several alumni are employed at Fortune 500 companies, such as Google, IBM, Apple, HP, etc., and several have pursued or are pursuing doctoral studies in top U.S. universities. The Director also updated the alumni on several new initiatives at IIITB. This event is a step towards strengthening the IIITB alumni network.

WORKSHOPS AND CONFERENCES

The Internet Researchers' Conference 2017 (IRC17) was held during March 3-5 at IIITB. The event was organized by CITAPP (IIIT-B) and Centre for Internet and Society (CIS).

'Decoding the Digital', a 3-day Winter School, was held at IIITB during December 12-14. It was organized by Centre for IT and Public Policy (CITAPP) and supported by Tata Consultancy Services. The main themes were Smart Cities and Social Media. Several students, professionals and academicians from all over the country participated. Positioned at the intersection of social science and information technology, the winter school provided a sneak peek into interdisciplinary perspectives to understand different aspects of the emerging digital society. It drew upon IIITB's research in the area of IT & Society and its pioneering Masters Programme in Digital Society. The Winter School program consisted of lectures, interactive discussions, video screenings and group activities. Besides IIITB faculty members, few sessions were held by guest speakers such as, Hasit Kaji (Digital Impact Square, TCS), Sruthi Krishnan (Fields of View) and Kiran Jonnalagadda (HasGeek). At the end of the 3-day program, the participants presented a poster on a specific aspect of the digital society discussed around the two specific themes.

Workshop on Big Data Engineering- Education, Research and Innovation (BDE 2017) was held during April 18-19 at IIIT-B. Participants were faculties from various colleges around Bengaluru and students from the institute. There were 11 talks by experts from academia and industry. This workshop is a part of a project Co-creation of a Center of Excellence in Big Data Engineering, a collaboration between IIIT-B and City University London, to set up a centre of excellence in Big Data Engineering. The objective of the workshop was to introduce various topics in breadth for the Big Data Engineering Course, spearheaded as a part of the RAEng project, for which Prof. Srinath Srinivasa is the Principal Investigator. Prof. Srinath and his lab, Web Sciences Lab, organized the event.

ITSEC PROGRAM

The first course under the IIIT-B Center for Cyber Security Education and Research (CCSER), called IT Security Essentials (ITSEC) was launched on February 18 at IIIT-B. The Chief Guest of the inauguration was Dr. Sarat Chandra Babu, Executive Director, C-DAC. Other participants included Prof. S. Sadagopan, Director, Prof. R. Chandrashekar, Dean (Academics), Prof. Tricha Anjali, Coordinator, CCSER, Mr. Mohan Ram C., Program Director, CCSER and many industry experts. The course covers basic functions of security set-up with tools and settings for prevention of attacks as well as fixing the breach as quickly as possible using internal resources. The courses will be conducted by IIIT-B faculty along with experts from the industry.

The graduation ceremony for the first batch of the cyber security essentials ITSEC program was held at the Institute on May 20. The Chief Guest was Mr. A Krishnakumar, Director, Andhra Bank, ex-MD, State Bank of India. Attendees included Prof. S. Sadagopan, Director, IIIT-Bangalore, Prof. Tricha Anjali, CCSER coordinator, IIIT-Bangalore, Mr. Mohan Ram and Mr. Rahul Mishra, FISST, and the students.

SPICMACAY

SPICMACAY Bangalore chapter and IIITB organized a Carnatic Chitravina recital by Chitravina N. Ravikiran, accompanied by Charulatha Ramanujam on violin, B. C.Manjunath on Mridangam and Giridhar Udupa on Ghatam at IIITB Campus

IIITB and SPICMACAY Bengaluru chapter jointly organized Bihu Dance by Shri Ranjit Kumar Gogoi and team from Assam on November 9. Along with Shri Ranjit Kumar Gogoi, the team included Chandra Hira on the flute, Ritupan Kachari and Plasbon Saikia on the dhol and Ganga Basumatary,Priyanka Sonowal, Prity Rekha Tamuli and Navarona Borah as dancers.

Photo Credits: Himanshu & Saarang (M.Tech. 2016-18)

GYM INAUGURATION

The Men's GYM (Shape Up) in Bhaskara building and women's Gym (Calorie Bee) in Lilavati-WH1 were inaugurated on January 26 by Ashish (MT2016026) and Prof.G.Srinivasaraghavan respectively

VISITS AT IIIT BANGALORE

A team from the National Institute of Mental Health and Neurosciences (NIMHANS), headed by their Director, Dr. B. N. Gangadhar, visited IIIT-B on January 31, to brainstorm with the IIIT-B faculty team led by the Director, Prof. S. Sadagopan, on areas of potential collaboration between the two institutions. The NIMHANS team included Dr. Sekar (NIMHANS Registrar), Dr. Girish, Dr. Muralidhar and Mrs. Sindhu. This meeting was a follow-up of the MoU signed between the institutes in December 2016.

VISITS AT IIIT BANGALORE

One hundred students and twenty teachers of various Navodaya Vidyalayas located in South India (Southern Region Schools) visited IIITB on December 2. The visit was an event organised as part of National Science Congress. The students visited the various laboratories of IIITB and they had interactive sessions with Profs. S. Sadagopan, Debabrata Das, Jyotsna Bapat and R. Chandrashekar.

Dr. Haripriya Rangan, Associate Professor and Director, Research and Academic Programmes, Australia India Institute, Melbourne, headed a delegation of three faculty members from the University of Melbourne and Monash University that visited IIIT-B during March 16-17. The University of Melbourne delegation included Profs. Rachel Fensham (Culture and Communication), Frank Vetere (Computing and Information Systems), and Sean Maynard (Computing and Information Systems). The Monash University delegation included Pro Vice Chancellor Mohan Krishnamoorthy and Prof. Ann Nicholson (Information Technology). The delegation came to explore the possibilities for broad-based collaboration, especially academic collaboration with the M.Sc. (Digital Society) degree. Profs. Nicholson and Krishnamoorthy delivered talks on Bayesian Networks and on Applied Operations Research, respectively, on the 17th.

CULTURAL EVENT

In an attempt to promote world heritage, SPIC MACAY IIIT-B chapter presented Balázs Fülei, a renowned pianist from Hungary on March 15. He played piano pieces, where most of them were composed by Franz Liszt, a 19th century revolutionary virtuoso pianist. During the performance, he explained to the audience each piece, narrated the story and emotion behind it, before playing the piece on the piano.

Photo Credits: Saarang (M.Tech. 2016-18)

DAYS CELEBRATED

IIITB celebrated the 70th Independence Day of India on August 15. The event was graced by Prof. S. Sadagopan, Director, IIITB, Faculty members and Sftaffs. After the flag hoisting, the Director, Prof. S. Sadagopan, gave an inspiring speech, which was followed by patriotic speech and song by the students.

Students organized and celebrated Freshers's day on August 27 to informally welcome incoming batches of iM.Tech. M.Tech. and M.Sc. students on-campus. The event included cultural activities and fun games.

The festival of Onam was celebrated on September 17 on campus. Students donned the traditional wear for the occasion. Several fun games were planned, which included Three Legged Race, Tug-of-War etc.

Photo Credits: Khanjan (M.Tech. 2016-18)

Makara Sankranthi and Lohri were celebrated by students of IIIT-B with a bonfire on January 13.

The 68th Republic Day was celebrated on January 26. For the proceedings of the event were organized by the Registrar and the Physical Instructor. The flag hoisting was performed by the Director, Prof. S. Sadagopan. This was followed by the national anthem, after which the Director addressed the gathering. M.Tech students, Tanya, and Rahul gave speeches on the importance of the Constitution of India and the citizen's duties towards the nation. The celebration ended with a patriotic song by the student group. Members of the Faculty, Staff, and Students joined the celebration.

The third International Yoga Day was celebrated at IIIT-Bangalore on June 21. The celebration started with lighting of the lamp after which we formally welcomed the guests of the day Ms. Bhagya Sree (Yoga Practitioner), Ms. Deepthi Priya N. S. (Trainer Heartfulness) and Mr. Sriram Munagala (Coordinator Heartfulness). Deepthi spoke on the Introduction to Meditation along with relaxation and practical experience of Heartfulness Meditation. Bhagya Sree explained the importance of yoga in daily life. This was followed by a demonstration of Yoga Asanas by Bhagya Sree, who also spoke of the benefits of the various Asanas. Students, faculty and staff members participated in the yoga session. The programme was concluded with a formal vote of thanks by Prof. Chandrashekar Ramanathan, the Dean-Academics.

The International Women's Day 2017 was celebrated worldwide on March 8, with the theme "be bold for change." At IIIT-B, the day was celebrated on March 15 with screening the movie, "Nil Battey Sannata," a debut direction by Ashwini Iyer Tiwari.

CAMPUS VISITORS

AUGUST 2016

- August 3: Mr. Alen Bennett, Apple Education Initiative A-PAC Head.
- August 5: Mr. Raghu Hiremagalur, Head of Engineering, LinkedIn Bangalore.
- August 16: Mr. Sanju Dominic, International Officer (South Asia), Marketing, Recruitment & International Office.
- August 19: Mr. Mukul Kanitkar, Bhartiya Shikshana Mandali. August 30: Prof. Shalini Urs, Executive Director, International School of Information Management, University of Mysore, Manasagangotri.

OCTOBER 2016

- October 13: Prof. Srinivasan Krishnamachari, Distinguished Professor of Information Technology, Dept. of Information Technology, Central Institute of Technology, Kokrajhar, Assam.

