



INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY BANGALORE



ANNUAL REPORT

2019-20

www.iiitb.ac.in



Imagine...

A world where there is no Internet. No email. No computers. No Wi-Fi. No smartphones. No Social Media platforms. No messaging platforms.

Hard to imagine, right?

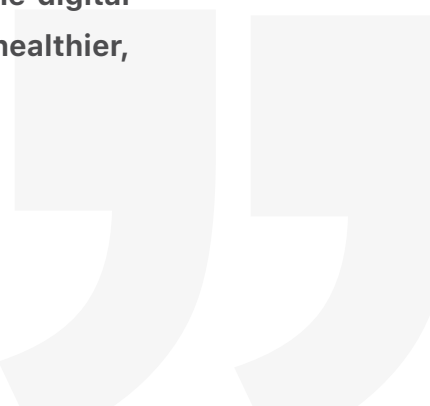
Technology, and specifically Information Technology, has changed the way we live and work. It has made our lives more comfortable, brought people together, and improved the quality of living.

When we started IIITB 21 years back, we had a clear vision and mission – to contribute significantly to the world of Information Technology, for transforming the lives of individuals and society.

We are happy and humbled to have contributed in shaping the minds of over 3000 students and contributing to the betterment of society, in the last two decades. Indeed, we have come a long way.

But we have just begun the next exciting phase of our journey.

The theme of this year's Annual Report is a tribute to the digital world we live in, and how we at IIITB are doing our bit for a healthier, happier, safer and better world.



Index



| | | | |
|---------------------------------------|----|--------------------------------|----|
| 1. Director's Report | 05 | 11. Labs | 54 |
| 2. Governing Body | 08 | 12. People | 58 |
| Governing Body Members ... | 09 | Faculty | 59 |
| Board Meetings | 11 | Key Officials | 64 |
| 3. Senate | 14 | IAB | 67 |
| Members | 15 | 13. Publications | 68 |
| Meetings..... | 16 | Conference Publications .. | 69 |
| 4. 20 th Convocation | 18 | Journal Articles | 78 |
| 5. Awards | 22 | Books & Patents | 80 |
| Faculty | 23 | 14. Appointments & Adieu | 82 |
| Staff | 25 | 15. Student Activities | 84 |
| 6. Distinguished Visitors | 26 | Activities & Awards | 85 |
| 7. Dean's List | 30 | Admission | 89 |
| 8. Events & Happenings | 34 | Placements | 90 |
| Alumni Activities | 35 | SAC | 93 |
| Events | 38 | 16. We miss you | 94 |
| Faculty Activities | 46 | 17. IITB in the news | 96 |
| Guest Talks | 47 | | |
| 9. Financials | 48 | | |
| 10. Infrastructure | 52 | | |



1. Director's Report

21st Annual Report



September 18, 1998

Registration of IITB Society





Prof S Sadagopan

Director, IIIT Bangalore

Excerpts from Director's address at the 20th Convocation of IIITB, held on 5th July, 2020

It is a moment of joy when 282 of our students (7 with a PhD degree, 13 with Master of Science by Research Degree, 159 with 2-year M Tech Degree, 11 with M.Sc. Degree, 63 students with dual degrees, and 29 students with Sponsored 2-Year M Tech degree) graduate.

The year 2019 - 2020 is very special for this Planet; Covid-19 introduced so many challenges. Every organization had to innovate its own way of facing this challenge. IIITB did this by way of moving 100% to online teaching of classes for the last six weeks of classes and moving to E-Convocation today.

It's customary to present very select highlights of the Institute on this occasion. Please permit me to do so. I will be very brief.

First on students' front,

- Please join me in congratulating our **MSc Student Nibin Mathew** for winning the first Prize in **National Blind Tennis Championship**; until he won this award many of us did not even know of such a game – blind tennis where the ball is smart! He has been selected for the International event scheduled to take place in Italy.
- Our Ph.D. student **Oindrila Matilal** won the Best Paper Award at European Conference on Computer Supported Work.
- Please join me in congratulating our **Ph.D. student Rajavelsamy**, for his election to 3GPP—the **highest standards body in the world for LTE and 5G** - as **Vice Chairman**. Interestingly, he is our M Tech Alum and works for Samsung.

On alumni front,

- Please join me in congratulating **Khadim Batti**, an alumnus from the very first batch of **M-Tech** students; his start-up **Whatfix** received Series C funding of **\$ 32 Million** recently.

On faculty front,

- Please join me in congratulating **Prof R Chandrashekar** for being adjudged the **"Top 10 Data Science Academician"** for a second time in a row by **Analytics India Magazine**.
- Professors **V Sridhar & Shrishra Rao** won **Facebook Award for Ethics in AI** – one of the six teams from India.
- Please join me in congratulating Prof **Manish Gupta** who was selected by Google to head the **Google Research Lab India** in September 2019.

Institutionally,

We are getting more and more international doing justice to our name!

- **MOSIP** (Modular Open Source Identity Program) project that IIITB is hosting is getting lots of traction. **Morocco** was the first country to adopt MOSIP in 2018. **Indonesia and Ethiopia** signed MoU in 2019. Sri Lanka is likely to sign up in 2020. Special mention must be made of the fact that the Chairman of BGMF (Bill & Melinda Gates Foundation) **Mr. Bill Gates** decided to personally review this project funded by BGMF and spent nearly an hour with the project team led by **Prof S Rajagopalan** in Seattle on October 30, 2019.

- IIITB joined the prestigious **Web Science Trust Labs** network of select 20 global Institutes including MIT, Imperial College, NUS, KAIST and Tsinghua
- The Institute continues to mentor **MIIT** (Myanmar Institute of Information Technology) with a full contingent of IIITB selected faculty members from India; the first batch of the Undergraduate Students after completing their five years of BE (Hons) are expected to graduate in October 2020.

IIITB won the **"Best Exhibitor Award"** in Bangalore Tech Summit 2019.

- The largest tech event in India, in November 2019.
- The first time we ever put up a stall!

All through the 20 years, we have been successful in placing all but a handful of students on the day of the Convocation; this is significant as our academic year gets over by June 30 and all our Convocations happen on the first or second Sunday of July. I am happy to share that this year is no different!

Finally, "Institution building is an act of faith". But for the trust-based relationship between the Governing Body and the Executive, IIITB 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.

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

2. | Governing Body



February 4, 2001
1st Convocation Day



Governing Body Members



Mr. S Gopalakrishnan

Chairman Governing Body
Co-Founder
Infosys



Prof. S Sadagopan

Director
IIIT Bangalore



Mr. B V Naidu

Chairman
Sagitaur Ventures Pvt Ltd



Mr. I S N Prasad, IAS

Additional Chief Secretary
Government of Karnataka



Mr. K.S. Viswanathan

Vice President
(Industry Initiatives)
NASSCOM



Prof. Pankaj Chandra

Chairman
Board of Management,
Ahmedabad University



**Mr. R Chandrashekhar,
IAS (Retd.)**

Former President
NASSCOM



Mr. Uday Hegde

Co-founder & CEO
USEReady



Mr. Naresh Shah

Former President, India R&D
Hewlett Packard Enterprise

GOVERNING BODY MEMBERS



Ms. Nivruti Rai

General Manager
Intel India



Prof. AnnaLee Saxenian

Dean of the School of
Information, University of
California, Berkeley



Mr. TK Srirang

Senior General Manager &
Head Human Resource,
ICICI Bank



Mr. Gaurav Gupta, IAS

Additional Chief Secretary
Government of Karnataka



Mr. Gururaj Deshpande

Chief Operating Officer
EdgeVerve Systems
(an Infosys company)



Dr. Ajay Kumar, IAS

Defence secretary
Government of India



Cmde SR Sridhar (Retd.)

Registrar, IIITB
Secretary to the Board



Board Meetings

Decisions taken during the year



September 4, 2019

77th Meeting of the Governing body

- Financial Statements for the year 2018-19
- Observations of the Internal Auditor for the half year ended 31st March, 2019
- Appointment of Internal Auditors
- Appointment of Statutory Auditors for the year 2019-20 and fixing their remuneration
- Additional cost of Ramanujan Building Phase 2 construction
- Writing-off of old outstanding balances
- Proposed annual pay scale/grade for contractual hiring of Research Scholars & Project Staff
- Faculty Selection and Promotion Committee from 2018 to 2021
- The Balance Sheet as on March 31, 2019; Income and Expenditure Accounts, the cash flow statement and Auditor's report for the year ending March 31, 2019 were adopted as recommended by the Governing Body in its 77th Meeting held on September 04, 2019.
- Appointment of Auditors and fixing their remuneration
- Nomination / Re-nomination to the Governing Body
- The General Body of IIITB Society was briefed by the Secretary about the status of members of the Governing Body. The General Body unanimously approved the re-nomination of the following members for an additional term of 3 years.

September 25, 2019



21st Annual General body meeting

- Minutes of the 20th AGM as circulated was approved by the AGM.
- Approved and adopted the Audited Balance Sheet as on 31st March 2019 and the Income and Expenditure Account and the Cash Flow statement for the year ended on that date.

Resolution No. AGM/21.2





November 13, 2019
78th Governing Body Meeting

- Condolence to Prof. B S Sonde
- Action taken Report - Action taken on items taken up in previous board Meeting
- Approved Finance Manual of IIITB
- Approved Revision of Honorarium policy for Faculty, students and external experts.
- Financial performance as on September 30, 2019
- Status of Phase II Ramanujan building
- Registrar briefed the board about the on-going construction of the Phase II of Ramanujanm which is in progress as per schedule
- Updates on MOSIP
- Appointment of Deans - the present incumbents whose terms are coming to an end on February 08, 2020, continued for a further period of three years as recommended by the sub-committee comprising Prof Pankaj Chandra, Mr. Naresh Shah and Mr. Gautam Hegde. After due deliberation, whilst approving the proposal, Chairman suggested to examine if the portfolios could be rotated amongst the three Deans. The Governing Body approved the continuation of the three Deans for a further period of three years with effect from February 09, 2020.
- Recognition for personnel who have completed 20 years of service.
- The following Faculty members and Staff members who completed 20 years of service were gifted a silver salver by Chairman and the Governing Body Members:-
 - (a) Prof S Sadagopan
 - (b) Prof KV Dinesha
 - (c) Mr Durai Murugan
 - (d) Ms Ramadevi S
 - (e) Mr Somashekaraiah K

January 22, 2020



Sub-Committee meeting of the Governing Body (Finance and Audit)

- Annual Budget 2020-21
- Approved increase in Tuition Fees and Hostel Fees
- Approved Annual Pay increase with effect from April 01, 2020
- Summarized observations of Internal Audit for the Half year ended 30th September 2019
- Approved budget for Income and Expenditure for revised estimate 2019-20 and budget estimated 2020-21
- Projected Balance Sheet as on March 31, 2020 and March 31, 2021
- Projected receipts and payment account for the year 2019-20 and 2020-21
- Corpus and capital expenditure
-



February 05, 2020
79th Governing Body Meeting

- Election / nomination of new member to the Governing Body.
- It was proposed to nominate Mr Uday Hegde, as a new member under Student Alumni category in place of Dr Gautham Hegde who is stepping down. Mr Udaya Hegde belongs to the first batch (1999) of students and is presently the founder of USEReady.
- The Governing Body approved the nomination and also thanked Dr Gautham Hegde for his contributions to the IIITB Governing Body and IIITB as a whole
- The Governing Body approved the Annual Budget 20-21 and also took note of the budget with optimistic approach.
- The Board approved proposal for revision of fees and recommended by the Sub-Committee of the Governing Body (Audit and Finance) was placed before the Governing IIITB - Minutes of the 79th Governing Body Meeting held on February 05, 2020

- The Governing Body approved the annual pay increment for faculty and staff with effect from April 01, 2020 for the employees who were on payroll as on March 31, 2019 for the F.Y. 2020-21 as follows:-
 1. A flat rate of 3% increment to be considered on the Basic.
 2. A 6% increment on gross salary (Basic plus HRA plus conveyance plus Special Allowance) drawn as on March 2020, in line with CPI inflation to be added to the existing Special Allowance.
 3. In case of faculty/ staff who are paid a consolidated pay the pay will be increased by 8%.
- Summarized observations of Internal Audit for the half year ended 30th September 2019.
- Chairman suggested that robust systems should be in place to ensure the timely recovery of the dues
- Items for Reporting
 1. Prof Viswanath Gopalakrishnan was introduced to the Board Members
 2. Income Tax assessment for Assessment Year 2017-18 is completed during the year 2019-20 and Rs 120.07 lakhs refund received.
 3. GST Audit completed - Financial Year 2017-18. GST arrears of Rs. 83,468 paid along with interest of Rs. 32,015 towards sale of scrap, tender fees etc.



3. | Senate



March 9, 2005

1st Senate Meeting held



Senate Members

Chairman : Prof. S Sadagopan

Members, Educationists of repute

1 Dr. Krithi Ramamritham

2 Dr. Roland Haas

3 Prof. S S Prabhu

4 Mr. S Nagarajan

5 Dr. Nachiket Mor

Teaching Members

1 Prof. S Rajagopalan

2 Prof. K V Dinesha

3 Prof. Jyotsna Bapat

4 Prof. Debabrata Das

5 Prof. Jaya Sreevalsan Nair

6 Prof. V N Muralidhara

7 Prof. Balaji Parthasarathy

8 Prof. G N Srinivasa Prasanna

9 Prof. Chandrashekar Ramanathan

10 Prof. Shrisha Rao

11 Prof. Srinath Srinivasa

12 Prof. Meenakshi D' Souza

13 Prof. Neelam Sinha

14 Prof. Manisha Kulkarni

15 Prof. Balakrishnan Ashok

16 Prof. Subir Kumar Roy

17 Prof. G Srinivasa Raghavan

18 Prof. Subhajit Sen

19 Prof. Tricha Anjali

20 Prof. Ashish Choudhury

21 Prof. Chetan D Parikh

22 Prof. Bidisha Chaudhuri

23 Prof. Amit Prakash

24 Prof. T K Srikanth

25 Prof. V Sridhar

26 Dr. V Ramasubramanian

27 Dr. Manish Gupta

28 Dr. B Thangaraju

29 Prof. Madhav Rao

30 Prof Dinesh Babu Jayagopi

31 Prof. Sujit Kumar Chakrabarti

Non Teaching Members

1 Commodore (Retd) S R Sridhar -
Secretary to Senate

2 Ms. Cynthia D' Mello

3 Ms. Ramadevi S

4 Mr. Durai Murugan M K

5 Mr. D V Jagadish

Highlights of Senate meetings



October 16, 2019

70th Senate meeting

- Prof R Chandrashekar, Dean Academics chaired the meeting and welcomed all the members for the 70th meeting of the Senate
- The Senate recommended to the Governing Body the following items:
 1. Conferring the MS degree to Student Name Nitin Bhatia (Roll No. MS2015008)
 2. Approved of matters related to Research Scholars
 3. The Senate recommended completion of Academic Milestone(s) of the three PhD students
 4. Senate noted the details of the student(s) withdrawn from MTech Program.
 5. The Senate noted the details of student(s) withdrawn from the PhD programs.
 6. The Senate noted the update from Senate Sub-Committee for PGDDS, PGDSD and PGDMLAI



December 04, 2019

71st Senate meeting

- The Senate recommended to the Governing Body the following items:
 1. Consideration and recommendation of the Student for Award of Master of Science by Research degree
 2. Consideration and recommendation of the Student for Award of PhD degree
 3. Conversion of registration from Master of Science by Research to PhD program
 4. Recommendations for re-structuring comprehensive examination for PhD Research Scholars at IIIT Bangalore
 5. Recommendations of the "Plagiarism Check Implementation Committee"
 6. Matters related to Research Scholars



February 19, 2020

72nd Senate meeting

- The Senate recommended to the Governing Body the following items:
 1. Consideration and recommendation of students for award of PhD degree
 2. Recommendations for re-structuring comprehensive examination for PhD Research Scholars at IIIT-Bangalore
 3. Recommendations of the "Plagiarism Check Implementation Committee" IIIT-Bangalore integrated M T e c h Review Committee update
 4. MSc Digital Society Review Committee update
 5. Admissions - Academic year 2012-21 starting August 2020
 6. Matters related to Research Scholars
 7. The admissions announcement for M.Sc. (Digital Society)
 8. The budgetary requirement for Scholarships and financial support is as follows:
 9. A scholarship of Rs. 12,400 for duration of two years of the programme is being proposed. Assuming 30 students, the budgetary estimate is about Rs. 44.32 Lakhs per year. This is about 55% of the tuition fees they would be paying.
- Senate sub-committee report for PGDDS, PGDMLAI, PGDSD
- Senate sub-committee report for PGDBD
- 20 scholarships of Rs. 12,400 pm with no additional institute contribution
- 30 scholarships of Rs. 12,400 pm with additional institute contribution of about Rs. 14 Lakhs per year
- Approved specializations, Theory and Systems for Computing and Data, Artificial Intelligence and Machine Learning, Networking and Communication, VLSI Systems and Digital Society



March 24, 2020

73A Emergency Senate meeting

The Chairman said that in the light of the disruption in the academic activities as a result of the lock-down announced by the Government (both Central and State) due to the Corona virus pandemic, there is a need to plan and chalk out the balance of semester and also announce to the students a revised academic calendar for the semester.

Dean (Academics) suggested the following:-
IIITB officially suspended on-campus classes from March 16, 2020.

The proposed changes to the academic calendar of the on-going Term II (2019-20) as appended below:

- Faculty members may choose any appropriate online instruction mechanism for conducting classes.
- Live Virtual Classroom: Live online interaction between faculty members.
- Self-recorded video: Video lectures self-recorded by faculty member
- Impartus Lecture Capture: Existing Impartus Lecture Capture videos from previous semesters recorded in IIITB class rooms
- MOOC Lectures: Existing recorded lectures from MOOCs such as NPTEL, Coursera

Activities

March 15 - May 31 : Vacation period

May 27 - May 31 : Students permitted to return to campus; this period can be viewed as a buffer for any testing or other re-entry protocols that need to be implemented.

June 1 - July 18 : Classes to be conducted for 7 weeks

July 20 - July 25 : End term examinations

July 27 - July 31 : Short term break

Spandan and other postponed student recreational activities can be conducted subject to the situation and advisories prevailing at that time

August 03 : Class for next term Term I (2020-21) begins

Evaluation could be examined at a later date for all summer interns outside the organizations which involves travel, contact with outsiders etc. Colleges/institutes should give challenging problems as internships which can be done by their students from their respective homes.



April 22, 2020

73B Senate meeting

- Consideration and recommendation of the student(s) for award of Master of Science by Research Degree
- Integrated M.Tech curriculum sub-committee update
- Consideration and approval of course proposal for Computer Architecture
- Approval of M.Sc. Digital Society curriculum changes



July 01, 2020

74th Senate meeting

- Consideration and recommendation of the student(s) for award of PhD degree, Master of Science by Research Degree, M.Tech Degree, MSc Digital Society Degree, M.Tech Sponsored Degree and Integrated M.Tech Degrees
- Consideration and recommendation of the students for scholarships/medals



July 22, 2020

75th Senate meeting

- Closure of term II 2019-20 on account of COVID-19
- Commencement of online classes
- Approval of admission and joining formalities in online mode
- The Senate approved the provisional admission of new students to the respective programmes through an online joining process
- Consideration and approval of course proposal titled "Software Architecture and Design Practices"

4. | 20th Convocation



July 5, 2016

Nobel Prize Winner Joseph E
Stiglitz visits IITB



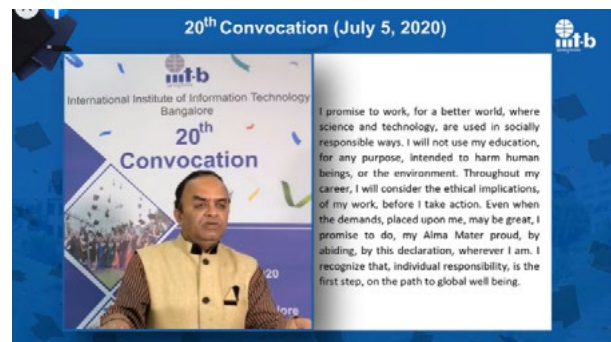
IIITB's E-convocation to confer degrees to the class of 2020

Over 250 students celebrate over a virtual ceremony



The International Institute of Information Technology Bangalore (IIIT-B), held its 20th convocation on 5th July 2020, amidst the current situation brought by the coronavirus pandemic. Professor Jitendra Malik, Arthur J Chick Professor of EECS, University of California at Berkeley was the Chief Guest and Mr. N Krishnakumar, Founder & Former Chairman, Mindtree and Managing Partner, Mela Ventures was the Guest of Honour. The Ceremony was presided over by the Chairman of the IIIT-B Governing Body Mr Kris Gopalakrishnan and Director of IIIT-B Professor S Sadagopan.

IIIT Bangalore hosts its first ever e-convocation to confer degrees to the class of 2020



In all, the Institute awarded degrees to 282 graduating students. This consisted of 7 PhD degrees, 13 Master of Science by Research degrees, 159 M.Tech degrees, 11 M.Sc. degrees, 63 dual degrees, and 29 students with sponsored M.Tech degrees, on the special occasion. Exceptional students in academics and extra-curricular activities were also awarded medals and recognitions.

20TH CONVOCATION



"The annual convocation holds a special place in the hearts of the graduating students and the faculty members of the Institute. This has been a very challenging, yet special year for us as we have had to find innovative ways to complete our curriculum, and ensure the safety of our students, staff and faculty", said **Professor S. Sadagopan, Director, IIIT Bangalore** when addressing the graduates.

"As educational institutions, it is our responsibility to pave the way for the future generations by using technology to re-imagine academics, research and entrepreneurship. The future of higher education is inter-disciplinary studies, and we are delighted to give our students exposure to such opportunities that help them to serve industry and society in an impactful manner," he added.



Mr Kris Gopalakrishnan, the Chairman of the IIIT-B Governing Body reiterated the importance of adjusting and adapting oneself to the changing environment in order to survive and flourish. In his address to the students,

he said *"There are three suggestions that I want you to consider: Create the future - as there are tremendous opportunities in India, have future goals – strive for excellence and act with integrity, and defining success – it's all about making people around you successful"*.



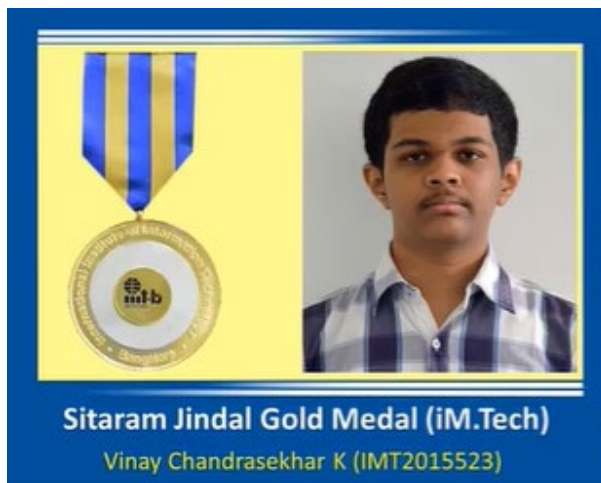
Professor Jitendra Malik Arthur J Chick Professor of EECS, University of California at Berkeley, in his address to the students traced the history of computer science in India right from the days of Indian Independence. He said *"There is a lot of talk about Asia's rise to power in the world of technology in the 21st century. Artificial Intelligence (AI), Machine Learning and Natural Language Processing are all significant areas for India to grow. Big data and big computing techniques such as deep learning have come together to cause major advances in AI in the last 5-10 years. Look at problems in front of you and see how you can use technology to solve them; good things will happen!"*.

Professor Malik also encouraged the students to follow a few basic principles like being a lifelong learner, aiming for excellence not just for oneself, but also supporting and recognizing excellence in others, and being confident.





Striking a note of optimism and hope despite the currently prevailing challenging environment, **Mr N Krishnakumar** Founder & Former Chairman, Mindtree and Managing Partner, Mela Ventures, cited some interesting examples of the triumph of human spirit over adversity. He said *"As you graduate from this institute, you must have big audacious goals. You may not have the ability to know how you will reach there, but those big audacious goals are important to keep you focused and persevering even when you face many bottlenecks and emerge successful. The solid grounding you have received in IITB will help you manage the complexities of the new world much better"*



Hailing from Bagalkot, Karnataka, K Vinay Chandrasekhar, an Integrated M.Tech student graduating this year, has won three awards - **The Student of the Year, Institute Gold Medal and Sitaram Jindal Gold Medal**. He will be pursuing his PhD in Pennsylvania State University, USA.

Tushar Vrind, an MS by Research student in his thesis addressed three novel research problems related to **6G wireless communication**. These include drone cell's positioning, trajectory optimization, operator-sharing, and seamless replacement by aerial cell cloning. An elated Tushar said "I learned multiple concepts from the course works and research discussions in IIT-B. The freedom to think in new areas of research and encouragement helped me to venture in these challenging problems".

Other students with noteworthy accomplishments are Oindrila Matilal, who won the **Best Paper Award** at the European Conference; Rajavelsamy, who was elected as **Vice Chairman of the 3rd Generation Partnership Project (3GPP)**, the highest standards body in the world of LTE and 5G; and, Pragyan Mohapatra, who received the **Intel India Research Fellowship for 2019**.



Prof. Jaya Sreevalsan
Nair



Prof. Chandrashekar
Ramanathan

The faculty of IITB have also had exceptional achievements this year. Associate Professor Jaya Sreevalsan Nair received the **Mathematical Research Impact Centric Support (2019-MATRICS)** grant from Science and Engineering Research Board (SERB), in February 2020 and Professor Chandrashekar Ramanathan, Dean Academics, was adjudged among the **"Top 10 Data Science Academicians"** for the second consecutive time by Analytics India Magazine.

5. Awards



May 7, 2014

Prof. Srinivasan Ramani was inducted
into the "Internet Hall of Fame"



1. The paper titled "Isolation-based Sub-Slices for Throughput Optimization in 5G Radio Access Network" by Sharvari Ravindran, Saptarshi Choudhury, Jyotsna Bapat and Debabrata Das has been awarded as best paper in IEEE CONECCT July 2019.
2. Mr. Vivek Yadav, our adjunct faculty, received Distinguished Alumni Award from Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Madhya Pradesh. The award was presented by Honourable Lalji Tandon, Governor of Madhya Pradesh, during the Foundation day ceremony in Bhopal on 5th September.
3. Google has recently announced a new AI research lab in India and we are proud to say that Dr. Manish Gupta, faculty member, IIT Bangalore, a renowned computer scientist and an ACM fellow, will lead the Indian AI lab. Congratulations!
4. Prof. Chandrashekar Ramanathan was recognized among the "10 Most Prominent Data Science Academicians In India" for the year 2019 by Analytics India Magazine. Full list can be accessed here <https://www.analyticsindiamag.com/10-most-prominent-data-scienceacademicians-in-india-2019/>
5. Profs. Sridhar and Shrisha Rao have received a Research Gift of INR 14,08,750 from Facebook under the "Ethics in AI - India Research Awards" for their project titled "Regulatory Impact Assessment of the National AI Market Place of India"
6. Profs. Sridhar, Balaji Parthasarathy, and Preeti Mudliar have received a grant of 19,55,800 under the "Azim Premji University Research Funding Programme - 2019" for their project titled "Online and offline livelihoods - An analysis of the impact of the gig economy on worker participation".
7. Our director Prof. S. Sadagopan, as well as Prof. S. Ramani, have been conferred the "Lifetime Achievement" award by Board For IT Education Standards (BITES).
8. Prakhar Mishra (MS2019012) is selected as an Intel Student Ambassador for Artificial Intelligence on November 28, 2019. He is working in the field of Natural Language Generation. Prof. Srinath Srinivasa is his supervisor and Prof. G. Srinivasaraghavan is Co-Supervisor.
9. Sanjaya M.V (MS2018015) is selected as an Intel Student Ambassador for Artificial Intelligence. He is working on designing domain-specific hardware architecture to run deep learning algorithms, with Prof. Madhav Rao. Congratulations to both of them!
10. Prof. S. Sadagopan awarded "**Distinguished Alumnus Award**" from College of Engineering, Guindy, Chennai in the 25th Year Celebration (March 29, 2020)
11. Prof. Sadagopan was conferred "**Lifetime achievement**" Award by Padode Foundation. Dr. Anil Sahasrabudhe, AICTE Chairman handed over the Award at Taj West End, on February 19.