NOVEMBER 2016

- November 3: Prof. Simon Gay (Professor, School of Computing Science) and team, University of Glasgow
- November 11: Mr. Raghu Radhakrishnan, CEO & President, TmaxSoft Technologies Pvt Limited
- November 17: Mr. Bhavesh Trivedi, Director (DPA), MEA
- November 22: Dr. C. V. Madhukar, Omidiyar
- Novemeber 25: Mr. Vivek Kulkarni, IAS(R) Chairman, Brick Works & Ms. Rajee

DECEMBER 2016

- December 2: Mr. Vaitheeswaran, startup mentor and founder-CEO - IndiaPlaza
- December 9: Mr. Dominic McAllister, British Deputy High Commissioner to Karnataka.
- December 12: Prof. Mohan Krishnamoorthy from Monash University
- December 14: Mr. Gopala Krishna, MD, Maxim
- December 19: A team from Continental Automotive GmbH, headed by Dr. Vivek Venkobarao and Mr. Ganesh S. Ra

JANUARY 2017

- January 6: Dr. Mohan Sitaram & Team, SUBEX
- January 9: Dr. Sujatha Ramadorai, University of British Columbia, Canada

FEBRUARY 2017

- February 1: Dr. Gangadhar, Director, NIMHANS and team
- February 2: Dr. Ashish Surekha, ABB Research
- February 2: A delegation from University of Twente, the Netherlands
- February 6: Mr. Nikhil Tiwari, Senior Manager – Enterprise Business, AMD
- February 7: Mr. Rajkumar Srivatsav, IFS, MD KEONICS

APRIL 2017

- April 3: Mr. Narashimha Raju, IAS
- April 4: Mr. Srinivasalu, IFS, BRADCL
- **April 6: A delegation led by Wei-Chung Wang, PH.D.P.E. Professor, National Tsing Hua University, Taiwan, Republic of China.**

- April 7: Mr. Prakash, IAS, GSTN
- April 9: Dr. Manoj Arora, Director, Chandigarh University.
- April 12: Prof. Lakshmi thathachar, President Samskriti Foundation, Mysore.
- **April 25: Delegation from Indonesia**

- April 26: Mr. Kaushal Sarda, Founder, Kuliza.
- April 27: Mr. Shankar Iyer- Sixth Energy Technology Private Limited.
- April 27: Mr.Tarun Arora, CEO and Bussiness Head of GISTMettl

MAY 2017

- May 2: Student from Bangalore Science forum summer school.
- May 2: Dr. Anup K Pujari, IAS
- **May 18: Delegation from African Development Bank.**

JUNE 2017

- June15: Ms. Anupam Agrawal, Sandeep Oberoi, TCS.
- June 15:Prof. Ashok Srinivasan, Florida State University.
- June 16: Mr. T.K. Srirang, Senior General Manager & Head – Human Resources ICICI Bank Ltd and Governing Body Member of IIIT-Bangalore.
- **June 17: Ms. Bombay Jayashri accompanied by Mr. Ramanathan, Mr. Vikram Sampath, and Mr. Rickey Kej. Mr. Kej was part of the Grammy 2016 winning album "Grace".**

- June 19: Dr. Nipun Kwatra, Co-founder, Chekkoo Technologies.

JULY 2017

- July 5: Professor. Rangachar Kasturi from USF, Florida
- July 6: Shri. Bhavesh R Trivedi, Shri. Vikram Singh Ministry of External Affairs Govt. Of India
- July 10: Prof. L Prasad, IIMB
- July 19: Naina Agarwal Talent Acquisition Manager- Early careers INTUIT
- July 19: Mr. Krishna Kumar, CEO Simplilearn
- July 19: Dr. Nanditha Rao
- July 21: Ms. Seethalakshmi, Metro Editor Times of India
- July 26: Mr. Balasubramanya Ramaswamy, CFO - Fidelity Business Services and Mr. Nirbhay Lumde, Head - CSR & Grant Marketing India
- July 31: Mr. Krishnakumar Natarajan, Mindtree

GUEST TALKS

September 2016

September 7, 2016	"Wireless and Social Networks: Some Challenges and Insights" by Mr. Albert Sunny, CSA, IISc
September 16, 2016	"Technology for Social Justice" by Dr. Prasad Ram, Founder & CEO of GOORU.

September 21, 2016	"Work & Happiness" by Dr. Kalakanda Prabhu, ISKCON
September 28, 2016	"SDR for Modern Wireless Communication System Design," Dr. Indranil Hatai, School of VLSI Technology, IIEST, Shibpur.

October 2016

October 19, 2016	"High-Speed Integrated Circuits for Analog Domain Signal Processing Based DP-QPSK Receivers" by Dr. Nandakumar Nambath Purushothaman, Department of EE, IIT Bombay.
October 19, 2016	"Frugal Innovation for Complex Problems" by Dr. Ramesh Kumar, STO, Eduquity.
October 26, 2016	"Business Transformation with Digital Technologies" by Sharad B. Nalawade, former Director – Business Transformation at Cisco Systems

October 26, 2016	"Isotropic Heisenberg spin-1/2 chain" by Dr. Pulak Ranjan Giri, the International Institute of Physics, UFRN, Natal, Brazil

November 2016

November 16, 2016	Dr. P. S. Sai Krishna, from BITS Pilani (Hyderabad Campus), on "Identification and Control of Cloud Computing Systems"
November 23, 2016	Dr. Arnab Kumar Biswas, from the Department of Electronic Systems Engineering of the Indian Institute of Science, on "Securing Multiprocessor Systems-onChip"
November 30, 2016	Dr. Srinivas Vivek Venkatesh, from the Cryptography and Information Security group at the University of Bristol, UK, on "Securing Cryptographic Implementations against Side-Channel Attacks"

January 2017

January 18, 2017	"Institutional innovation in Brazil: successful ag-in-dustrial cases" by Dr. Jose Eustaquio Ribeiro Vieira Filho, Research Analyst at the Institute of Applied Economic Research (IPEA-Brazil)
January 25, 2017	"Aadhaar, Demonetisation and the Poor: A View from the Field" by Dr. Silvia Masiero, Lecturer, the International Development at Loughborough University, United Kingdom.

January 30, 2017	"Indian Contribution to Digital Technology" by Dr. ShivanandvKanavi, an Adjunct Faculty Member, National Institute of Advanced Studies (NIAS), Bengaluru and Consulting Editor of India's premier Business Magazine, Business India and frequent contributor in Business India, Rediff.com, and Prajavani (Kannada).
January 31, 2017	"Business Transformation driven by IoT" by Mr. Amitabha Saha Roy, Global Practice head, CRM for Consumer and Retail industry, TCS.

February 2017

February 1, 2017	"Experiments with Empathy," by Mr. Ram, co-founder and CEO, Rand De and Habba.
February 8, 2017	"Changing Soundscapes- History and evolution of sound recording in India" by Mr. Vikram Sampath, author/historian/musician, Founder of Bangalore Literature, Festival and Archive of Indian Music, and Director, SSMC.

February 15, 2017	Guest talk by Mr. Viraj Tyagi (CEO) and Ms. Kanta Mishra (VP- Marketing and Advocacy), eGovernments Foundation.

March 2017	
March 15, 2017	"Estimation of respiratory pattern from video using selective ensemble aggregation" by Dr. A. P. Prathosh, Research Consultant, Cocoon Cam
March 15, 2017	Talk at the Turiya Club on "Self-Management" by ISKCON
March 17, 2017	"Bayesian Networks" by Prof. Ann Nicholson, Deputy Dean in the Faculty of Information Technology at Monash University
March 17, 2017	"Applied Operations Research" by Prof. Mohan Krishnamoorthy, Pro Vice Chancellor (Industry Partnerships) and Professor of Operations Research in Mechanical and Aerospace Engineering Department, Monash University.
March 22, 2017	Talk at the Turiya Club on "Yoga for Modern Age" by ISKCON

April 2017	
April 4, 2017	"Security and Privacy in Health Databases: Issues and Approaches," by Ms. Swapnil Shrivatsava, CDAC.
April 5, 2017	"Tech Entrepreneurship" by Dr. Pravin Bhagwat, Co-founder & CTO, Mojo Networks, Inc.(http://www.mojonetworks.com/)

April 10, 2017	"Emerging issues in healthcare - from the perspective of a company like Siemens and the India context." by Mr. Arun G., Siemens Healthcare
April 12, 2017	"Magical Thinking: What Documentation of Identity Achieves" by Ms. Julia Harrington Reddy, Open Society Foundations.
April 12, 2017	"The Mystery of Happiness" by ISKCON (Organised by Turiya Club)
April 17, 2017	"IT in Hospitals - Managing Imaging and other Large Data Sets" by Dr. Aravind Gowda, NIMHANS.
April 1, 2017	"Applications of IBM Watson in Healthcare" by Dr. Subrahmaynam Guttina, Ph.D, Senior Consultant Watson Health
April 19, 2017	"Time Management" by ISKCON (Organised by Turiya Club)
April 24, 2017	"Medical Simulation: An Outlook through Endoscopy Simulations," by Drs. Shantanu Chakravarthy and Nithin Shivshankar, co-founders of Mimyk Inc., a tech start-up from IISc
April 26, 2017	"Performance Analysis of Cloud Radio Systems," by Dr. T. V. Sreejith, Networks and Stochastic Systems Lab at Indian Institute of Technology Madras

May-June 2017

June 14, 2017	"Moving towards Predictive Analytics in Real Time in Intensive Care Units" by Prof. Rishikesan Kamaleswaran, the Center for Biomedical Informatics and Division of Critical Care Medicine at the University of Tennessee Health Science Center.