CircuitVerse (<https://circuitverse.org>) is an easy to use online digital circuit simulator which aims to provide a platform to create, share and learn digital circuits. The project (mentored by Prof. Subhajit Sen) primarily developed by Satvik Ramaprasad (IMT2018006) & Zense (Student Club at IITB) has grown to be an active open source organization. **CircuitVerse** is accepted in Google Code-In 2019 as a mentor Organization. They mentored over 40 high school students to complete more than 150 tasks over a period of 2 months. They also got accepted in Google Summer of Code 2020 for the second time after successfully mentoring 3 students in GSoC 2019. During GSoC, college students from across the world contribute to the open source project and get paid for the same. GSoC 2020 Link -<https://summerofcode.withgoogle.com/organizations/4965092153622528/>

STAFF AWARDS

As part of 20th Foundation Day held on 15th September, 2019- few contests were organized and prizes to the winners were distributed at the event.

The following are the contests and winners:

Contest name: Best out of waste.

Winner: Adarsh (Finance staff)

Runner up: Kalpana (Project Staff)

2nd runner up: Mythri (Front office staff)

Contest Name: Vision 2020

Winner : Daneesh (Project staff);

Runners up: Mythri (Front office staff),
Shivaprakash (Facility and Infrastructure staff)
Tejas (iMTech).

Awards



Mr. Vivek Yadav, Project staff/ Adjunct Faculty, received Distinguished Alumni Award from Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Madhya Pradesh. The award was presented by Honourable Lalji Tandon, Governor of Madhya Pradesh, during the Foundation day ceremony in Bhopal on 5th September.

Congratulations on completion of 20 years of distinguished service



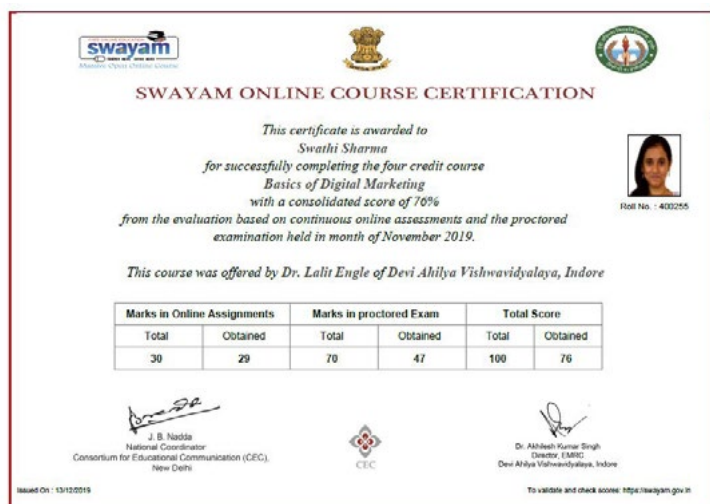
We are proud of these committed faculty and staff who have contributed to the growth of IIITB over the last 20 years. **Prof S Sadagopan, Prof K V Dinesha, S Rama Devi, M K Durai Murugan and K Somashekaraiah** were felicitated on 13th November 2019

Paper Presentations and Conferences

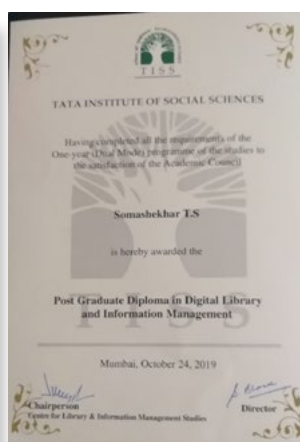
Our staff Ms Adhisaya , Ms Aswini – Project Staff – Post Doc Dr Sasirekha under the guidance of Professors Dr Jyotsna Bapat and Dr Debabrata Das presented the following papers in conferences as given below

- Published Paper in Manipal University Jaipur- ICCT'2019 Conference - Topic "Challenges in the design of an IOT Testbed" - September 2019 (IEEE Paper)
Jaipur conference date: September 28 & 29, 2019
- Paper Published in ISMAC 2019 Conference – Topic of "Robotic Extension to IOT Testbed for Indoor Environment Supervision" - December 2019 (IEEE Paper)
ISMAC conference date: December 12 to 14, 2019

Educational Qualifications



Swathi M Sharma – Basics of Digital Marketing – Swayam Online Course Certification



Somashekhar TS - Post Graduate Diploma in Digital Library and Information Management from Tata Institute of Social Sciences – Best Student Award

6. Distinguished Visitors



December 9, 2001

Dr. APJ Abdul Kalam, visit to IITB as
Chief Guest for 2nd Convocation



August 2019

- August 01: Mr. Jango Dalal, Managing Director, Technocrat
- August 02: Dr. H A Ranganath, Chairman & Dr. Somayajulu, Director, IIITDM Kurnool
- August 05: Prof. Bhavana Kanukurthi, IISc
- August 06: Dr. R. Venkatesha Prasad, TU Delft
- August 08: Prof. Dr. Uday Salunkhe, Group Director –WeSchool
- August 21: Prof. Balaraman ravindran Indian, Institute of Technology Madras
- August 27: Dr. C S Kedar, IAS(Retd), Director, Bionic Yantra
- August 27: Mr. J S Sharma & Mr. Pradeep Srivastava, IITK
- August 27: Dr. Senthil Kumar, Principal, SONA College, Salem

September 2019



- September 04: Dr. Ramana Reddy, IAS, IT Secretary
- September 10: Dr. Mukund Rao, Member-Secretary, Karnataka Jnana Aayoga
- September 10: NASSCOM delegation visit:
 1. Ms Debjani Ghosh, President – Nasscom
 2. Ms Sangeeta Gupta, Senior Vice President & chief strategy officer
 3. Mr K S Viswanathan, Vice President, Industry Initiatives
 4. Mr Shivendra Singh, Vice President, Global Trade Development
 5. Mr Srikanth Srinivasan, Senior Director & Head
 6. Mr Gaurav Hazra, Head, India Market Development
 7. Mr Gopal Sharma, Head of Finance, Operations and Controls
 8. Mr Sandeep Bahl, Senior Director-Events

9. Mr Sanjeev Malhotra, Chief Executive Office, Centre of Excellence –IoT
10. Ms Sarita Bidani Chaudhary, Head , HR
11. Mr Amit Aggarwal, Chief Executive Officer, Sector Skills Council
12. Mr Ashish Aggarwal, Head, Policy
13. Mr Ashok Pamidi, Chief Executive Officer, Nasscom Foundation
14. Ms Kavita Doshi, Director, Corporate Communications
15. Ms Sucheta Mishra Goel, TA to President
16. Mr Mohana Krishnan, Head - CoE, DS & Artificial Intelligence



- September 12: Mr. Paul Gilbert, CEO, Quanser
- September 12: Delegates of Tongmyong University
- September 12: Tunisian Delegation
- September 13: Prof. Ramasastri, Director, IDBRT
- September 13: Prof. Rahul De, IIMB
- September 13: Prof. Rajat Moona, Director, IIT Bhilai
- September 13: Prof. Madhavan Mukund, CMI
- September 13: Radhika Radhakrishnan, Centre for Internet and Society
- September 18: Mr. Pankaj Kumar Pandey, IAS, Commissioner Health and Family Welfare department
- September 18: Prof. Pratima Murthy & Dr. N Giris, NIMHANS
- September 19: Delegates from StartUp Asia Berlin
- September 27: Sara Greengrass & George Mathew, U.S. Consulate General
- September 30: Mr.Lingraju Sawkar, General Manager: Global Technology Service at IBM Indian Private Limited
- September 30: Mr.Pankaj Mishra, Economic Times

October 2019



- October 09: Prof. M K Sridhar, Canara Bank School of Management Studies (CBSMS)
- October 14: Prof. Sindhu Mathai, Azim Premji University
- October 14: Mrs. Ujjala & Mr. Manish Karle, ARAI (Automotive Research Association of India)
- October 17: Dr. Yasuyuki Sawada, The Chief Economist, ADB (Asian Development Bank)
- October 23: Visit by Business Finland
 1. Dr. Jukka Holappa, Commercial Counselor, India Country Head, Business Finland
 2. Dr. Eero Silvennoinen, Head of Innovation Collaboration, Business Finland
 3. Dr. Mika Tirronen, Counselor of Education Science, Embassy of Finland
 4. Mr. Puneet Thakur, Head of Invest in and Innovation Collaboration, Business Finland, India
 5. Santeri Ojala, Project Manager- Talent Boost India, Business Finland
- October 31: Guest for Yamini 2019
 1. Madhusmita Mohanty (Odissi),
 2. Hyderabad Sisters Lalitha and Haripriya (Carnatic Vocal Duet), Kushal Das (Sitar)
 3. Akkarai Sisters Shubhalakshmi and Sornalatha (Carnatic Violin Duet)
 4. Uday Bhavalkar (Dhrupad Vocal)



November 2019

- November 04: Mr. Daniel Castro & The Officials of The U S Consulate
- November 06: Dr. Ashish Bhardwaj, BML Munjal University & Startups from Haydn Green Foundation and University of Nottingham
- November 07: **Prof. D V L N Somayajulu, Director, IIITDM, Kurnool**
- November 07: Delegation from Japan
- November 07: Industry Leaders & ACM India Delegates for the ACM India Leaders Meet
- November 11: Mr. Madanmohan Rao, Your Story & Japanese Delegation
- November 11: Vidal Health Insurance TPA Pvt. Ltd
 1. Mr. Girish Rao
 2. Mr. S Krishnamurthy
 3. Dr. Smitha S
 4. Mr. N Amarnath
- November 12: Maharaja Yaduveer Krishnadatta Chamaraja Wadiyar visit
- November 19: Distinguished Delegates from Embassy of Finland & Business Finland
- November 27: Students from New Zealand Prime Minister's Scholarship for Asia
- November 29: Dr. Myo Kywe, Chairman - National Education Policy Commission, Myanmar & U Khin Maung Soe
- November 29: Dr. Archisman Majumdar, AVP & Lead - Applied AI, Mphasis

December 2019



- December 5: Mr. Pankaj Kumar Pandey, IAS, Commissioner Health, Family welfare and Ayush Service

DISTINGUISHED VISITORS

- December 9: Mr. Reda Rami, Chairman, Winvestnet Ltd
- December 18: Faculty and Students from MIT- World Peace University, Pune
- December 27: Dr. Marjorie Vanbaelinghem, Consul General, Consulate General of France in Bangalore

January 2020

- January 27: Dr. B N Gangadhar, Padmashree award 2020, Director NIMHANS and Team

February 2020

- January 27: Dr. B N Gangadhar, Padmashree Awardee 2020, Director NIMHANS and Team
- February 07: Dr. Karunakar, Emeritus Scientist, ADA (Aeronautical Development Agency)
- February 10: University of Stuttgart
- Dr Marco Aiello,
- Dr. Ilche Georgievski, and
- Mr. Brian Setz
- February 10: British Deputy High Commission Bengaluru and UK Artificial Intelligence Delegation to India
- February 10: Mr. Mohan, Former CEO, Ashok LeylandIT Services
- February 10: Visitors from Network of Women in Media , India (NWMI)
 1. Raihana Maqbool
 2. Sana Irshad Mattoo
 3. Marouf Gazi
 4. Masrat Zahra
 5. Rifat Mohi-ud-din
 6. Laxmi Murthy
 7. Vasanthi Hariprakash
- February 11: Prof. Rahul De', IIM Bangalore
- February 12: Dame Wendy Hall, Web Science Institute
- February 13: Anni Rowland-Campbell and Bel Campbell, Intersticia UK
- February 13: Noshir Contractor, Northwestern University
- February 13: Jai Ganesh, Mphasis Inc

- February 13: Sabu Padamdas, University of Southampton
- February 13: Nandan Sudarsanam, IIT Madras
- February 13: Pauline Leonard, Web Science Institute
- February 13: Pathik Pathak, University of Southampton
- February 14: Team of Neuro Surgeons Narayana Hrudayala
- February 17: Dr. S Sacchidanand, Vice Chancellor RGUHS & Team
- February 18: Ministry of Communications and Informatics, Republic of Indonesia
 1. Mr. Basuki Yusuf Iskandar
 2. Mr. Hedi M. Idris
 3. Mr. Hendra Fatadona
- February 19: Dr Mika Tironnen, Counsellor of Education & Science, Embassy of Finland and Mr. Santeri Ojala, Project Manager, Talent Boost India, Embassy of Finland
- February 24: **Prof. Peter Edwards, University of Aberdeen, UK**
- February 25: Mr. Kevin O' Neil, Rockerfeller Foundation
- February 28: Faculty and Students of Perumal Manimekalai College of Engineering

March 2020

- March 02: Mr. Jayant Nadiger, Trade Commissioner Flanders - Investment & Trade and Team
- March 02: Mr. Ravi Narayan, CEO, T-Hub
- March 03: Ministry of External Affairs (MEA)
 1. Mr Akhilesh Mishra, Additional Secretary (DPA- Development Partnership Administration), MEA
 2. Ms Aparna Ganesan, Under Secretary (DPA III), MEA
 3. Ms Priyadarshini Ravindran, Under Secretary (BM), MEA



7. | Dean's List



November 30, 2002

GE University Relationship
programme launched



Dean's List - June 2020

Integrated MTech

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

| Roll No | Name | Roll No | Name |
|------------|------------------------|------------|------------------------------|
| IMT2015002 | Abhiramon R | IMT2016008 | Sunkam Ramaprasad Satvik |
| IMT2015003 | Aditya Ankush | IMT2016024 | Shobhit Pankaj Behl |
| IMT2015006 | Alavala Deepika | IMT2016025 | Akshi |
| IMT2015007 | Anagha Vishnuvajjala | IMT2016050 | Biswesh Mohapatra |
| IMT2015014 | G Sravya | IMT2016052 | Aditya Gulati |
| IMT2015015 | Ghantasala Oormila | IMT2016054 | Aditya Shridhar Hegde |
| IMT2015019 | Juhi Singh | IMT2016057 | Pasumarthy Lakshmi Manonmaie |
| IMT2015031 | Pipalia Shiloni Manish | IMT2016072 | Nomula Rohith Yogi |
| IMT2015032 | Potluri Sai Rakshith | IMT2016082 | Nimisha Garg |
| IMT2015039 | Shivang Arora | IMT2016110 | Dachepalli Soumith Kumar |
| IMT2015040 | Suggu Sai Sankeerth | IMT2016120 | Sriram Marisetty |
| IMT2015044 | Utkarsh Agrawal | IMT2016129 | Ananth S |
| IMT2015504 | Aparna D Nair | IMT2017003 | Amogh Johri |
| IMT2015512 | Krishna Nagaraja | IMT2017004 | Ananya Appan |
| IMT2015517 | Pranav Aggarwal | IMT2017009 | Ayush Yadav |
| IMT2015523 | Vinay Chandrasekhar K | IMT2017013 | Deep Inder Mohan |
| IMT2016001 | Gopalakrishnan V | IMT2017016 | Eric John |
| IMT2016005 | Aayush Grover | IMT2017024 | Kaushal Mittal |
| | | IMT2017027 | Seelam Lalitha |

DEAN'S LIST

IMT2017043 Swasti Shreya Mishra

IMT2017047 Yedula Sai Dhanush Reddy

IMT2017511 Kocherla Nithin Raj

IMT2017513 Mili Goyal

IMT2017517 U Prateksha

IMT2017521 S Ram

IMT2017522 Rathin Bhargava

IMT2017524 Kalyanapu Sailesh

IMT2017525 S Prasanth

IMT2018009 Anish Rajan

IMT2018010 Aravind Veluri

IMT2018033 Jishnu Vinod Kumar

IMT2018036 Khaveesh Nagappan

IMT2018051 Nikitha A N

IMT2018052 Nipun Goel

IMT2018059 Rohit Katlaa R

IMT2018060 Sahaj Kuman Vaghasiya

IMT2018067 Sama Sai Karthik

IMT2018086 Vinayak Agarwal

IMT2018504 Arpitha Malavalli Srivathsa

IMT2018509 Karthik Hegde

IMT2018527 Tanmay Joshi

IMT2019001 Abhinav H Kamath

IMT2019004 Adrij Sharma

IMT2019010 Ankit Agrawal

IMT2019028 Divyam Agrawal

IMT2019034 Gunin Jain

IMT2019043 Kautuk Raj

IMT2019046 Krishna Sharma

IMT2019048 Lovejeet Singh Parihar

IMT2019055 Muppuri Siva Jagadesh

IMT2019068 Rachapudi Maruthi Sriram

IMT2019069 Rachna S Kedigehalli

IMT2019070 Rajath Rao K N

IMT2019075 Samaksh Dhingra

IMT2019087 Supreeth Varadarajan

IMT2019091 Venkat Suprabath Bitra

IMT2019092 Vignesh Bondugula

IMT2019097 Yashovardhan Reddy Komma

IMT2019508 Kalahasti V V Deepesh

IMT2019509 Lalith Kumar Reddy G

IMT2019518 Ruturaj Mohite

IMT2019525 Vijay Jaisankar

IMT2019529 Raghava S N

Dean's List - June 2020**MTech**

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

| Roll No | Name |
|----------------|--------------------------------|
| MT2018126 | Tushar V Bharadwaj |
| MT2018130 | Vasu Bansal |
| MT2018510 | Karthik S |
| MT2018523 | Peddineni Siva Mounika |
| MT2019134 | Vipin Rai P |
| MT2019509 | Kirti Khandelwal |
| MT2019513 | Kunchala Jaya Naga Sai Bhargav |
| MT2019517 | Paliseti Sai Ram |
| SMT2017005 | Inbarajan P |
| SMT2017013 | Rahul Kumar |
| SMT2017023 | Sowbarnika Thiruppathiraj |
| SMT2017027 | Surendra Pandey |
| SMT2018013 | Narasimha Rao Thurlapati |
| SMT2018015 | Pavithra Vancheeswaran |
| SMT2018025 | Yogesh Kochar |

Dean's List - June 2020**MSc (Digital Society)**

The Dean's List at IITB honors the students of MSc (Digital Society) who have attained a cumulative GPA of 3.75 or above. The list is updated annually.

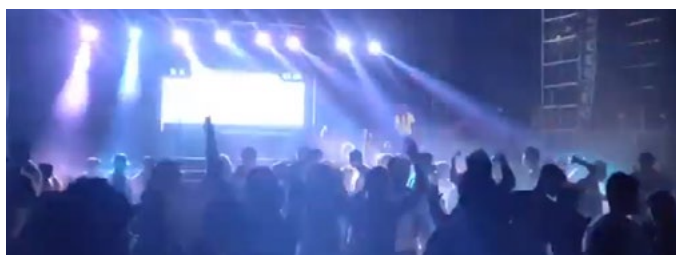
| Roll No | Name |
|----------------|------------------|
| DT2018007 | Srravya C |
| DT2019006 | Nimisha Karnatak |
| DT2019108 | Umar Abdul Aziz |



The Alumni Day of IIT Bangalore, **"Sangam"** which was held on 22nd February 2020 was a grand success with the following events and arrangements at Football Ground, IIT Bangalore.

The registration and high tea began at 4:00 pm, followed by an hour's tour at the MINRO Experience Center. The tour involved a showcase of some of the research conducted at IIT Bangalore as well as some products by the startups. The event was then continued at the football ground of the institute. The team had set up a huge stage with an amazing AV setup and lighting.

The President of the alumni council, Mr Hemachandra Rao V welcomed the audience and handed the stage to the hosts, Mr Deep Inder (current student) and Ms Tarini Chandrashekhar (alum). The stage event began with a classical song followed by a high energy dance by some students. The director, Prof. S Sadagopan updated the alumni, their families, faculty members, staff and students about the highlights of the year. This was followed by a spellbinding vocal performance by two alumni - Dakshayani and G Akhil. Mr Hemachandra then gave updates about the various activities undertaken by the council and alumni throughout the year. The Dean (Academics), Prof. Chandrashekar Ramanathan and Prof. Sujit K C mesmerised everyone with an amazing band performance along with some students.



ALUMNI ACTIVITIES

The event then continued with a talk on the **MOSIP (Modular Open Source Identity Platform)** project by Mr Arun Kumar (Project Manager - MOSIP) who detailed the audience about the aim and achievements of the open-source project. Also, Ms Vidhya Y, an alumna of the institute shared her experience about her life in IIIT Bangalore as a visually impaired student and about her startup - Vision Empowerment. She expressed gratitude towards the institute for all the support that she received as a student, an alumna and an entrepreneur.

The hosts of the event kept the audience involved with their quick-witted, humorous anchoring. The students of the institute and alumni put together a set of performances which were colorful, hypnotizing and energizing. The institute also invited a stand-up comedian, Mr Naveen Richard who gave a rib-tickling performance.

Special dinner was arranged for the faculty, staff, students and the alumni. There were quite a few food stalls serving a variety of dishes such as chaat, dosa, pasta, sandwiches, momos, etc. A tattoo stall was also brought to ink down a few memories for the alum to take back.

There was a photo booth installed for the alumni as well. While the alumni enjoyed the programme, their wards were entertained in the children's section which had movies and games. Our artistic students entertained the kids with temporary tattoos of their favorite cartoon characters. The students played the role of professional photographers for the evening and covered the event. The hospitality, registration and event management team took care of smooth progress of the event under the guidance of the alumni committee.

The dinner was followed by a rocking performance by **The Juke Radio** (A famous carnatic progressive band based out of Bangalore) and then DJ Sriram continued the groove by playing some amazing music, both of which kept the alumni and students on their toes. The event ended with Tambola - the proceeds of the ticket being donated to Aikyam - a social wing of IIIT Bangalore. The alumni and students had lots of fun, making it an event to remember and cherish and helping the alumni connect with their friends and the institute.







IIITB participated in the **Bengaluru Tech Summit (BTS)** held during November 18-20 at Bengaluru Palace.

Day 1:

Deputy CM Shri Ashwathnarayan, IIITB Chairman Kris Gopalakrishnan, Biocon Chief Ms. Kiran Majumdar Shaw visited our stall in the presence of Director Prof S Sadagopan, and inaugurated Bionic Yantra's Exoskeleton. The Startups that were showcased at BTS 2019 were: Bionic Yantra, nSmiles, Iotracx, Vision Empower, Friends for Inclusion, Ziroh Labs, Cogno – A Web Observatory for Observing online social cognition, Hyper Reality, Archive of Indian Music, MINRO, eHRC, CITAPP, Innovation Centre & MOSIP. Our stall had the privilege of receiving several distinguished visitors - H. E Pham Sanh Chau, Ambassador of Vietnam to India, was among them. There was a Roundtable with the Delegation from Finland at the Tech Summit. This was chaired by Pekka Silvonnen (Head, Digital Transformation Finland) & Mika Tironnen (Counsellor Education, Embassy of Finland, India). Ravi Gururaj & Naganad Doreswamy too visited our Stall and applauded the Startup Ecosystem. Jayant Nadiger (Trade Commissioner, Flanders, Belgium) led a Belgian Startup /Innovation Team for Discussion on Partnerships and met with the IIITB Team.

Day 2:

Started with our Director Prof. S Sadagopan, delivering the Keynote Address for the Skill Summit in the presence of Shri Nagesh H (Minister for Skill Development, Entrepreneurship and Livelihood & Excise), Dr. S Selvakumar (IAS, Secretary for Skill Development,

Entrepreneurship and Livelihood) and Dr. E V Ramanana Reddy (Additional Chief Secretary - Dept of IT, BT, S&T). This was followed by a Panel Discussion on "Digital Identity & Development" where Prof. S Sadagopan participated along with Sanjay Anandram, Srikant Karwa from MOSIP and Krupesh Bhat from Legal Desk. His Highness Shri Maharaja Yaduveer Krishnadatta Chamaraja Wadiyar also enthusiastically visited our Stall. He was also present for the Final Round of the Rural IT Quiz as well as, for the Prize Distribution. Shri Priyank Kharge (MLA & Ex-Minister for IT, BT, S&T), Former Minister Shri R V Deshpande, Shri Arnab Kumar From NITI Aayog, Sebastian Hug (the Swiss Consul General to Bangalore & CEO of Swissnex India), and a Delegation from RGUHS led by Shri Rajesh Shenoy also visited us. Other dignitaries like H. E Emmanuel Lenain, the Ambassador of France to India, accompanied by Consul General Marjorie Vanbaelinghem and Science Attache, Jerome Bove also visited our Stall.

Day 3:

Opened with presentations on our K-Tech Centre - Machine Intelligence and Robotics (MINRO) at IIITB by Director Prof S Sadagopan, Dean (Academics) Prof. R Chandrashekar, Prof. Tridib Roy Choudhury, Chief Program Officer -MINRO and Mr. Kedar, Co-Founder Bionic Yantra. IIITB received Best Exhibitor Award in the Interactive and Best Managed Category, at the BTS Awards Night

73rd Independence day celebration



The celebration at IIITB was not just about tricolour hoisting and national anthem sung in unison! The campus hosted over **25 children from Surabhi Foundation Trust**, an orphanage in Bengaluru, to spend the day with the students of IIITB. The celebrations involved cultural programs by IIITB students as well as the children from Surabhi Foundation Trust. Tree plantation activity was also organized on the campus under HRD ministry's new campaign, "One Student One Tree".

Advanced Computing and Communications Society

The Advanced Computing and Communications Society (ACCS) unveiled the 25th edition of its flagship conference – **Advanced Computing and Communications (ADCOM 2019)** on September 5 at IIITB campus in Electronic city. This year, the conference explored the 5th generation of technology in cellular mobile and wireless communications (5G).



RMIT 2019

The tenth edition of **RMIT** was held at IIITB during 29th-31st October, 2019. It featured 12 invited eminent speakers from across the country. The event witnessed more than 200 registrations, of which, 50 were external registrations.

ACM India Industry Leaders meet

IITB hosted the **ACM India Industry Leaders meet** on 7th November. The event was organized by ACM India to seek inputs from industry leaders regarding activities and their vision for ACM India. The event was well attended. Around 15 leaders from various product and IT firms in Bengaluru participated, including Mr. Narayana Murthy, representing Infosys.

His Highness YKC Wadiyar visit

His Highness Yaduveer Krishnadatta Chamaraja Wadiyar visited our campus on 12th November and discussed various opportunities to collaborate with IIITB. Bherunda Foundation presented regarding its various projects and IIITB made presentations about the Institute and its various centers.



Continental and IIITB signed a MoU

On 21st November, Continental and IIITB signed a MoU to establish strong collaboration in research. Teaching and other activities. This is the outcome of a year-long discussion with the **ADAS team from Continental**, on possible modes of collaboration. The first activity will be, to conduct a specialized course on Advanced Radar Sensing for RADAR engineers at Continental. Prof. Vinod will offer this customized course.