July 2017

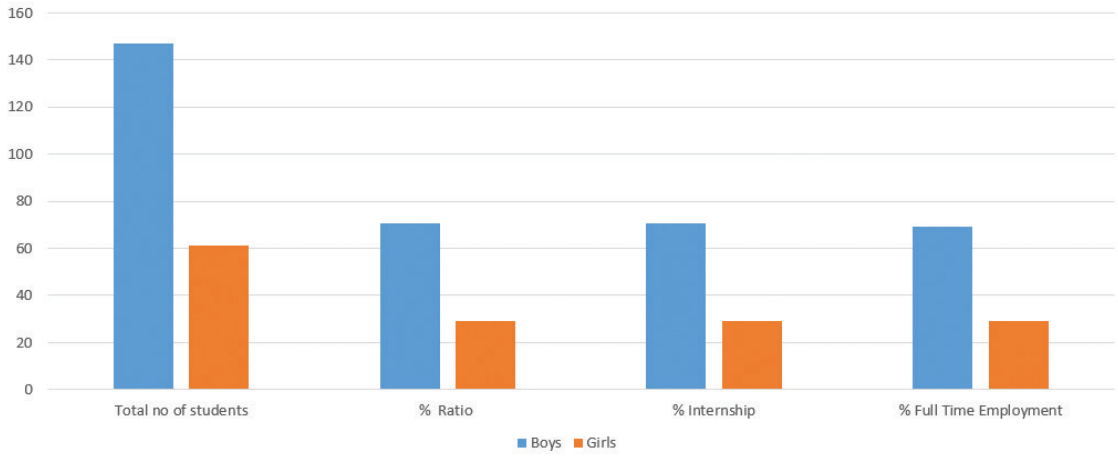
July 19, 2017	Mr.Rohit Bansal, Co-founder, Sahaj Software Solutions
July 20, 2017	Bill Thies, Microsoft Research India/Everwell Health Solutions
July 24, 2017	"Startups - Building sustainable brands and marketing functions" by Deepak Nachnani, Founder, CEO, Coviam Technologies.
July 25, 2017	Shubhranshu Choudhury, Founder, CGNet Swara, (Skype Session)
July 26, 2017	Ms. Pavithra Y.S., Managing Director, Vindhya e-Infomedia Pvt. Ltd.

July 26, 2017	Mr. Akshay Bharadwaj, and Mr. Deepak Sawant, Senior Product Managers, Adobe Systems
July 26, 2017	Mr. Dipendra Manocha,Vice-President, National Association for the Blind; Managing Trustee, Saksham Trust (Skype Session)
July 27, 2017	Manish Pillewar, Experience Designer, Sahaj Software Solutions
July 28, 2017	"Using Social Accountability Tools to include Citizen Voices in Public Service delivery" by Dr. Meena Nair, Head, Participatory Governance Research Group, Public Affairs Centre
July 28, 2017	Dr. Brian DeRenzi, Senior Lecturer, University of Cape Town
July 31, 2017	Mr. Krishna Kumar Natarajan, Executive Chairman, Mindtree

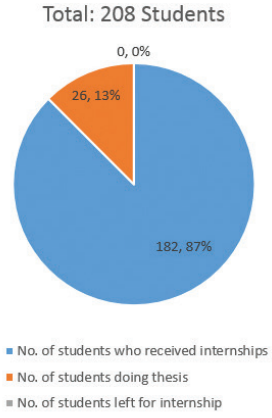
OUTREACH

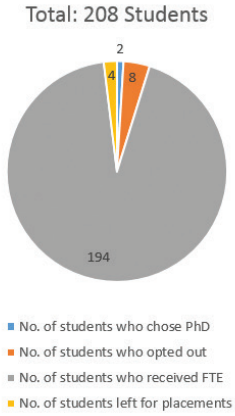
Placement

Gender Stats for Full Time Employment

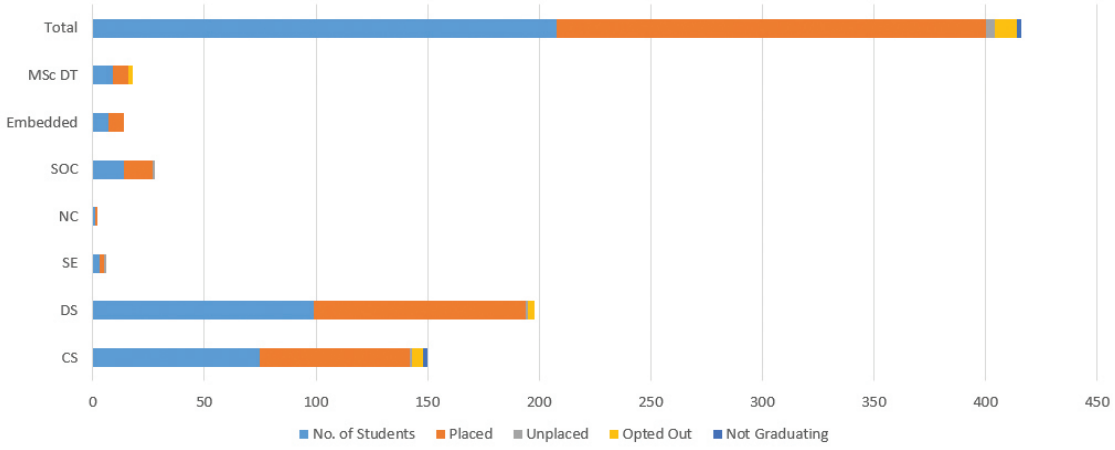


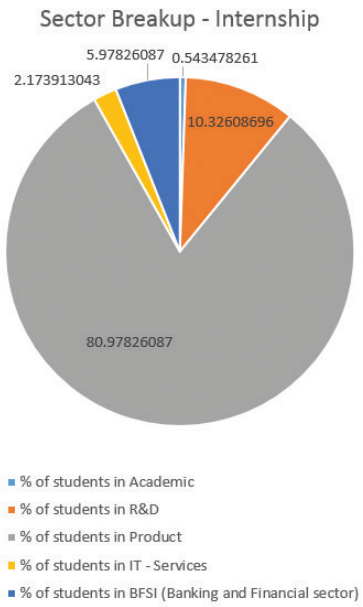
Internship and Placement Stats

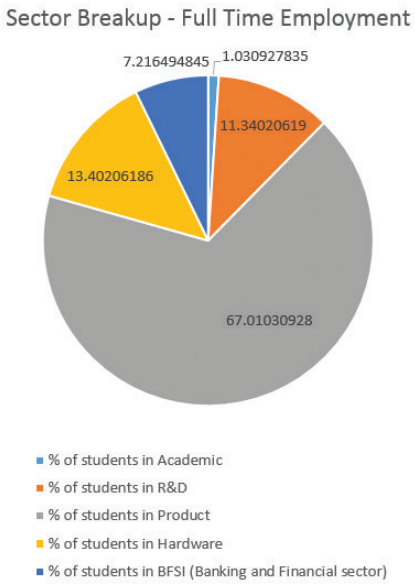




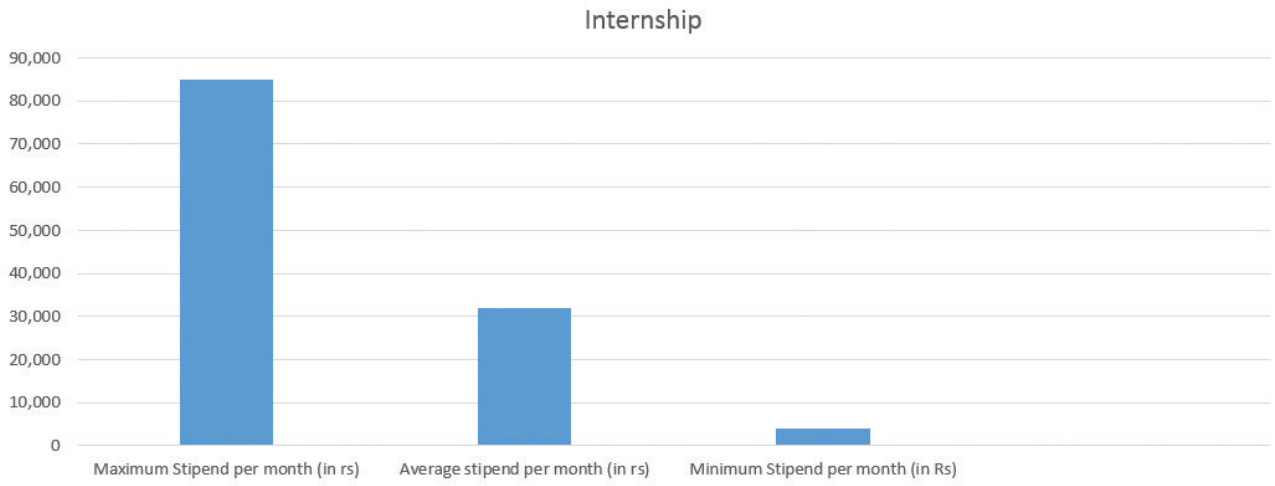
Branchwise Stats



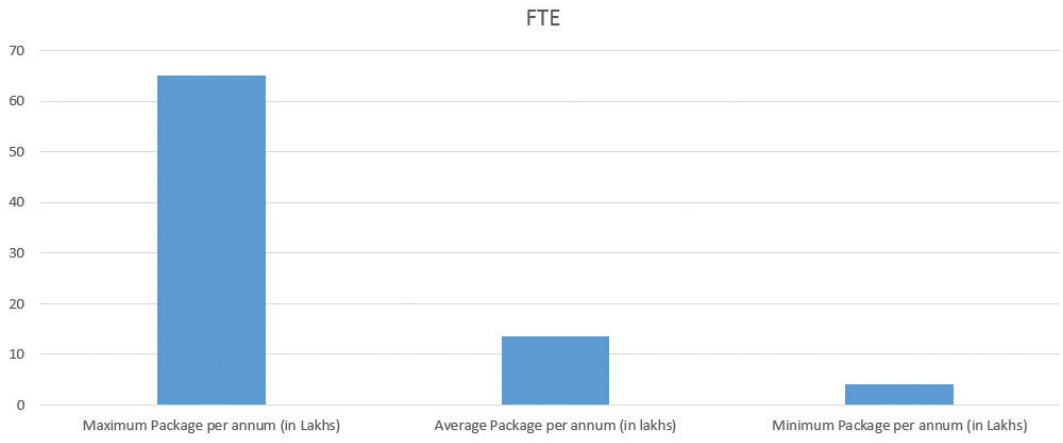




Internship Salary Stats



FTE Salary Stats



Joint Research & Consultancy

Since its inception, outreach has played a vital role in bringing together Government Agencies, Universities, Industry, faculty and students for research projects, resulting in important contributions to design and development of the implementation of ICT in the country and across the world. The consultancy service of Ill T-B facilitates, coordinates and administers Sponsored and Consultancy projects. It also identifies and protects IP rights and manages transfer of technology and commercialization.