Users Meet -Winter 2019



The National Resource Center for EHR standards (NRCeS), India, organized '**Users Meet -Winter 2019**' co-hosting it with E-Health Research Center (IIITB) at our campus. This event was held to share experiences about implementation and adoption of E-Health Records (EHR) standards, practical challenges, solutions, best practices and future approaches from across the country. The one-day event, organized on November 22, was attended by professionals and stakeholders working in the field of e-health, including government Officials. The event also marked the announcement of the release of drug code list by NRCeS which is significant milestone in the EHR adoption journey in the country. Ms. Manisha Mantri outlined various initiatives of NRCeS and updated on the recent work and milestones. Prof. Srikanth (EHRC-IIITB) outlined

the privacy and security challenges that are to be considered during EHR implementations, by giving an example of Karnataka Mental Health Management System done by E-Health Research Center of IIITB, in collaboration with NIMHANS and Government of Karnataka. The bi-annual event is an effort to bring Health and IT leaders together towards building interoperable healthcare system in the country. It also collates the analysis and observations made by the participants and presents it to the Ministry of Health and Family Welfare, Government of India (MOHFW).

Intel India Research Colloquium

Pragyan Mohapatra (MS2018009) and Prof. Jaya Sreevalsan-Nair presented their work on "**Uncertainty Analysis in Point Cloud Classification: Impact of Entropy in Geometric Classification and Semantic Homogeneity**" during the poster presentations, at the Intel India Research Colloquium on October 22. The poster titled "Automatic Follow-Up Question Generation for Asynchronous Interviews" by Pooja Rao (MS2015009) won the first runner-up for the Best Poster Award at the 10th Grace Hopper Celebration India (GHCI) 2019 conference. GHCI 19 was held during 6-8 November 2019 in Bangalore. This was judged by domain experts from American Express, Ernst & Young, Wells Fargo, Amazon, Expedia etc. She also received the 'Student Scholar' pass to attend the conference. Harshitha Ravindra (PH2018019) and Jaya Sreevalsan Nair presented their work on "Visual Analytics of Population Health Surveys: NFHS-4" at the project showcase during IBM University Relations annual event, "Gratitude", at IBM EGL campus, Bengaluru on November 21.



Inauguration: Transformational Lab



A Transformational Lab for teaching and research in the era of advanced robotics, autonomous systems and artificial intelligence was **inaugurated in the MINRO CoE** on December 9. The lab will be a state-of-the-art platform for exploring advanced engineering design and application concepts in machine intelligence and robotics. The research studio is a combination of ground robots and drones, representing a complete modern intelligent cyber-physical system. The lab will support a broad range of courses in electronics, mechatronics, computers science, smart automation, intelligent machines, multi-robot applications, autonomous robotics applications among others. The lab has been set up in partnership with Quanser, a world leader in innovative technology for engineering education and research.



Winter School on Towards an **"Ethical Digital Society: From Theory to Practice"** was held during December 9-11.

IIITB Faculty Retreat

This was held on December 13th to discuss primarily: **National Education Policy and Strengthening Research**. Following five recommendations were suggested as the take-aways from the meeting:

- IIITB should aspire to be in Type 1 institute category, focusing more on multidisciplinary research and teaching.
- Faculty members to be encouraged to align their research interests with the existing four centers: EHRC, MINRO, upcoming Big Data, and CITAPP.
- Experiment with MOOC and equivalent video lectures up to 20% in the existing courses taught by IIITB faculty post Senate approval.
- Institute support for inviting Visiting faculty, recruiting Post-Doctoral Fellows, and quality Ph.D. students' needs to be initiated.
- Metric system especially for evaluating non-project funded research projects, research having high special impact need to be evolved and applied for evaluation and assessment.

Global Leadership Experience

The Global Leadership Experience Bangalore programme was organized by Common Purpose during 16 -20 December, in partnership with King's Business School, London, and was hosted at IIITB. Global Leadership Experience 2019 is a week long programme attended by students from 23 Countries (India, Austria, British Isles, Brazil, Bulgaria, Canada, Colombia, Denmark, France, Italy, Ireland, Lebanon, Lithuania, Norway, Poland, Philippines, Portugal, Romania, Slovakia, Syria, Taiwan, Turkey & United States). Profs. V Sridhar, Ramesh Sundararaman, Uttam and Tridib Roy Choudhary were involved in this event.

Prof. S. Sadagopan, Director, IIITB, officially launched our **new website** on December 23.

Happy Healthy Hour



On December 18, the fifth edition of **Happy Healthy Hour** was organized in the campus for faculty and staff. The event involved a Running/Walking race on a stretch of 1 km in four categories - (a) Gentlemen above 50 (b) Gentlemen below 50 (c) Ladies above 50 (d) Ladies below 50. The enthusiastic participants completed the 1 km stretch around the campus. A Balloon Caterpillar Race was held. It is a race where from start-to-finish the participants compete by inserting a balloon between them. This was followed by a team event that run a 3-legged race. The much-enjoyed event ended with prize distribution.

Christmas Celebration

In keeping with the December festive vibes, Christmas Celebration was organized on the campus for faculty, staff and students on December 20. The event began with the singing of traditional carols. The most entertaining and eye catching part of the event was - when Santa arrived on the campus! With loads of cheer and joy ! Santa distributed gifts, wished and shook hands with everyone. Cake-cutting was also organized. Indeed, it was a joyous occasion for all of us!!



New Year, 2020



IIITB welcomed the New Year, 2020 with "The Customary Plantain Leaf Lunch" on January 1. All the faculty and staff enthusiastically joined in for the traditional South Indian lunch. Cheerful participation in ethnic clothes made the atmosphere festive. Besides, the event was also attended by some of IIITB Board members.



An **MoU was signed** between IIITB and Bherunda Media / Bherunda Foundation for collaboration towards "An Initiative On Digital Heritage & Culture" on January 9.

Sankranti celebrations

Sankranti celebrations reached a crescendo as the students of IIITB came together and celebrated the festival on January 15 at IIITB campus. Being a college that takes pride in its diversity, the festival was celebrated by incorporating different cultural habits of various states - feasting on delicious Pongal, dancing around the bonfire at Lohri Celebrations. The icing on the cake was : Kite flying.

STEM Confluence 2020

The Inclusive **STEM Confluence** 2020 was conducted at IIITB during 17-18 January. This event was attended by 120 participants over two days - mainly from the IT industry, higher technical institutions, special schools for persons with disabilities and Non-Governmental Organizations working in the area of accessibility.

In its third year, this event aims to question our, often, 'knee jerk' reaction to diversity - striving to make inclusion an everyday aspect of our work and educational environment rather than something that needs special attention. The 2020 Confluence had multiple tracks: a 24-hour hackathon, workshops, round table discussions, an assistive technology product exposition and an employer connect initiative. Seven 'inclusive' teams, each consisting of 5-6 persons from among persons with disabilities (PWDs - visually impaired, hearing impaired and those with locomotor issues) as well as other non-PWD working professionals from the IT industry and students from higher technical institutions (mainly IITs, IIITs and NITs) participated in the 24-hour hackathon. Of the top three teams, the first placed team developed a voice enabled flow chart reader for visually impaired programmers, the second placed team developed an intrusion detection application to be used by both visually impaired and hearing impaired computer users and the third placed team worked on a 'spot-me' application that would enable visually impaired persons inside classroom settings to understand if they were being spoken to.

The Inclusive STEM Confluence 2020 was organized by I-Stem, E-Health Research Centre (EHRC) at IIIT Bangalore, Vision Aid, Vision Empower and the Xavier Resource Centre for the Visually Challenged (XRCVC) and sponsored by Intel, Microsoft, Morgan Stanley and the Dhun Pestonji Parakh Discretionary Trust.

Handing over of Bionic Yantra



Exoskeleton Assisted Rehabilitation System (REARS)" device to IIITB was held on January 22. REARS is a powered, intelligent device to provide calibrated support and on-demand assistance for limb movement as required during rehabilitation.

71st Republic Day



IIITB celebrated the **71st Republic Day** on January 26. The event began with flag hoisting by Director, Prof. S. Sadagopan. This was followed by his address to students and everybody taking the national pledge. "One Nation, One Vision, One Identity". Besides, Naga Srihith Penjerla (IMT2019056) talked about the journey of Republic India.

Extending MoU



IITB & NIMHANS strengthened their bond by extending the **MoU** for exploring new areas of collaboration and technologies on January 27. Way back, in 2016, IITB and NIMHANS had signed an MoU to accelerate the research efforts in both institutes in areas of mutual interest, by leveraging the information technology-related skills from IITB and medical domain expertise from NIMHANS. At the event, the institutes reviewed the progress of the collaboration over the last 3 years. The meeting was presided by the Directors of the two institutes, Dr. Gangadhar and Prof. S. Sadagopan. They discussed aspects that could further strengthen the collaboration.

War of Words

Debate Club, organized **"War of Words"** on January 29th which was meant to bring professors and students together to debate on topics of immediate relevance. The first round involved professor-student teams - who would have to speak on a topic handed out.

The second round was a panel discussion on the topic "Should religions be banned from the face of the earth?". The teams were allowed to explain their views on the topic, followed by cross-dialogue between teams. The audience was allowed to question the teams at the end. The enthusiastic participation generated great interest and cheer.

Aikyam



Celebrations should never be in isolation! Aikyam- the social wing of IITB, took the initiative of inviting **Surabhi Adwaya Orphanage**. The pickup and drop facility and coordination for the same was taken care of by IITB and Aikyam Student Coordinators. Children graced the occasion with their speeches and group dance. Students from both the institutions celebrated Republic Day with a spirit of togetherness. IITB Literature Club expressed its love for the Republic Day event by its performances. Manpreet Kaur Jaswal (PH2016006) recited a poem which she had penned down to express her love and respect for the Indian Flag and the struggle of independence. Besides, Nikhila, Varsha and Aishwarya sang the poem "Varika Varika Sahajare" written by freedom fighter Amsi Narayana Pillai which was tuned to music during the Salt Satyagraha. IITB Music Club mesmerized the audience with their melodious patriotic group performance.





1st Graduation Ceremony for 1st batch of Big Data in Biology Program participants on February 23, 2020.

Workshop on Advanced Spatial Analytics and Deep Learning

International Workshop on **Advanced Spatial Analytics and Deep Learning** for Geospatial Applications was jointly organized by IIITB and C-SAG during 20 - 31 January. This was a 10-day workshop covering advanced concepts, technology scenarios and applications of Spatial Analytics and Deep Learning models. 62 participants from Government agencies, Academia, NGO & Private sectors participated in the workshop

Cyber-Forensics Workshop



A two-day **Cyber-Forensics Workshop** for the personnel of the Karnataka State Police was held at the Institute during 14-15 February. 30 Law Enforcement Officers of various ranks attended the event; it also featured talks by invited experts on Cyber-Forensics.

Workshop on Web Science for Development



IIITB formally became part of the **worldwide network of laboratories on Web Science**, called WSTNet. As part of this, the Web Science Research Group at IIIT Bangalore conducted the Second Workshop on Web Science for Development (WS4D 2020), between February 12-14. The workshop was supported by the Mphasis F1 Foundation, as part of the Centre of Excellence on Cognitive Computing.

FACULTY ACTIVITIES



- **August 5:** "Tour de Crypto" by Prof. Bhavana Kanukurthi, Computer Science and Automation, IISc. For video: <https://videoken.com/embed/-hRhWqTRotU>
- **August 12:** "Cryptanalysis of a Protocol for Efficient Sorting on Homomorphically Encrypted Data" by Prof. Srinivas Vivek, IIIT Bangalore. For video: <https://videoken.com/embed/wGEGlowB0zc>
- **August 19:** "Security in Multi-hop Wireless Networks" by Prof. Tricha Anjali, Ms. Anjana Prabhakar, and Ms. Priti Kumar, all from IIIT Bangalore. For video: <https://videoken.com/embed/-aEzJODfJrY>
- **August 26:** "Fault-tolerant Distributed Consensus : The Holy Grail Problem of Distributed Computing" by Prof. Ashish Choudhury, IIIT Bangalore. For video: <https://videoken.com/embed/NzTrTvKviQI>
- **September 5:** "Re-architecting Education for 21st Century Relevance: The IIMBx Experience", by Prof. P. D. Jose, IIM Bangalore
- **September 9:** "Navigated Learning: Pedagogy for a connected world", by Prof. Srinath Srinivasa
- **September 16:** "Teaching the Millennial Generation and The Future of Learning", by Prof. Chetan Parikh.
- **September 23:** "The constructivist learning paradigm and technology choice in publicly-funded schools", Prof. Amit Prakash
- **September 30:** "Using AI to Transform Informational Videos and Our Watching Behavior", by Prof. Manish Gupta.
- **October 14:** "Shifting Landscapes of Assessment in Elementary School Education" by Prof. Sindhu Mathai, Azim Premji University
- **October 21:** "Assessment for Good Learning" by Prof. N. J. Rao
- **October 28:** "Scalable and Secure Architecture for Online Assessments and Evaluation" by Prof. Chandrashekar Ramanathan
- **November 4:** "Education and Technology: Assessments and Evaluation" by Dr. Shilpi Banerjee, Azim Premji University
- **November 18:** "Automated Evaluation of Programming Assignments" by Prof. Sujit Kumar Chakrabarti, IIIT Bangalore.
- **November 27:** "Education and Technology: Assessments and Evaluation" by Prof. K.V. Dinesha, IIITB.

- **December 02:** "Decoding Typing in Indic language using Cognitive Modeling" by Sanjay Ghosh, Senior User Experience Researcher, Google, Bangalore
- **December 12:** "Design for Digitalization" by Mr. VeeraVenkata Atmakuri, Head of Experience Design Siemens.
- **December 16:** "Thinking institutionally about technology design for social inclusion" by Prof. Balaji Parthasarathy, IIIT Bangalore
- **January 06:** "Data Driven Decisioning: How Efficient Computing can make at-scale NLP Applications Practical" by Dr. Om Deshmukh, Independent Researcher on Machine Learning.
- **January 13:** "Dynamics of complex behaviour in natural systems" by Prof. Janaki Balakrishnan, National Institute of Advanced Studies, Bangalore.
- **January 20:** "Do the next billion users need more innovation? Rethinking AI for the common good" by Prof. Payal Arora, Erasmus University Rotterdam, the Netherlands.
- **January 27:** "Counting Holes in the Data" by Prof. Amit Chattopadhyay, IIITB.
- **February 3:** "Turbulent Flow Modeling with Focus on (a) Financial Systems, (b) Invariants and Cascades in MHD" by Prof. Shiva Kumar Malapaka.
- **February 10:** "The physics of things: modelling across length scales" by Prof. Balakrishnan Ashok.
- **February 17:** "Geometric Signatures of Airborne LiDAR Point Clouds" by Prof. Jaya Sreevalsan Nair.
- **February 24:** "Reflections on Work, Technology and the Economy" by Prof. Vinod Vyasulu (Retired) and Prof. Janaki Srinivasan.
- **March 9:** "Governing Artificial Intelligence: Re-framing the Discourse on the Future of Work in India- Samvadd by Mr Abhayraj Naik, Azim Premji University,

Guest Talks

August 1: "Designing and Envisioning Digital Tools for Low-resource Jobseekers in the U.S." by Dr. Tawanna Dillahunt, University of Michigan Awards September 13: "AI in Healthcare" by Radhika Radhakrishnan, Programme Officer, Centre for Internet and Society, New Delhi.



August 21: IIIT Bangalore organized the second edition of the public lecture series 'Bangalore on IT'. The lecture was delivered by Dr. Balaraman Ravindran, Head, RobertBosch Centre for Data Science and Artificial Intelligence, and Professor of Computer Science and Engineering, IIT Madras. The title of the talk was, "Why the Recent Excitement in Artificial Intelligence."

September 17: "WhatsApp Vigilantes? An exploration of citizen reception and construction of WhatsApp messages' triggering mob violence in India" by Anushi Agrawal & Nihal Passanha, Maraa, Bangalore.

December 13: Dr. Gayathree Mohan, Independent researcher on "Identification of Non-Clinical Interventions for Spontaneous Recovery of Depression Using Mathematical Modeling"

9. Financials



August 5, 2016

IIITB UpGrad Online Program Launch



31-March-2020

31-March-2019

INCOME

Tuition Fees | Hostel and Facility Fees | Academic Activities | Interest on Bank Deposits
Other Receipts | MIIT Mentoring Income

1,60,28,41,418



1,16,07,40,084



EXPENDITURE

Faculty & Staff Expenses | Student Expenses | Academic Expenses
Infrastructure Expenses | Administrative & General Expenses
MIIT Project Expense

1,24,99,20,428



91,01,90,936



SOURCE OF FUNDS

Capital Grants | Corpus Account | General Fund
Research Grants | Grants for Scholarship | Grants for Travel
Chair Professorship | Endowment funds
Designated/Earmarked Funds

1,13,01,66,696



81,73,81,894



APPLICATION OF FUNDS

Fixed Assets

25,74,91,538



22,57,62,693



Current Assets, Loans and Advances

1,24,41,27,955



Advances & Receivables | Deposits | Prepaid Expenses
Cash & Bank Balances | MIIT Project Current Assets

1,07,97,70,239



Less: Current Liability and Provisions


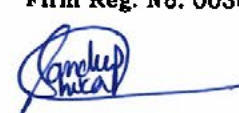


37,14,52,800

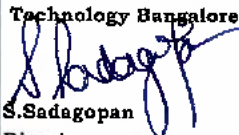



Current Liabilities | Provisions | MIIT Project Current Liabilities

48,81,51,039



| 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 2020 | | | |
| Income | Sch.No. | 31-Mar-20 | 31-Mar-19 |
| Tuition Fees | N | 1,41,23,72,151 | 96,03,23,303 |
| Hostel and Facility Fees | O | 4,05,44,917 | 4,80,93,624 |
| Academic Activities | P | 4,54,28,135 | 2,33,33,285 |
| Interest on Bank Deposits | Q | 4,31,28,423 | 3,19,03,272 |
| Other Receipts | R | 4,65,63,685 | 4,40,51,690 |
| MIIT Mentoring Income | X3 | 1,48,04,108 | 5,30,34,910 |
| TOTAL (a) | | 1,60,28,41,418 | 1,16,07,40,084 |
| Expenditure | Sch.No. | 31-Mar-20 | 31-Mar-19 |
| Faculty & Staff Expenses | S | 21,00,29,223 | 18,20,00,474 |
| Student Expenses | T | 1,17,96,848 | 89,92,914 |
| Academic Expenses | U | 91,21,28,151 | 60,55,34,342 |
| Infrastructure Expenses | V | 6,34,54,004 | 6,50,18,113 |
| Administrative & General Expenses | W | 4,97,75,681 | 4,65,01,308 |
| MIIT Project Expense | X4 | 27,36,522 | 21,43,785 |
| TOTAL (b) | | 1,24,99,20,428 | 91,01,90,936 |
| Excess of Income before Interest, Depreciation and Appropriation (a-b) | | 35,29,20,990 | 25,05,49,147 |
| Depreciation on Assets | F | (2,00,62,332) | (1,97,19,417) |
| Excess of Income before Appropriation | | 33,28,58,658 | 23,08,29,730 |
| Appropriation: Transferred to Student Benevolent Fund | | 47,43,447 | 62,27,164 |
| Appropriation: Transferred to Corpus Fund | | 20,00,00,000 | 10,00,00,000 |
| Surplus/ (Deficit) for the year transferred to Revenue Account | | 12,81,15,211 | 12,46,02,566 |
| Significant Accounting Policies & Notes forming part of Accounts | Y | | |
| As per our report of even date | | | |
| For International Institute of Information Technology Bangalore | | For Rao Associates Chartered Accountants Firm Reg. No. 003080S | |
|  S. Sadagopan Director | |  Sandeep S Shekar Partner Membership No. 232631 | |
|  | |  | |

| International Institute of Information Technology - Bangalore 26/C, Electronics City, Hosur Road, Bangalore - 560 100 Balance Sheet as at 31st March 2020 | | | |
|--|---------|--|-----------------------|
| (Rs.) | | | |
| SOURCE OF FUNDS | Sch.No. | 31-Mar-20 | 31-Mar-19 |
| Unrestricted Funds: | | | |
| Capital Grants | A | 28,37,00,000 | 28,37,00,000 |
| Corpus Account | B | 44,28,62,394 | 20,40,47,728 |
| General Fund | C | 22,89,18,363 | 10,08,03,152 |
| Restricted Funds: | | | |
| Research Grants | DA | 8,55,76,201 | 14,79,48,527 |
| Grants for Scholarship | DB | 3,74,28,186 | 2,21,24,176 |
| Grants for Travel | DC | - | 34,737 |
| Chair Professorship | EA | 3,07,05,444 | 4,28,24,512 |
| Endowment funds | EB | 26,38,626 | 19,80,345 |
| Designated/Earmarked Funds | EC | 1,83,37,481 | 1,39,18,718 |
| Total | | 1,13,01,66,696 | 81,73,81,894 |
| APPLICATION OF FUNDS | Sch.no. | 31-Mar-20 | 31-Mar-19 |
| Fixed Assets: | | | |
| Net Block | F | 25,74,91,538 | 22,57,62,693 |
| Current Assets, Loans & Advances: | | | |
| Advances & Receivables | G | 6,53,62,119 | 3,92,68,022 |
| Deposits | H | 3,19,900 | 3,19,900 |
| Prepaid Expenses | I | 73,13,095 | 73,84,577 |
| Cash & Bank Balances | J | 1,08,65,40,477 | 86,07,77,508 |
| MIIT Project Current Assets | X1 | 8,45,92,363 | 17,20,20,232 |
| | | 1,24,41,27,955 | 1,07,97,70,239 |
| Less : Current Liabilities & Provisions: | | | |
| Current Liabilities | K | 30,95,08,167 | 32,78,82,794 |
| Provisions | L | 2,79,47,437 | 2,43,94,873 |
| MIIT Project Current Liabilities | X2 | 3,39,97,197 | 13,58,73,372 |
| | | 37,14,52,800 | 48,81,51,039 |
| Net Current Assets | | 87,26,75,154 | 59,16,19,200 |
| Total | | 1,13,01,66,696 | 81,73,81,894 |
| Significant Accounting Policies & Notes forming part of Accounts | Y | | |
| For International Institute of Information Technology Bangalore  S. Sadagopan Director Place: Bangalore Date: 16.09.2020 | | As per our report of even date For Rao Associates Chartered Accountants Firm Reg. No. 003080S  Sandeep S Shekar Partner Membership No. 232631 | |



Infrastructure addition

The puja to mark the start of the building construction of the additional floor at Ramanujan Phase II was held on August 19th.

The lounge area (with a contemporary interior design), on the first floor of Lilavati block (Women Hostel 1) was inaugurated on January 8. Prof. Jaya Sreevalsan Nair (Warden, Women's Hostel) inaugurated it in the presence of the Director, Prof. Nanditha Rao, (Warden, Women Hostel), administrative staff, the Student Activity Council (SAC) members, and few students. This is an effort towards increasing social spaces on the campus. The administrative office has been instrumental in the realization of this facility which has seating capacity of around 15 with basic amenities for dining.

Bhaskara and Lilavati laundry rooms were inaugurated by Ms Ranjani Niranjani as well as a parent of an iMTECH student, on January 22, 2020, in the presence of the Director, administrative staff, and hostel wardens. Bhaskara and Lilavati laundry rooms have five and two washing machines, respectively, and a dryer each.

Additions to infrastructure in campus

- Rain water harvesting of roof water with an underground tank of 100,000 litres capacity to collect approximately 200,000 – 300,000 lakh litres of rainwater per year.
- Cloak rooms in hostel blocks for safe and secure storage of students' belongings.
- Separate laundry facilities for men and women with self-operated heavy-duty automatic washing machine. Six of these have already been installed in men's hostel and two in women's hostel.
- Butterfly Parks with approximately 1,200 shrubs measuring around 110 square metres near Upper Pond and Lilavati have been set up.
- Miyawaki Forest with plants of different heights in high density has been created.



Self-operated heavy-duty automatic washing machines were installed at men's (six units) and women's (two units) hostels.

Ramanujan Phase II

| Details | Nos | Total SMT | Total SFT |
|-------------------------|-----|------------------|-------------------|
| Seamless Labs | 13 | 975 | 10,500 |
| Small Class Rooms | 3 | 250 | 2,650 |
| Indoor Badminton + TT | 2+4 | 600 | 6,500 |
| Meeting Rooms | 3 | 100 | 1,050 |
| Auditorium Lobby | 1 | 325 | 3,500 |
| Auditorium - 1071 Seats | 1 | 1,550 | 16,750 |
| Total | | 3,800 SMT | 40,950 SFT |

11. | Labs



June 25, 2018

Inauguration of MINRO lab in
Ramanujan block by Mr. K J George



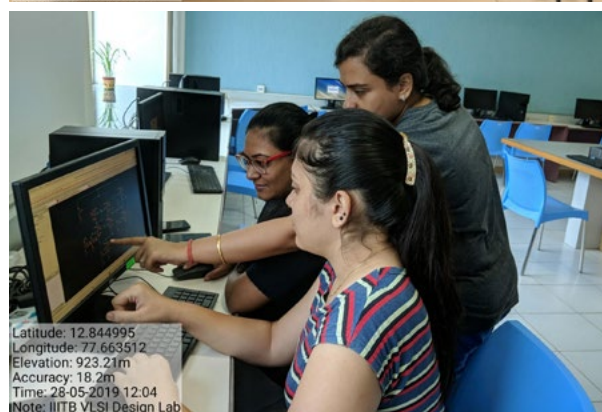
Labs at IIIT Bangalore

IIITB has state-of-art lab facilities since inception that aligns with the Institute's vision of producing highly skilled and industry-ready students. The labs have been the core part of IIITB curriculum, and research over the years, and is also extended to incubated companies recently. With the seamless integration of software and hardware labs, we have created a unique 21st century lab model at IIITB.

IIITB has eight physical labs including Electronics, Networking, Programming, Computer Architecture, Communication, Embedded systems, and VLSI Design labs dedicated for teaching a wide variety of courses. These include Basic Electronics, Microprocessor, Circuit theory, four programming courses, Computer Architecture, FPGA system design, and advanced graduate level courses including IoT, Digital VLSI, Analog VLSI design, and others.

Overall, an average of 550 students in an academic year (more than 50% of student population) studying in 25 courses, utilize the seven labs which makes it an extensively used physical infrastructure at the Institute. IIITB has also invested in a Robotics (Tinkering) lab driven completely by students since academic year 2017-18. This is highly appreciated and considered novel by various academic and industry delegates who have visited the institute in the past.

Currently in the pandemic situation, we have followed a unique model of **lab-at-home** approach. For few courses, IIITB has taken the initiative to assemble kits containing all components used for the lab courses and have shipped to students. IIITB has received positive responses from students and parents for driving this unique model in academics.