Various types of consultancy are undertaken including:

- **Technology assessment / management, project assessment**
- **Product/ process design/development**
- **Simulation / modeling/ optimization**
- **Software development**
- **Retainership of faculty in advisory capacity over specified periods**
- **Troubleshooting/ testing**

Alumni Program

Alumni represent another very important stakeholder community for the institute and its future. We have around 2,000 alumni who are in leading companies as well as successful entrepreneurs. We connect with our alumni in various ways such as research collaborations, star lectures by distinguished achievers, mentorship activities and knowledge sharing sessions with current students. Alumni activities are run by the Alumni Council, a body elected by the registered alumni supported by the student alumni committee.

Executive Education for IT Professionals

We have various customized and calendarised executive education programmes for the working IT professional. One such is the three month weekend certificate course on Analytics Essentials. IIIT-B has conducted programmes specifically tailored for the requirements of several companies. IllT-B is currently conducting an M. Tech. programme for the employees of Samsung.

Scholarships

Scholarships are available for all Ph.D. and Masters of Science by Research students. They are also available to approximately 15- 20% of the M. Tech. students and to approximately 25% of

iM.Tech. students. The selection based on student accomplishments in academic as well as other areas and interviews. We welcome Industry to offer scholarships to our students.

Advisory Board

Many members of the industry are a part of our advisory board where they share their views and ideas in order to help the institute understand the current trends and needs of the industry.

Corporate Social Responsibility

Industry is invited to support the Institute as part of its CSR initiatives. Apart from our educational activities, our incubation centre (Ill T-B Innovation Centre),

founded in 2009, is eligible to receive funds under the definition of CSR as per the law. It has already graduated around a dozen startup companies, and is currently incubating several technology startups in areas such as Medical Devices, Aadhaar based devices for financial inclusion, social media and smart metering solutions.

IIIT-B is among the earliest to be set up in the Public Private partnership model. The government of Karnataka supported us with gift of land and grants for buildings. The industry has supported with corpus donations, chair professorship, scholarships and support for research. We do not receive any grants from government for operating expenditure. still we are able to maintain a moderate student fees due to the support we receive from industries in the form of CSR.

The industry can account for this expenditure under the mandated CSR activity. In case the industry does not want to use CSR funds, but account the grant/ donation as expenditure in the books of accounts, the industry will get benefits under section 35 (l) (2) of the IT act which enables the industry to account 175% of the donation as allowable expenditure and reduce the income tax substantially.

INNOVATION CENTRE

IIIT Bangalore Innovation Centre is a hub for Information and Communication Technologies (ICT) research, innovation and entrepreneurship. It supports and incubates new ventures from startup entrepreneurs working on innovative ideas. It promotes commercialization of IP generated by faculty and students of the Institute by incubating their ventures.

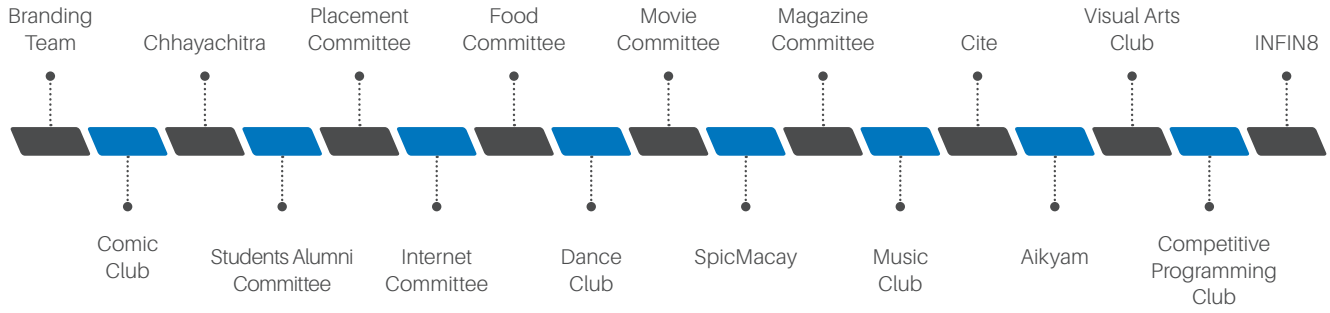
The Innovation Centre has a close association with the industry with the latter setting up R&D Centres for collaborative research. Supported through government funding and CSR initiatives of the corporate companies, the Innovation Centre has a vibrant end-to-end ecosystem - office infrastructure, mentorship, and access to the industry - for incubating new age companies.

Incubation

A Section 25 company under the Companies Act, the Innovation Centre provides an end-to-end ecosystem for incubating technology-driven startups. Over the years, the Innovation Centre has incubated a number of successful startups.

Startups	50+	80+	New products/services brought to market
Full-time jobs created	300+	10+	Startups raised funding

COMMITTEES & CLUBS



Student Alumni Committee

Branding Committee

Chhayachitra

Placement Committee

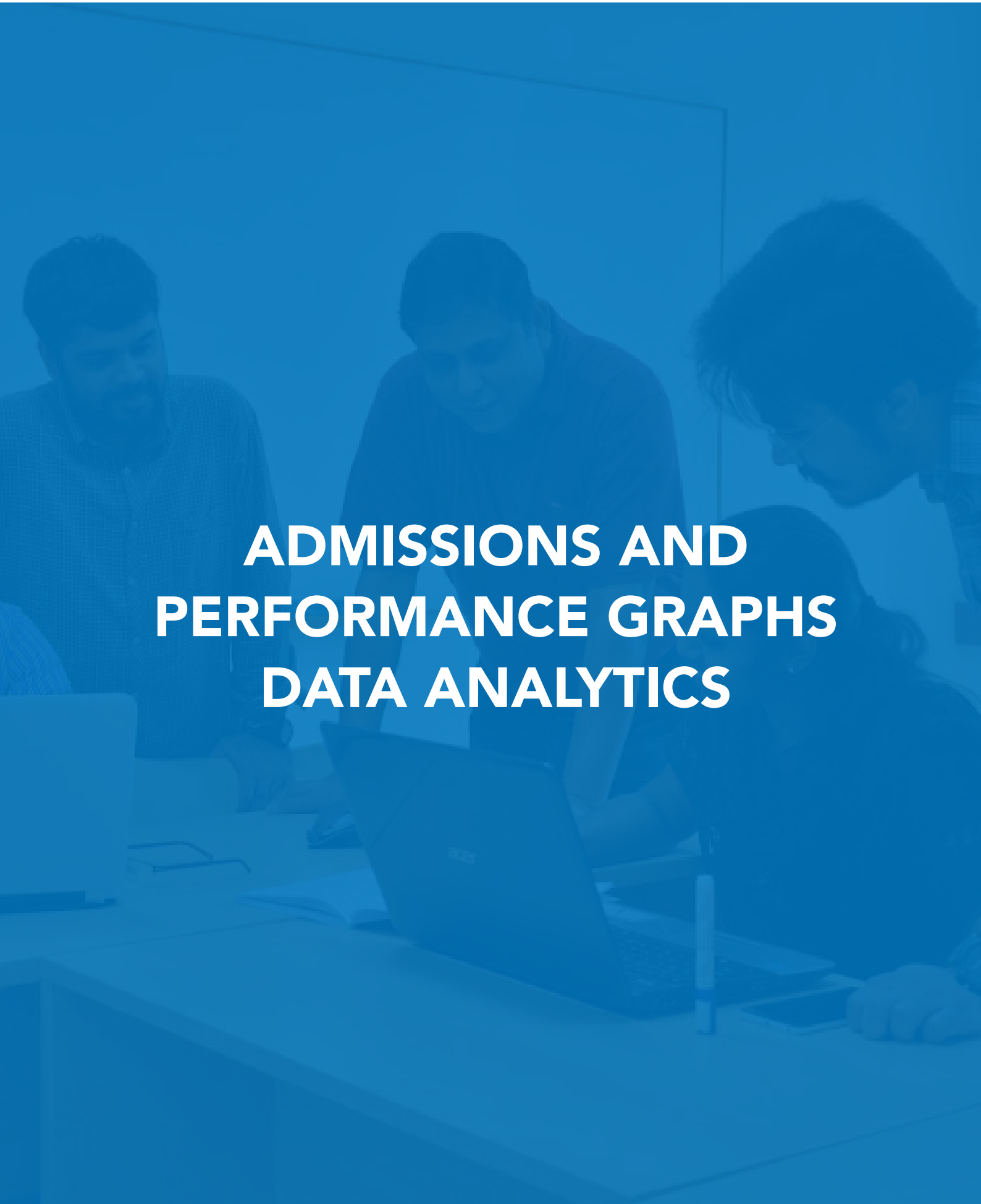
MEMORANDUM OF UNDERSTANDING BETWEEN

NATIONAL INSTITUTE OF MENTAL HEALTH AND NEUROSCIENCES (NIMHANS)

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, BANGALORE (IIIT-B)