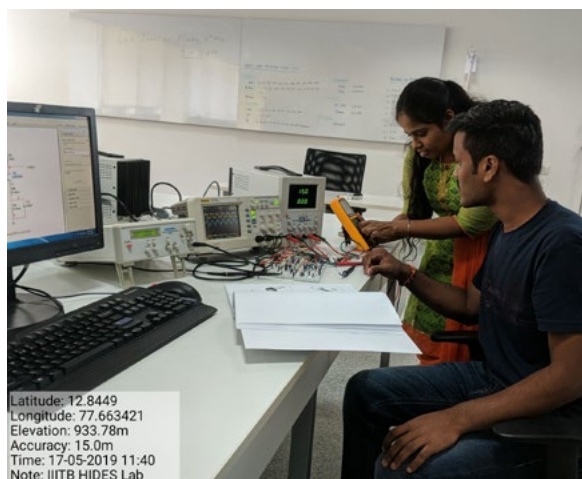
LABS

Besides teaching labs, IIITB has nurtured various research labs catering to four Verticals – E-Health Research Center (EHRC), Machine Intelligence and Robotics Center (MINRO), Open source software platform (MOSIP) and Center of IT and Policy (CITAPP). The research labs are primarily driven by faculty members of Institute and students working with them. IIITB has always supported faculty with research funding to develop and maintain lab infrastructure. These include research labs such as Web Science lab, Graphics Visualization lab, Surgical and Assistive Robotics lab, Advanced Networking, Drone development lab, Open source software engineering lab, Embedded systems and Electronics lab, and CITAPP.

IIITB also has demo space for showcasing on-going or live projects to the visitors, whenever scheduled. The research lab space is co-funded by various funding agencies including companies such as IBM, Intel, HP, and Government organizations such as Government of Karnataka – IT-BT, and Health department, Government of India – MEITY, SERB, DST, MSJE, and others. **Overall, around 250 research students work in the ten research labs** continuously and contribute towards the success and accolades for the Institute. On an average, **60 publications per academic year** are produced by students in the top conferences and journals using the resources installed at IIITB Labs.

In addition to our students, **around 30 summer interns** from various parts of the country access the lab for a three-month duration and enhance their academic profile. IIITB has also open the lab doors for startup companies to work in the lab whenever needed, and **4-5 companies have been regularly utilizing the resources.**

As a lab policy, IIITB students have access to the lab for around 20 hours in a day, which allows students to work on a project or experiments at their convenience, which remains the hallmark of the institute and Director's vision to have a student friendly learning atmosphere at any cost.





Visit of Shri. Priyanka Mary Francis, IAS, Director, ITBT on 27th June, 2019



Visit of NASSCOM delegation on 10th September, 2019



Students visit from Engineering college of Tamil Nadu on 28th February, 2020



Students visit from MIIT on 18th December, 2019

12. People



January 5, 2011

Visit by Turing award winner
Prof. Richard Karp, UC Berkeley, USA



Faculty



**Prof. Amit
Chattopadhyay**

Ph.D. (University of Groningen)



Prof. Amit Prakash

FPM (IIM Bangalore)



Prof. Ashish Choudhury

Ph.D. (IIT Madras)



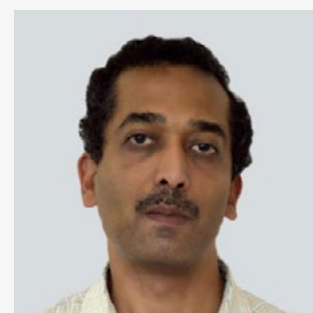
Prof. Arti Dilip Yardi

Ph.D. (IIT Bombay)



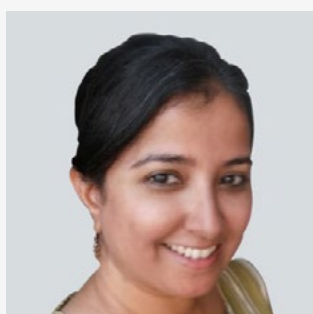
Prof. Balaji Parthasarathy

Ph.D. (University of California
Berkeley)



Prof. Balakrishnan Ashok

Ph.D. (University of
Massachusetts Amherst)



Prof. Bidisha Chaudhuri

Ph.D. (Universität Heidelberg)



**Prof. Brijesh Kumar
Mishra**

Ph.D. (Indian Institute of
Technology, Kanpur)



**Prof. Chandrashekar
Ramanathan**

Ph.D. (Mississippi State
University)

FACULTY



Prof. Chetan Parikh
Ph.D. (University of Florida)



Prof. Dinesh Babu Jayagopi
Ph.D. (École Polytechnique
Fédérale de Lausanne)



Prof. Debabrata Das
Ph.D. (IIT Kharagpur)



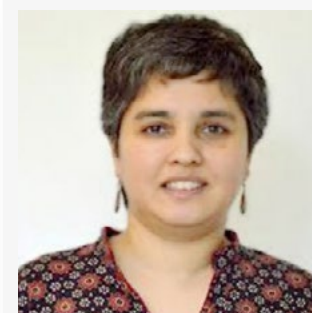
Prof. G N Srinivasa Prasanna
Ph.D. (Massachusetts Institute of
Technology)



Prof. G Srinivasaraghavan
Ph.D. (IIT Kanpur)



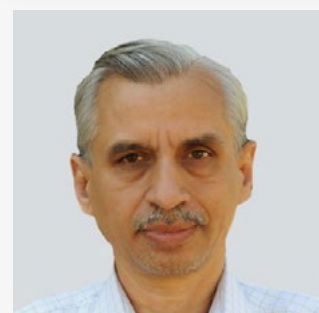
Prof. Jyotsna Bapati
Ph.D. (Pennsylvania State
University)



Prof. Janaki Srinivasan
Ph.D. (University of California
Berkeley)



Prof. Jaya Sreevalsan Nair
Ph.D. (University of California
Davis)



Prof. K V Dinesha
Ph.D. (IIT Bombay)



Prof. JayPrakash L T
Ph.D. (Indian Institute of
Technology, Kharagpur)



Prof. Madhav Rao
Ph.D. (University of Alabama)



Prof. Manisha Kulkarni
Ph.D. (IMSc Chennai)



Prof Meenakshi D'Souza
Ph.D (IMSc Chennai)



Prof Nanditha Rao
Ph.D. (IIT Bombay)



Prof Pradeesha Ashok
Ph.D. (IISc Bangalore)



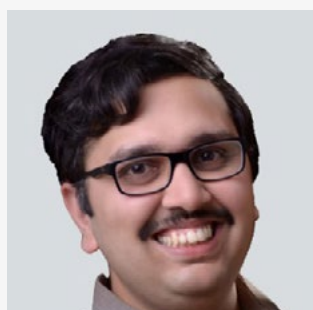
Prof. Neelam Sinha
Ph.D. (IISc Bangalore)



Prof. Priyanka Das
Ph.D. (IISc Bangalore)



Prof. Preeti Mudliar
Ph.D. (University of Texas at Austin)



Prof Srinivas Vivek
Ph.D. (University of Luxembourg)



Prof. S Rajagopalan
Ph.D. (IIT Kanpur)



Prof. Sachit Rao
Ph.D. (Ohio State University)



Prof. Shiva Kumar Malapaka
Ph.D. (Universitat Bayreuth)



Prof. Shrisha Rao
Ph.D. (University of Iowa)



Prof. Srinath Srinivasa
Ph.D. (Brandenburg Technical University Cottbus)

Domain-wise Faculty Members

1. Computer Science Faculty Members

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

2. Data Sciences Faculty Members

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

3. VLSI Systems Faculty Members

- Prof. Chetan Parikh
- Prof. Madhav Rao
- Prof. Nanditha Rao
- Prof. Sachit Rao
- Prof. Subajit Sen
- Prof. Subir K. Roy

4. Information Technology & Society Faculty Members

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

5. Mathematics & Basic Sciences Faculty Members

- Chemistry: Prof. Brijesh Kumar Mishra
- Mathematics: Prof. Manisha Kulkarni
- Physics: Prof. Balakrishnan Ashok, Prof. Shiva Kumar Malapaka

6. Networking, Communication & Signal Processing faculty members

- Prof. Debabrata Das
- Prof. Dinesh Babu Jayagopi
- Prof. V Ramasubramanian
- Prof. Jyotsna Bapat
- Prof. Neelam Sinha
- Prof. Sachit Rao
- Prof. Tricha Anjali
- Prof. Priyanka Das
- Prof. Vinod Veera Reddy
- Prof. Arti Yardi

7. Software Engineering Faculty Members

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

Key Officials



Prof. S Sadagopan

Director, IIITB



Cmde SR Sridhar (Retd)

Registrar, IIITB - Secretary to the Board



Prof. Jaya Sreevalsan Nair

Associate Professor & Warden (Women's Hostel)



Prof. Jyotsna Bapat

Professor & Dean (Faculty)



Prof. Chandrashekar Ramanathan

Professor & Dean (Academics)



Prof. Srinath Srinivasa

Professor & Dean (R&D)



Prof. S S Prabhu

Faculty Advisor



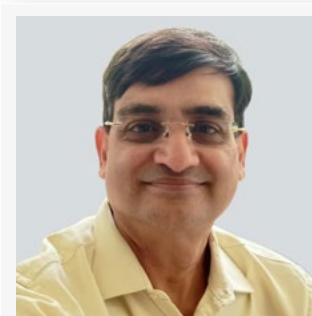
M Pitchiah

Advisor (Finance)



D V Jagadish

Chief Executive Officer (Outreach)



Y S Narayan

Chief Operations Officer (Outreach)



J P Patil

Chief Administration Officer



M K Durai Murugan

IT and Data Centre Manager

KEY OFFICIALS



Prof. Tricha Anjali
Associate Professor & Associate
Dean (Continuing Professional
Education)



Prof. Sachit Rao
Assistant Professor Faculty-in-
charge Student Exchange



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



Prof. T K Srikanth
Professor & Faculty-in-charge
Computing



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



Prof. Madhav Rao
Associate Professor, iM.Tech
Coordinator and Faculty in-
charge-Labs



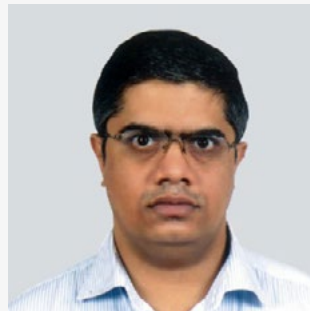
Prof. V N Muralidhara
Associate Professor, M.Tech.
& S.M.Tech. Programme
Coordinator



Prof. Manisha Kulkarni
Associate Professor & M.S. Ph.D.
Programme Coordinator



Prof. G Srinivasaraghavan
Professor & Faculty-in-charge
Internships & Placements



**Prof. Shiva Kumar
Malapaka**
Assistant Professor & Warden
(Men's Hostel)

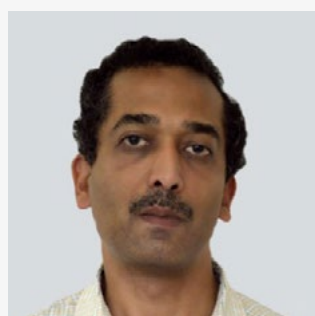


Prof. Uttam Kumar
Assistant Professor, Warden (Men's
Hostel) & Infosys Foundation Career
Development Chair Professor



Prof. Nanditha Rao
Assistant Professor & Warden
(Women's Hostel)

KEY OFFICIALS



Prof. Balakrishnan Ashok
Associate Professor & Faculty-
in-charge Library



Cynthia DMello
Staff Officer, Deans office



Rama Devi S
Librarian and Manager -
Information Services



Ramesh Sundararaman
CEO, Innovation Centre



Karthik Kittu
Chief Innovation Officer



Cdr JV Prasad (Retd.)
Executive Officer (R&D)

Research Advisory Committee (RAC) Members



Dr. P Satish Chandra



Prof. P Balaram

Ombudsman

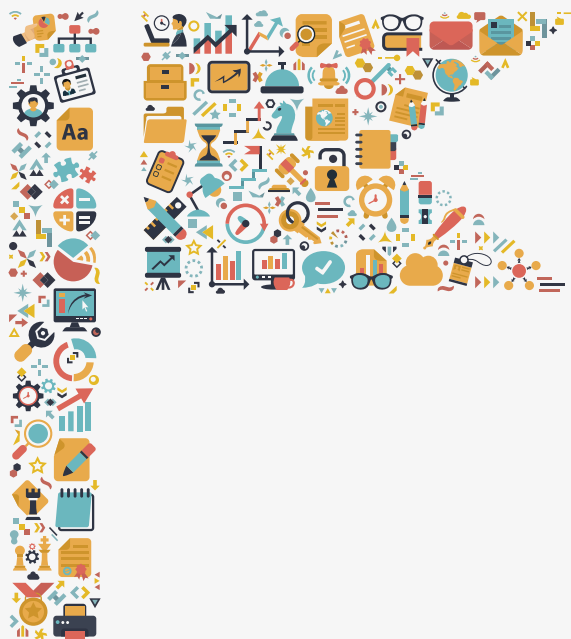


Dr. K.N. Balasubramanya Murthy,
Vice Chancellor of Dayananda
Sagar University, Bangalore, and
Chairman, Board for IT Education
Standards (BITES) took over as
Ombudsman of IIITB on February
26, 2020.