MEMORANDA OF UNDERSTANDING

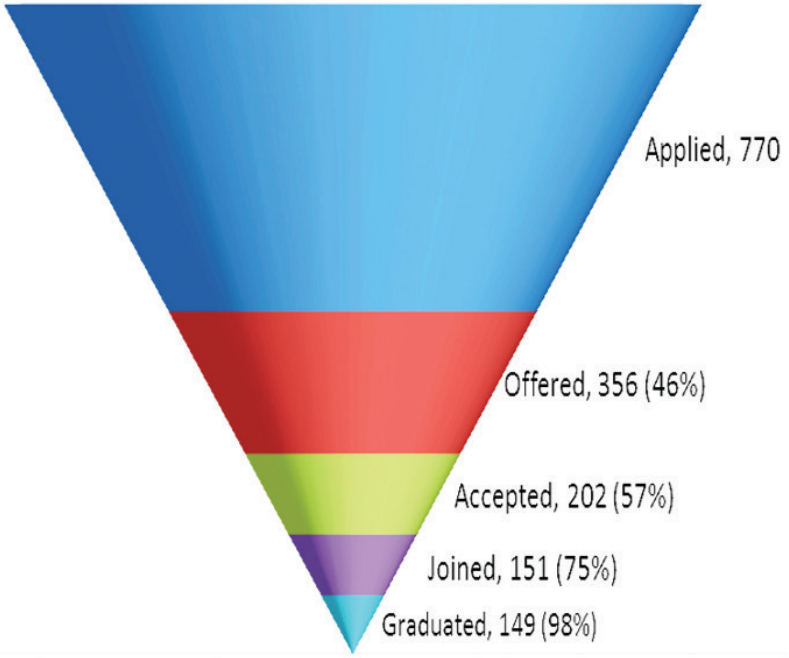
S. No	Name of Agency	Date signed	Description / Area	Agreement Expiry Date
1.	Forensics Intelligence Surveillance and Security Tech.	August 05, 2016	Research - Establishment of Center of Excellence for (CoE) National Initiative for Cyber Security Education Research (NICSER)	August 04, 2019
2.	Huawei Technologies India Pvt. Ltd. Bangalore	March 15, 2016	Research & Setting up of an ICT innovation Lab.	March 14, 2019
3.	Samsung R&D Institute India Bangalore	October 04, 2016	Renewal of MoU for conduct of two year M . Tech Programme for Samsung employees.	September 30, 2018
4.	NIMHANS, Bangalore	December 05, 2016	Joint Research/ collaborative efforts in the field of Neuro Sciences and IT	December 04, 2019
5.	Central University of Rajasthan	March 20, 2017	Collaboration for 2 year M Sc / MA in Digital Society Programme	March 19, 2022
6.	Continental Automotive components India Pvt.Ltd.	March 30, 2017	Non-Disclosure Agreement to conduct Software Design Development, documentation, Verification	March 29 2022
7.	eGovernments Foundation	February 20, 2017	Non-Disclosure Agreement to evaluate Research and Development opportunities of mutual interest.	February 19, 2018
8.	U Education Management Pvt. Ltd. Upgrad	May 05, 2017	Amendment to existing MoU on conduct of online programme of PG Diploma in Data Analytics.	May 30, 2021
9.	Archive of Indian Music	June 05, 2017	Establishment of Branch Office to digitally archive Indian Music	June 04, 2017
10.	Cogknit Semantics Pvt. Ltd. Bangalore	February 15, 2017	Consultancy/ Research in IT	June 15, 2017



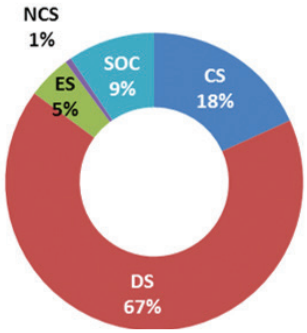
ADMISSIONS AND PERFORMANCE GRAPHS DATA ANALYTICS

M.Tech. Class 2017

Batch Funnel



Specialization

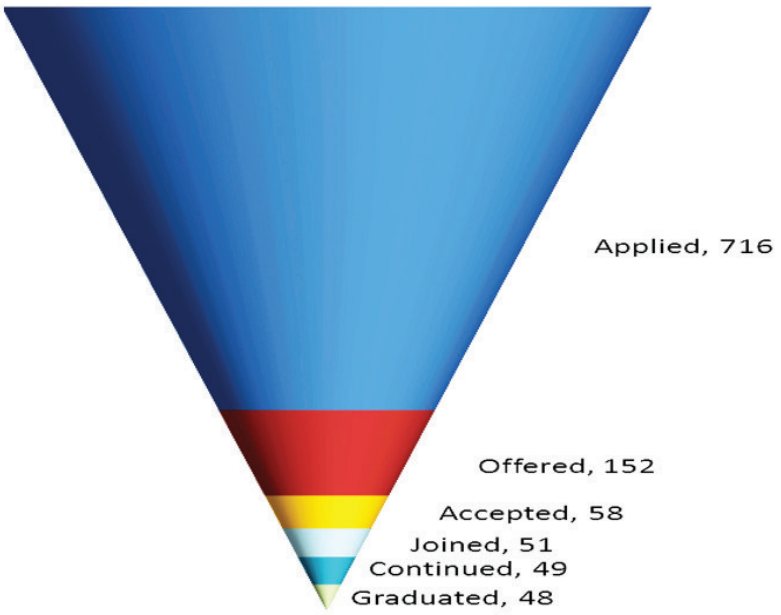


149 Students

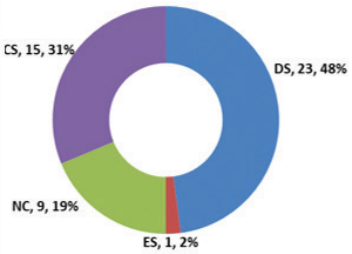
Applied	770	
Offered	356	46%
Accepted	202	57%
Joined	151	75%
Continued	150	99%
Graduated	149	99%

Integrated M.Tech. Class 2017

Batch Funnel



Specialization



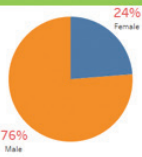
48 Students

Applied	716	
Offered	152	21%
Accepted	58	38%
Joined	51	88%
Continued	49	96%
Graduated	48	98%

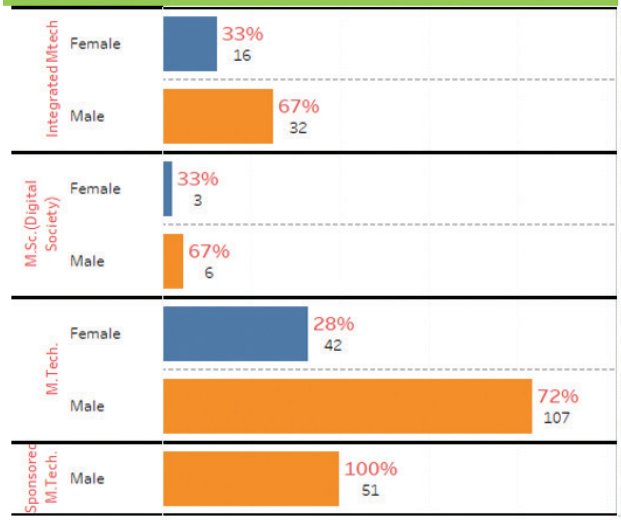
Diversity

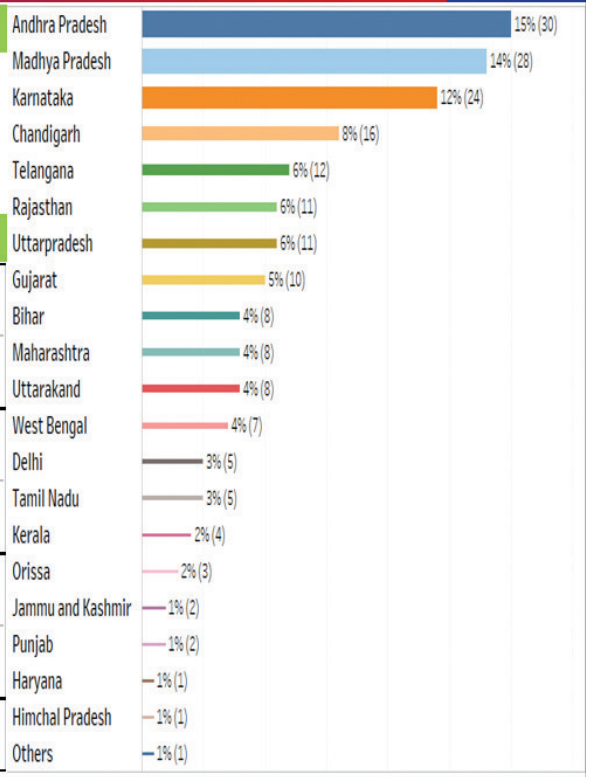
Overall Gender Distribution

24% Female
76% Male

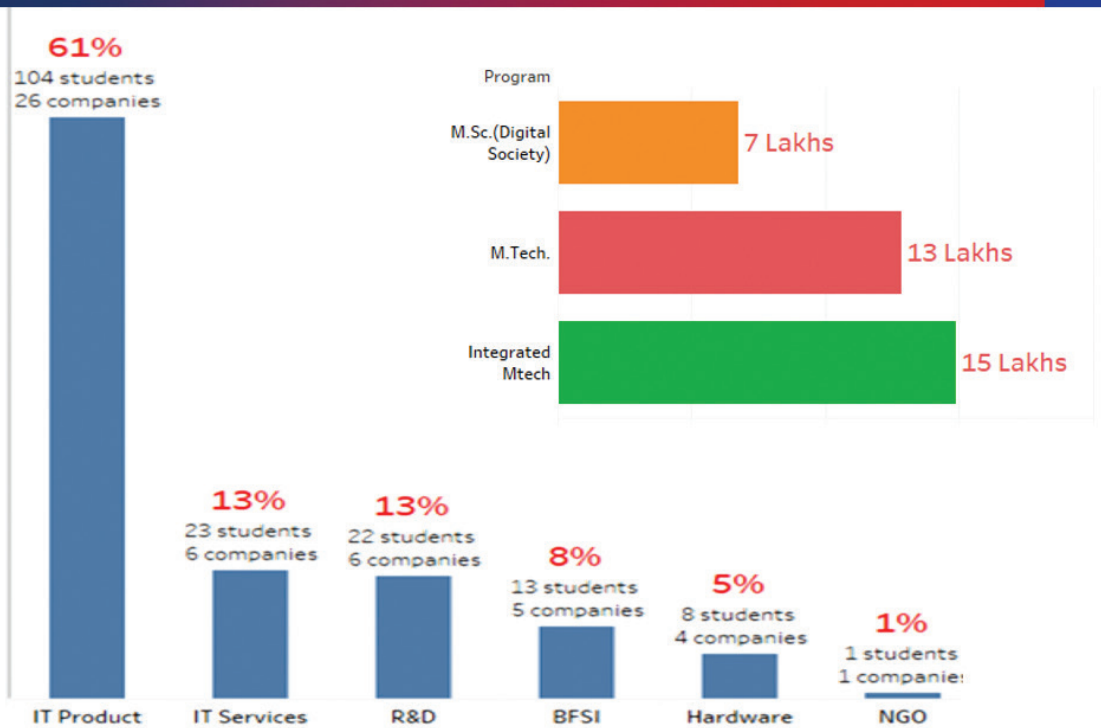


Programme-wise Distribution

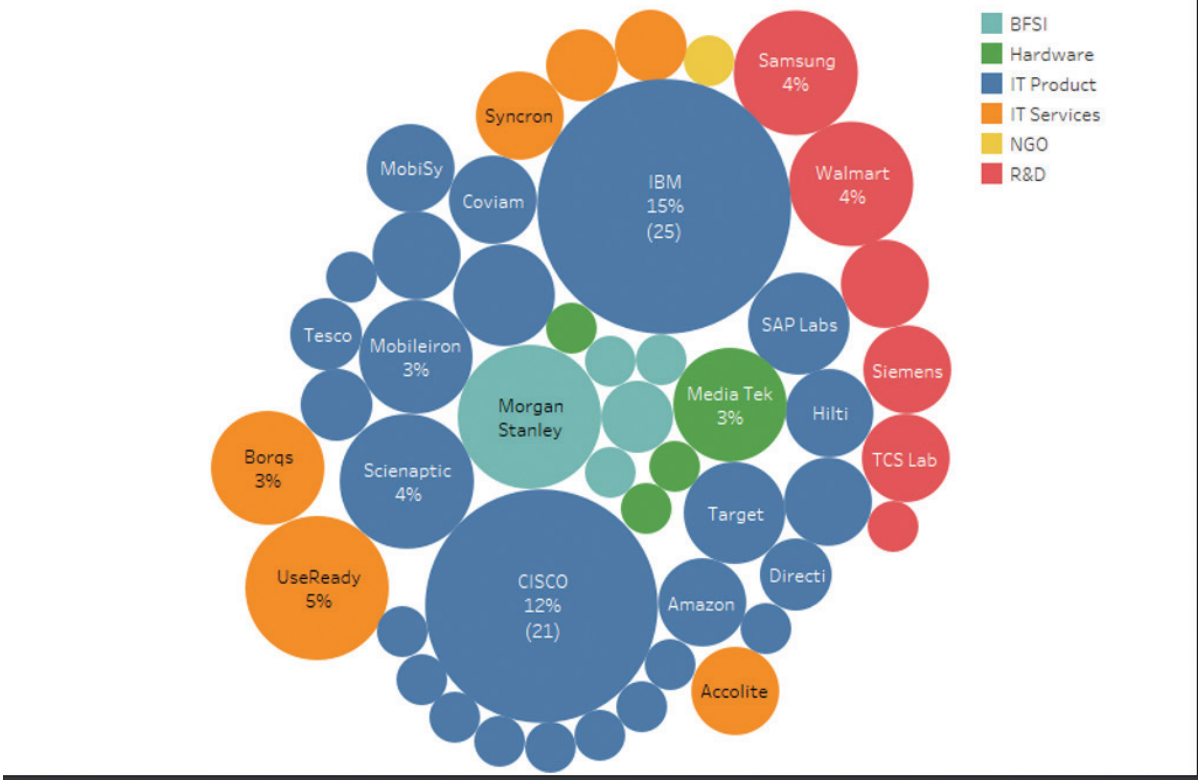


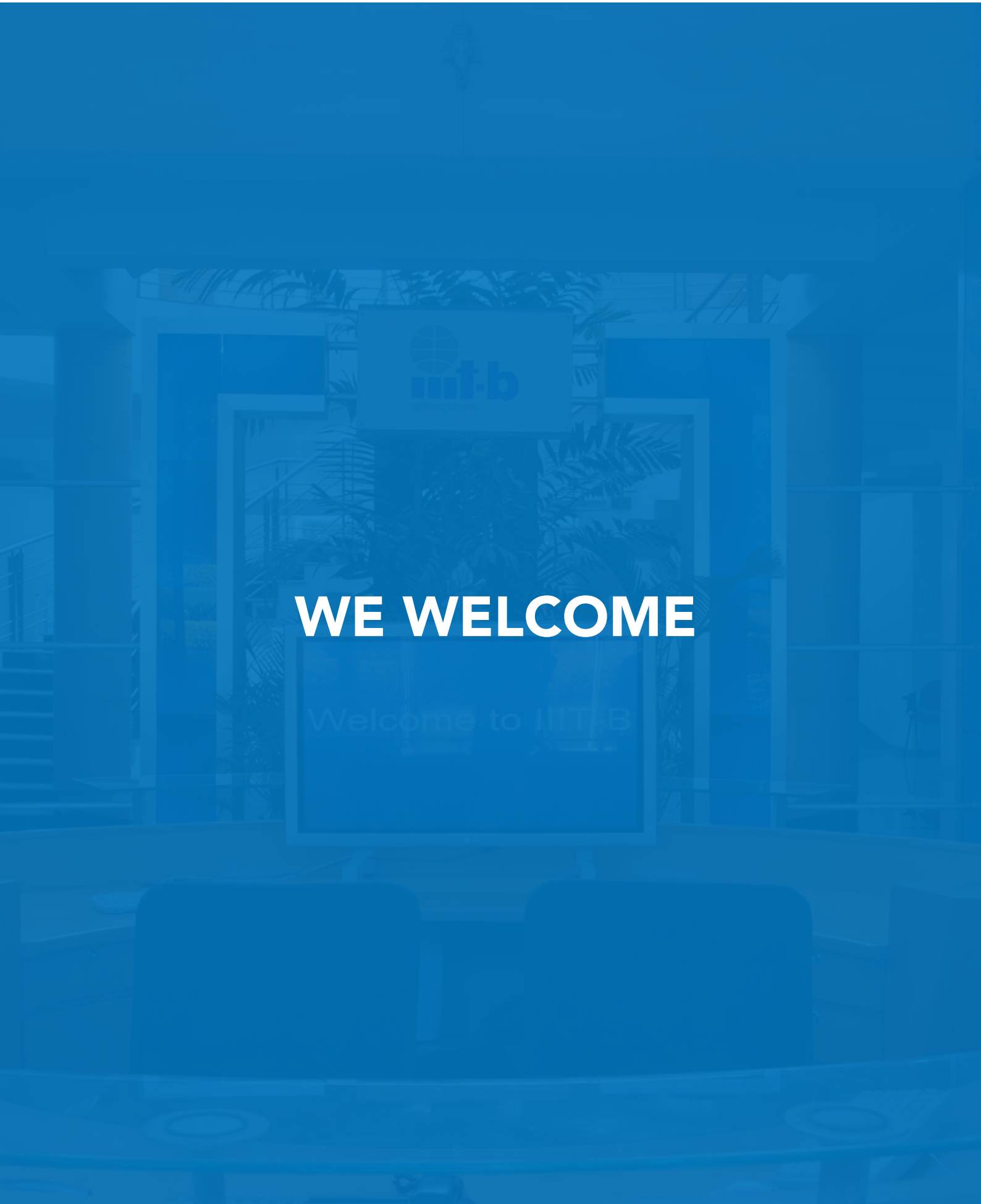


Placement



Recruiters


BFSI
Hardware
IT Product
IT Services
NGO
R&D
Samsung 4%
Syncron
MobiSy
Coviam
IBM 15% (25)
Walmart 4%
SAP Labs
Tesco
Mobileiron 3%
Siemens
Morgan Stanley
Media Tek 3%
Hilti
Borqs 3%
Scienaptic 4%
TCS Lab
Target
UseReady 5%
CISCO 12% (21)
Amazon
Directi
Accolite



WE WELCOME

Pradeesha Ashok, Assistant Professor

Email: pradeesha@iiitb.ac.in

Previous to joining IIIT Bangalore, she was a Postdoctoral Fellow at Institute of Mathematical Sciences, Chennai. Dr. Pradeesha Ashok did her Ph.D from Indian Institute of Science, Bangalore.

Manish Gupta, Infosys Foundation Chair Professor

Email: manish.gupta@iiitb.ac.in

Prof. Manish Gupta is the Infosys Foundation Chair Professor at IIIT Bangalore and co-founder and CEO of VideoKen, an educational technology startup. Prior to joining IIIT Bangalore, he has served as Vice President and Director of Xerox Research Center India (XRCI).

V Ramasubramanian, Professor

Email: v.ramasubramanian@iiitb.ac.in

Prior to the present position, he was Professor at PES Institute of Technology, South Campus, Bangalore, 2013-2017. He has been engaged in research in speech processing and related areas for nearly 3 decades.

Thangaraju B, Professor

Email: b.thangaraju@iiitb.ac.in

Prior to joining IIIT Bangalore, he worked at Wipro Technologies, Bangalore. His research interests include Operating System, Embedded and Real Time Systems, Linux Kernel, DevOps, Container Technology and IoT.

Thamarai Selvan

Email ID: thamarai.selvan@iiitb.org

He Joined IIIT Bangalore in September 2016 as technical assistant

Shiva Prakash

Email ID: shivaprakash@iiitb.ac.in

Prior to joining to IIITB, he worked with Volvo India Pvt Ltd, he has received his B.E (mech) degree from Sahyadri College of Engineering Mangalore. At IIITB he is handling activities related to campus and facility management.

Vishnu Raj

Email ID: vishnu.raj@iiitb.org

He Joined IIIT Bangalore in September 2016 as technical assistant

Mythri

Email: frontdesk@iiitb.ac.in

She Joined IIIT Bangalore in August 2016 as Receptionist. She received her degree in B.Com from Lorven college of science and management, Bangalore. She is handling the activities related to Front desk and admistration.

Rasmita Sahu, Admin and Placement Coordinator

Email: rasmita@iiitb.ac.in

Prior to joining IIITB, she worked with Coddle Technologies Private Ltd., IIIT-Bhubaneswar, XL Dynamics India Private Limited, and SevenSeers Consulting. She has received her MBA degree from National Institute of Technology, Rourkela, and B.E. degree from Biju Patnaik University of Technology, Rourkela. At IIIT-B she is working as Admin and Placement Coordinator, she is handling administration and placement activities related to Postgraduate diploma in Data Analytics.

Kuhu Gupta

Email ID: kuhu.gupta@iiitb.ac.in

She Joined IIIT Bangalore as research associate.

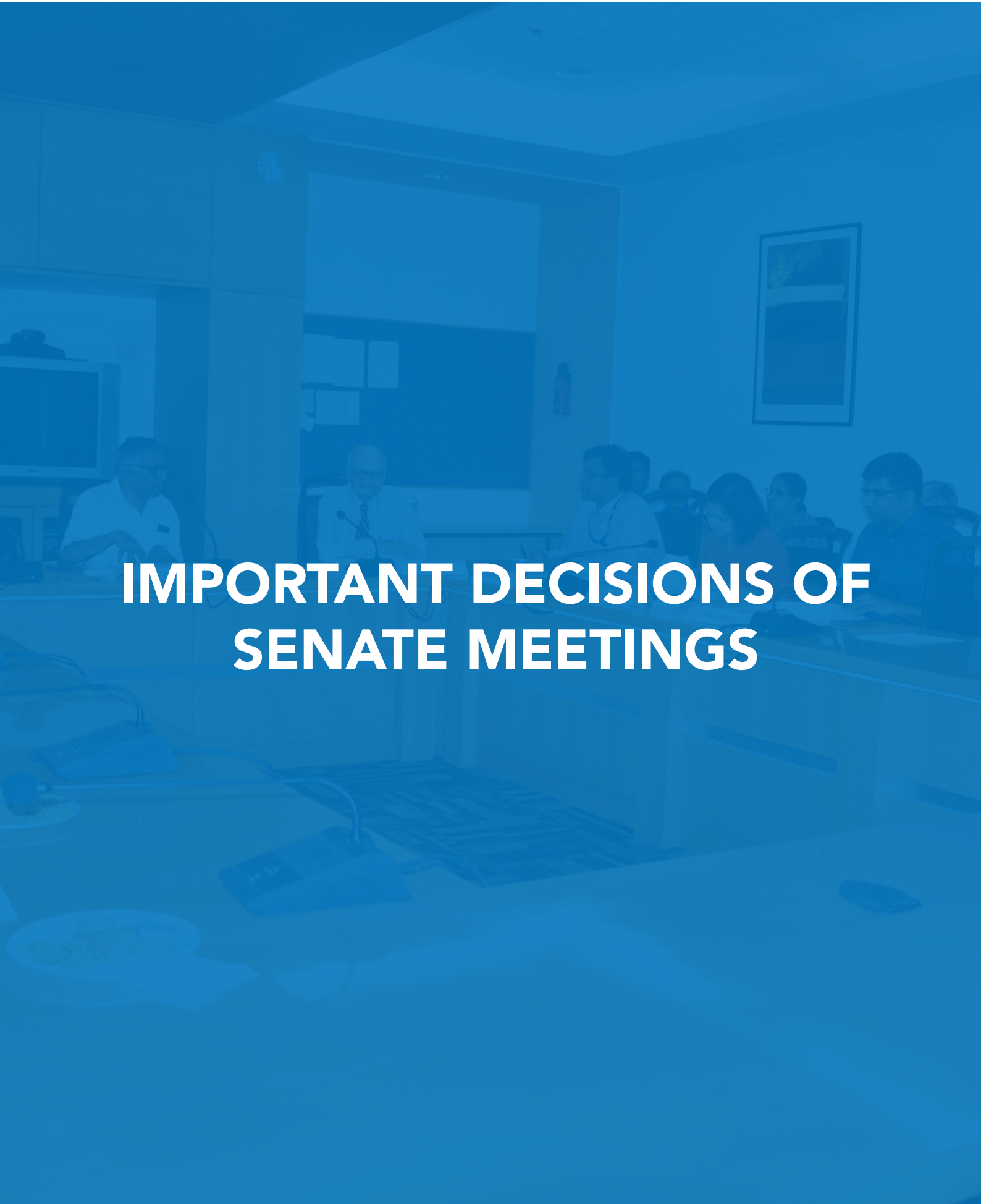
IMPORTANT DECISIONS OF GOVERNING BODY MEETINGS

DATE AND MEETING	DECISION
64th Meeting held on July 03, 2016	Awarded PhD degree to 2 students in the 16th Convocation held on July 3, 2016.
	Awarded MS by Research degree to the 11 students in the 16th Convocation held on July 3, 2016
	Awarded M Tech degree to 154 students (1 from 2013 batch & 153 from 2014 batch) students in the 16th Convocation held on July 3, 2016
	Conferred the Scholarships and Medals to the 8 students in the 16th Convocation held on July 3,2016
65th Meeting held on September 01, 2016	Prof. Anna Lee SAXENIAN, Dean and Professor in the School of Information and professor in the Department of City and Regional Planning at the University of California, Berkeley was nominated as member of the Governing Body
	Consideration of the Annual Accounts for the year 2015-16.
	Appointment of Statutory Auditors M/s Rao Associates for the F.Y. 2016-17 & fixing their remuneration of Rs Rs. 2,00,000 (Rupees Two lakhs only) plus taxes and out of pocket expenses.
	Appointment of Internal Auditor M/s Rao and Swamy has been appointed as the Internal Auditor for the financial year 2016-17 with remuneration of Rs 75,000 per quarter plus taxes and out of pocket expenses.

66th Meeting held on November 09, 2016	Approval of Additional Capital Budget of Rs 50 Lakhs towards procurement of Gym Equipment, Additional Dining Tables and Chairs, and RO purifier for Bhaskara building.
	Appointment of Selection Committee for selection of Dean Academics and R&D, Dean (Faculty) and Associated Dean

67th Meeting held on February 08, 2017	(a) Mr TK Srirang, Senior General Manager and Head-Human Resources, ICICI Bank was inducted as a Patron Member. (b) Naresh Shah, Head of HPE India, of Systems Testing and Development Operations, Bangalore was inducted as a Patron Member. (c) Prof S Prabhu was nominated as a member of the Sub Committee of the Governing Body (Audit and Finance).
	Following Professors were appointed as Deans:- (a) Prof Chandrashekar Ramanathan – Dean (Academics) (b) Prof Srinath Srinivsa – Dean (R&D) (c) Prof Jyotsna Bapat – Dean (Faculty)
	Budget for the Academic year 2017-18 was approved.
	Annual Pay Revision for Faculty and Staff with effect from April 01, 2017 was approved as follows:- (i) A flat rate of 3% is on the basic (ii) The special allowance for the year 2017-18 to be increased by 3.5% of the gross salary (Basic plus HRA plus conveyance) drawn as on March 17, over and above the existing special allowance ,in line with CPI inflation. In case of faculty/ staff who are paid a consolidated fee (consulting faculty, consultants in projects etc) the fee paid will be increased by 6.5 %

68th Meeting held on July 02, 2017	Awarded PHD degrees to 04 Students in the 17th Convocation.
	Awarded Master of Science by research to 08 students in the 17th Convocation
	Awarded M Tech degrees to 149 Students in the 17th Convocation
	Awarded M Tech degrees to 51 sponsored students in the 17th Convocation.
	Awarded M Sc (Digital Society) degree to 09 students in the 17th Convocation.
	Awarded B Tech and M Tech degrees to 48 IMTech Students in the 17th Convocation
	Awarded 10 Scholarships and Medals to meritorious students in the 17th Convocation.



IMPORTANT DECISIONS OF SENATE MEETINGS

DATE AND MEETING	DECISION
53rd Meeting held on 5th October, 2016	Reconstitution of the New Senate Recommended to the Governing Body for award of PhD degree to Ms Subha P E, Roll no. PH2010905 Approved Dean's list
54th Meeting held on December 14, 2016	Approved the withdrawal of Sainath Shanbhag PH2015011
55th Meeting held on 15th February, 2017	Recommended to the Governing Body for award of PhD degree to Mr Sumant Kulkarni, PH2013009 and Ms R Rajika, PH2012006 Recommended to the Governing Body for award of Master of Science by Research degree to Ms Aakanksha Bapna, MS2013001 Approved to change the name of the specialization to "Signal Processing and Pattern Recognition" Approved the withdrawal of Vikrant Mhaske Roll no. MS2014008 Approved the change in M.Sc. (Digital Society) admission process
56th Meeting held on 31st May, 2017	Recommended to the Governing Body for award of Master of Science by Research degree to Ms. Khusbu Bubna Roll No. MS2013009, Mr. Irfan Baig Roll No. MS2014001 and Ms. Banda Gowthami Prasanna Roll No. MS2013006 Approved the Wordings on the Degree certificates for new programmes - iMTech and M.Sc.(DT)
57th Meeting held on 21st June, 2017	Recommended to the Governing Body award of PhD degree to 4 Student(s) Recommended to the Governing Body Award of Master of Science by Research Degree to 8 Student(s) Recommended to the Governing Body Award of MTech degree to 159 Students Recommended to the Governing Body Award of MSc DT degree to 9 Students Recommended to the Governing Body Award of MTech degree to 51 Students Sponsored MTech students Recommended to the Governing Body Award of Master of Technology and Bachelor of Technology degree to 48 Students Integrated MTech students. Recommended to the Governing Body for scholarships / medals to 10 students
58th Meeting held on 26th July, 2017	Approved Branch Change Process for Integrated MTech Noted the new students who joined for M Tech 2017-19 batch Noted the new students who joined MSc (DT) 2017-19 batch

IIIT BANGALORE SENATE IN PROGRESS

FINANCES

International Institute of Information Technology - Bangalore
26/C, Electronics City, Hosur Road, Bangalore - 560 100

Income and Expenditure Account for the year ended 31st March 2017

31-Mar-16	Income	Sch.No.	31-Mar-17
14,07,44,363	Tuition Fees	M	31,75,33,929
2,12,65,097	Hostel Fees		3,83,11,651
2,26,32,851	Academic Activities	N	3,32,28,213
1,36,91,525	Interest on Bank Deposits		1,45,44,202
66,06,209	Other Receipts	O	85,86,839
1,56,05,867	MIIT Project Income	U3	5,24,17,806
22,05,45,913	TOTAL (a)		46,46,22,640

31-Mar-16	Expenditure	Sch.No.	31-Mar-17
11,91,15,863	Faculty & Staff Expenses	P	12,13,08,936
36,80,752	Student Expenses	Q	39,29,371
2,35,85,013	Academic Expenses	R	14,66,58,989
2,54,58,255	Infrastructure Expenses	S	3,32,38,142
93,31,166	Administrative & General Expenses	T	1,02,00,954
2,03,02,531	MIIT Project Expense	U4	5,89,36,742
20,14,73,580	TOTAL (b)		37,42,73,133
1,90,72,332	Excess of Income before Interest, Depreciation and Exceptional item (a-b)		9,03,49,406
1,48,19,175	Interest on Term Loan		85,69,000
42,53,157	Excess of Income before Depreciation and Exceptional item		8,17,80,407
(19,13,820)	Exceptional item		-
(5,35,66,604)	Depreciation On Assets	E	(2,25,80,397)
(5,12,27,267)	Surplus/ (Deficit) for the year transferred to Revenue Account		5,92,00,010
	Significant Accounting Policies & Notes forming part of Accounts	V	

As per our report of even date

For International Institute of Information Technology - Bangalore

S.Sadagopan
Director

For Rao Associates
Chartered Accountants
Firm Reg. No. 003080S

Sandeep S Shekar
Partner
Membership No. 232631

RAO ASSOCIATES * BANGALORE FIRM Reg. No. 003080S * CHARTERED ACCOUNTANTS

Place: Bangalore
Date: 06-09-2017

IIIT BANGALORE IN MEDIA

UpGrad & IIIT-B Partner to Bring Onboard SocialCops for Their Data Analytics Program

PR Newswire

MUMBAI, September 17, 2016

'With Ola Auto there is a shift in the way auto-drivers and passenger interact'

Kavitha Narayanan

VISUALLY IMPAIRED GIRL TOPS PG COURSE AT IIITB; 269 STUDENTS SET TO GRADUATE TOMORROW | P4

Tool to report harassment during travel

Times News Network

Bengaluru: An informal reporting tool on sexual harassment, developed by a group of students, could help transport corporations make commuting safer for women by collecting data on harassment they face while using public transport.

Funded by Cisco, the tool is the result of a collaborative project between MediaLAB Amsterdam, Fields of View, a city-based NGO, and International Institute of Information Technology, Bangalore (IIITB).

Dec 19 2016 : The Times of India (Bangalore)

Winter school gives tips on smart cities, social media

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Not Out: This Summer Camp Keeps Science Spirit Ali

City to have centre for Artificial Intelligence, robotics research

By Express News Service | Published: 16th March 2017 06:13 AM | Last Updated: 16th March 2017 06:13 AM

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According to Chief Minister Siddaramaiah, Karnataka Knowledge Commission had identified the two topics "as technology of the future and for adoption of data analytics in decision making."

Therefore, the state has proposed to establish an Artificial Intelligence and Robotics Centre at the Indian Institute of Information Technology in

269 students get degrees

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Experts draw up plan to decongest NIMHANS

It is re-modelling the OPD to not only reduce patients' waiting time but to also allow focus on effective queue management

WIRE

A Visit that Sets the Stage for India, Myanmar to Take Ties to the Next Level

Screwvala's co to offer courses in tech

TNN | Jun 24, 2017, 00:26 IST

Hyderabad: At a time when layoffs are giving sleepless nights to IT professionals,

UpGrad & IIIT-B Partner to Bring Onboard SocialCops for Their Data Analytics Program

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HEY AUTO INDUSTRY

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Kavitha Narayanan

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Winter school gives tips on smart cities, social media

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It was open to students and professionals of all backgrounds and included group activities, classes and workshops on topics like planning

FOR KNOWLEDGE Camp based in Basavanagudi prods students towards a science career and promotes scientific tem

Not Out: This Summer Camp Keeps Science Spirit Ali

SCIENCE, NOT ITS APPS

Lectures and experi-

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THE WIRE

ABOUT POLITICS ECONOMY SCIENCE EXTERNAL AFFAIRS SOCIETY VIDEO

WORLD

A Visit that Sets the Stage for India, Myanmar to Take Ties to the Next Level

BY GAUTAM MUKHOPADHAYA ON 22/10/2016 -

LATEST ON THE WIRE

Experts draw up plan to decongest NIMHANS

It is re-modelling the OPD to not only reduce patients' waiting time but to also allow focus on effective queue management

Vandana.Kamath
@timesgroup.com
TWEETS @vandanakMIRROR

The National Institute of Mental Health and Neurosciences' (Nimhans') three-decade-old crippling problem of overcrowding and chaos at its out-patient department (OPD) is about to end thanks to expert advice from the Indian Institute of Science (IISc) and the International Institute of Information Technology

at re-numbering the rooms. Right now, in a few cases, numbers of a few rooms are repetitive, which confuses patients. Re-numbering of these rooms would avoid the confusion," Dr Rao said.

Dr Rao said the whole planning process started around March-end when Prof KB Akhilesh, dean of management studies, IISc, and Prof S Sadagopan, director (president), IIITB, were invited to analyse the project. Subsequently, a member from IIITB observed the OPD proceedings over a five-day period and identified the bottlenecks and submitted a report

Screwvala's co to offer courses in tech

TNN | Jun 24, 2017, 00:26 IST

A- A+

Hyderabad: At a time when layoffs are giving sleepless nights to IT professionals, Mumb

Ronnie

Karnataka Budget: CM Siddaramaiah allocates Rs 299 crore for IT, BT and SandT department

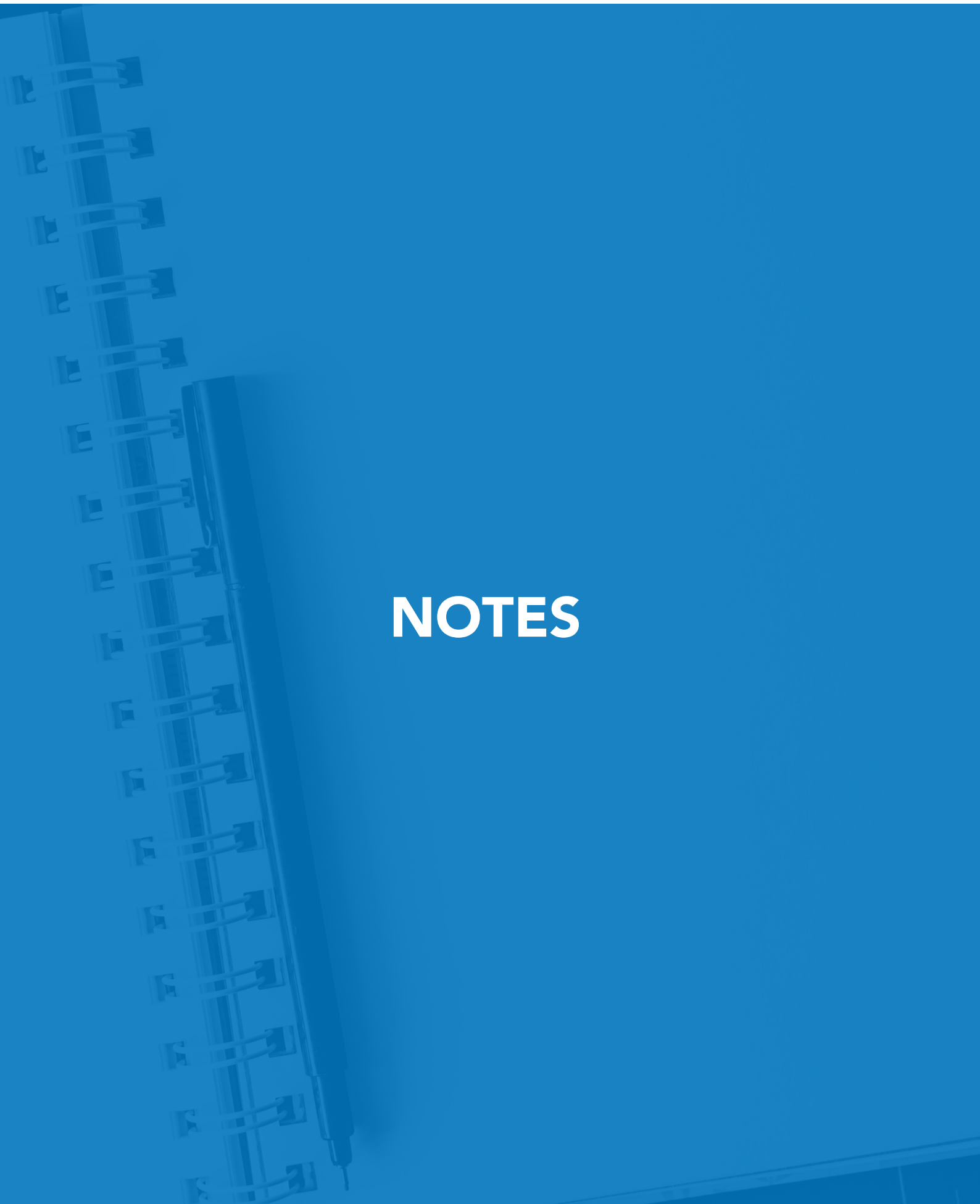
Karnataka government proposed to set up a Centre of Excellence in Data Science and Artificial Intelligence and Cyber Security Centre here, Chief Minister Siddaramaiah said in the state 2017-18 budget today.

DNA DAILY NEWS & ANALYSIS

India World Business Technology Sports Cricket Entertai

with a higher incidence among women, the elderly, and those in urban metros.

"The survey indicates that more than 60 per cent do not seek professional help for various mental health problems including depression. There is a need for multiple measures to address this gap," says Dr Seema Mehrotra,



NOTES

iiitb

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For more information, you can reach out to us at outreach@iiitb.ac.in