Industry Advisory Board

| # | Name | Designation | Organisation |
|----|---------------------------------|--|---|
| 1 | Ajay Nanavati | Chairman | Syndicate Bank |
| 2 | Alok Nanda | CTO GE South Asia & CEO GE India | GE Technology Center |
| 3 | Amit Sharma | Vice President & General Manager - Operations, WW GBS - Cloud Appl Innovation & Global Delivery | IBM |
| 4 | Arnob Roy | Co-founder | Tejas Networks |
| 5 | Binu Raj | Partner Director | Microsoft |
| 6 | Dr. Jai Ganesh | VP & Head, Mphasis Next Labs | Mphasis |
| 7 | Dr. Sudhir Patnaik | Vice President, Engineering and Site Lead | Gibraltar India Development Center |
| 8 | Ganesh K | Founder | Growthstory |
| 9 | Gerd Hoefner | MD & President | Siemens Healthineers |
| 10 | Gilbert Joseph | Head of Corporate Affairs | Huawei Technologies India Pvt. Ltd |
| 11 | Gunjan Patel | Head CSR, Asia Pacific Japan & India | SAP |
| 12 | Guru Ganesan | Sr. Vice President, President & MD | ARM |
| 13 | Johnson Jose | Sr. Director | Cisco Systems |
| 14 | K Vaitheeswaran | Founder | E-commerce pioneer |
| 15 | Krishnakumar N | Chairman | Mindtree |
| 16 | M. N. Vidyashankar (IAS - Rtd.) | | M. N. Vidyashankar (IAS - Rtd.) |
| 17 | Naresh Shah | Former President, India R&D | HP India Software Operation Ltd |
| 18 | Nataraj Kuntagod | Principal Director - R&D | Accenture Labs |
| 19 | Omprakash Subbarao | VP | Sonata Software |
| 20 | Pavankumar C V | Vice President for South Asia | Altair |
| 21 | Pradip Dutta | MD | Synopsys |
| 22 | Prof. Kumar | | IISC |
| 23 | Ravi Krishnan | Managing Director | Goldman Sachs |
| 24 | Ravi Madipadaga | Head, CT Research - India, | Siemens Technology India |
| 25 | Rostow Ramanan | CEO | Factini Advisors LLP |
| 26 | Sandeep Gupta | Joint GM | ICICI Bank |
| 27 | Sanjay Nayak | CEO & MD | Tejas Networks |
| 28 | Sankalp Saxena | Deep Tech Club - Board Member & Mentor | NASSCOM |
| 29 | Sanket Atal | VP, MD | Intuit, India |
| 30 | Sudhir Subbaraman | Business Unit Leader & SVP - APAC Communications, Media and Enterprise Services & India CSR incharge | CGI India |
| 31 | Sumeet Verma | Director, Strategy | Intel |
| 32 | Sundar Subramanian | President - Global Delivery | Mphasis |
| 33 | V Hande | Head - Research Group -Simulation & Sol. | Siemens Technology India |
| 34 | Vijay Ratnaparkhe | President & Managing Director | Robert Bosch Engineering and Business Solutions Private Limited |
| 35 | Vijendran | Vice President - HR | Robert Bosch Engineering and Business Solutions Private Limited |
| 36 | Vinay Shenoy | MD | Infineon Technologies (India) |
| 37 | Vishal Dhupar | MD | Nvidia |

13. | Publications



February 11, 2004

World Economic Forum
Founder Klaus Schwab visits



Conference Publications

Jayati Deshmukh, Annervaz KM and Subhashis Sengupta, "A Sequence Modeling Approach for Structured Data Extraction from Unstructured Text," in Proc. 5th Workshop on Semantic Deep Learning (SemDeep-5), Macau, China, August 12, 2019, 10p.

doi: <https://www.aclweb.org/anthology/W19-5809>

Sachit Rao, "Design of Terminal Sliding Modes in the presence of Control Bounds," in Proc. IEEE Conference on Control Technology and Applications (CCTA), Hong Kong, China, August 19-21, 2019, pp. 970-975.

doi: doi.org/10.1109/CCTA.2019.8920510

Gopika Gopan K, Neelam Sinha and Dinesh Babu Jayagopi, "Alcoholic EEG Analysis using Riemann Geometry based framework," in Proc. 27th European Signal Processing Conference (EUSIPCO), A Coruna, Spain, September 2-6, 2019, pp. 1-5.

doi: doi.org/10.23919/EUSIPCO.2019.8902506

Pranav Kedia, Pranav Aggarwal and Madhav Rao, "Design and development of an autonomous in-seat passenger state identification in a modern vigilance enabled public transportation system," in Proc. IEEE International Conference of Vehicular Electronics and Safety (ICVES), Cairo, Egypt, September 4-6, 2019, pp. 1-6.

doi: doi.org/10.1109/ICVES.2019.8906349

Reddy Rani Vangimalla and Jaya Sreevalsan-Nair, "RadTrix: A Composite Hybrid Visualization for Unbalanced Bipartite Graphs in Biological Datasets," in Proc. Eurographics Workshop on Visual Computing for Biology and Medicine, Brno, Czech Republic, September 4-6 2019.

doi: <https://conferences.eg.org/vcbm2019/wp-content/uploads/sites/2/2019/09/05.pdf>

Varsha P. Suresh, Sujit Kumar Chakrabarti, Raoul Jetley and Devina Mohan, "Handling Backtracking for Symbolic Testing of Embedded Software," in Proc. 24th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Zaragoza, Spain, September 10-13, 2019, pp. 1445-1448.

doi: doi.org/10.1109/ETFA.2019.8869097

Kaajal Gupta, Anzar Zulfiqar, Pushpa Ramu, Tilak Purohit and V. Ramasubramanian, "Detection of emotional states of OCD patients in an exposure-response prevention therapy scenario," in Proc. Workshop on Speech, Music and Mind 2019, SMM19, Vienna, September 14, 2019, pp. 21-25.

doi: doi.org/10.21437/SMM.2019-5

Chaitali Diwan, Srinath Srinivasa and Prasad Ram, "Automatic Generation of Coherent Learning Pathways for Open Educational Resources," in Proc. European Conference on Technology Enhanced Learning (EC-TEL), Delft, The Netherlands, September 16-19, 2019, pp. 321-324.

doi: doi.org/10.1007/978-3-030-29736-7_24

Rachna Shriwas, Prasun Joshi, Vandana M. Ladwani and V. Ramasubramanian, "Multi-modal Associative Storage and Retrieval using Hopfield Auto-associative Memory Network," in Proc. 28th International Conference on Artificial Neural Networks, Munich, Germany, September 17-19, 2019, pp 57-75.

doi: doi.org/10.1007/978-3-030-30487-4_5

P. Surya, R. Chinmaye, Subhajit Sen, Chetan Parikh, Hari Shankar Gupta and Rinku Agrawal, "Calibration Techniques for Pipelined ADCs," in Proc. 4th National Conference of Indian Society of Systems for Science and Engineering, Ahmedabad, September 26-27, 2019.

PUBLICATIONS

GVK Sasirekha, T. Adhisaya, P. Aswini, Jyotsna Bapat and Debabrata Das, "Challenges in the Design of an IoT Testbed," in Proc. 2nd International Conference on Intelligent Communication and Computational Techniques (ICCT), Jaipur, India, September 28-29, 2019, pp. 14-19.
doi: doi.org/10.1109/ICCT46177.2019.8969009

Abhishek Singh, Rekha Pai, Deepak D'Souza and Meenakshi D'Souza, "Static Analysis for Detecting High-Level Races in RTOS Kernels," in Proc. International Symposium on Formal Methods, (FM 2019), Porto, Portugal, October 7-11, 2019, pp. 337-353.
doi: doi.org/10.1007/978-3-030-30942-8_21

Debanjali Bhattacharya, Neelam Sinha and Jitender Saini, "Detection of chromosomal arms 1p/19q codeletion in low graded glioma using probability distribution of MRI volume heterogeneity," in Proc. IEEE Region 10 International Conference (TENCON 2019), Kerala, India, October 17-20, 2019. pp. 2695 - 2699.
doi: doi.org/10.1109/TENCON.2019.8929255

Debanjali Bhattacharya, Sunil Kumar Vengalil, Neelam Sinha, Jitender Saini, Pramod Pal and M Sandhya, "Structural MRI based texture analysis of corpus callosum in patients with Progressive Supranuclear Palsy," in Proc. IEEE Region 10 International Conference (TENCON 2019), Kerala, India, October 17-20, 2019, pp. 441-446.
doi: doi.org/10.1109/TENCON.2019.8929403

J. Siva Ramakrishna and Hariharan Ramasangu, "Estimation of Functional Connectivity in Cognitive Impaired Brain Using Non-Homogeneous Dynamic Bayesian Model," in Proc. IEEE Region 10 International Conference (TENCON 2019), Kerala, India, October 17-20, 2019, pp. 2154-2159.
doi: doi.org/10.1109/TENCON.2019.8929396

Ananta Kumar Das, Shikhar Yadav and Subhasish Dhal, "Detecting Code Smells using Deep Learning," in Proc. IEEE Region 10 Conference (TENCON), TENCON 2019, Kochi, India, October 17-20, 2019, pp. 2081-2086.
doi: doi.org/10.1109/TENCON.2019.8929628

Ajay Ramesh, Nithin Raj, T. K. Srikanth and Madhav Rao, "Design of a Tactile Audio Gallery for Visually Impaired Students," in Proc. IEEE Sensors 2019 Conference, Montreal, Canada, October 27-30, 2019, 4p.
doi: doi.org/10.1109/SENSORS43011.2019.8956886

Nithin Raj, Ajay Ramesh, T. K. Srikanth and Madhav Rao, "Live Demonstration: a Tactile Audio Gallery for Visually Impaired Students," in Proc. IEEE Sensors 2019 Conference, Montreal, Canada, October 27-30, 2019. 1p.
doi: doi.org/10.1109/SENSORS43011.2019.8956527

Harsh Chaudhari, Ashish Choudhury, Arpita Patra and Ajith Suresh, "ASTRA: High Throughput 3PC over Rings with Application to Secure Prediction," in Proc. ACM SIGSAC Conference on Cloud Computing Security Workshop (CCSW'19), London; United Kingdom, November 11-15, 2019, pp. 81-92.
doi: doi.org/10.1145/3338466.3358922

Anushka Chandrababu, Abhilasha Aswal and G. N. S. Prasanna, "Relational algebraic approaches to decision making under uncertainty," in Proc. 23rd International Congress on Modelling and Simulation (MODSIM2019), Canberra; Australia, December 1-6, 2019, pp.172-178.
doi: doi.org/10.36334/modsim.2019.B1.chandrababu

Tarun Dutt, G. N. Srinivasa Prasanna, Tathagato Rai Dastidar and Ananth Shreekumar, "Towards Artifact Rejection in Microscopic Urinalysis," in Proc. 23rd Conference on Neural Information Processing Systems (NeurIPS 2019), Vancouver; Canada, December 8-14, 2019, 4p.

GVK Sasirekha, D. Sai Venkatesh, T. Adhisaya, P. Aswini, Jyotsna Bapat and Debabrata Das, "Robotic Extension to IoT Testbed for Indoor Environment Supervision," in Proc. 3rd International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, December 12 - 14, 2019, pp. 29-35.

doi: doi.org/10.1109/I-SMAC47947.2019.9032498

Vamsi Krishna Guduru, Richa Gupta, Bhavani Lakshmi Polareddy, M. Anish Unnikrishnan, Chetan Parikh and Subhajit Sen, "Wake-up circuit for PAM4 receiver," in Proc. 9th International Symposium on Embedded Computing and System Design (ISED), Kollam, India, December 13 - 14, 2019, pp. 1-6.

doi: doi.org/10.1109/ISED48680.2019.9096230

Sai Venkatesh Dasari, GVK Sasirekha, Jyotsna Bapat and Debabrata Das, "IoT Testbed for Thermal Profiling of a Smart Building," in Proc. IEEE 16th India Council International Conference (INDICON), Rajkot, India, December 13 - 15, 2019, pp. 1-4.

doi: doi.org/10.1109/INDICON47234.2019.9030343

Kiran Praveen, Anshul Gupta, Akshara Soman and Sriram Ganapathy, "Second Language transfer learning in humans and machines using image supervision," in Proc. IEEE Automatic Speech Recognition and Understanding Workshop, Sentosa, Singapore, December 14-18, 2019, pp. 1040-1047.

doi: doi.org/10.1109/ASRU46091.2019.9004011

Shyam Murthy and Srinivas Vivek, "Cryptanalysis of a Protocol for Efficient Sorting on SHE Encrypted Data," in Proc. 17th IMA International Conference, IMACC 2019, Oxford, UK, December 16-18, 2019, pp. 278-294.

doi: doi.org/10.1007/978-3-030-35199-1_14

Dibakar Das, Jyotsna Bapat and Debabrata Das, "SINR based Uplink Sub-band Clustering Mechanism for Differentiated Services in NOMA," in Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Goa, India, December 16 - 19, 2019, 5p.

doi: doi.org/10.1109/ANTS47819.2019.9118067

Sharvari Ravindran, Saptarshi Chaudhuri, Jyotsna Bapat and Debabrata Das, "Required Delay-based Network Sub-Slices Resource Optimization for 5G Radio Access Network," in Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Goa, India, December 16 - 19, 2019, 5p.

doi: doi.org/10.1109/ANTS47819.2019.9118151

Dandra Prasad Basavaraj, Prashant K. Wali, Vijay Ganesh Surisetty, Seshadri Elluru, Tushar Vrind and Debabrata Das, "Throughput and Service Enhancing Network Selection Algorithm for Dual Registration in 5G Standalone Architecture," in Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Goa, India, December 16 - 19, 2019, 6p.

doi: doi.org/10.1109/ANTS47819.2019.9118116

K. E. Manjunath, K. M. Srinivasa Raghavan, K. Sreenivasa Rao, Dinesh Babu Jayagopi and V. Ramasubramanian, "Multilingual Phone Recognition: Comparison of Traditional versus Common Multilingual phone-set approaches and applications in Code-Switching," in Proc. International Symposium on Signal Processing and Intelligent Recognition Systems, Trivandrum, India, December 18 - 21, 2019, pp.75-86.

doi: doi.org/10.1007/978-981-15-4828-4_7

PUBLICATIONS

Sachit Rao, "Sliding mode guidance with terminal angle and lax constraints," in Proc. 6th Indian Control Conference (ICC), Hyderabad, India, December 18-20, 2019, pp. 373-378.
doi: doi.org/10.1109/ICC47138.2019.9123236

Kumud Sinha, Tushar Vrind, Lalit Pathak and Debabrata Das, "Novel System Design for Reducing Cost and Power Consumption in a Multi-SIM User Equipment," in Proc. 17th Annual Consumer Communications and Networking Conference (CCNC 2020), Las Vegas; USA, January 10-13, 2020, 2p.
doi: doi.org/10.1109/CCNC46108.2020.9045345

Kavin Kumar Thangadorai, Raj kumar Saranappa, Abdus Sarif Ahmed, Kumar Murugesan, Manbir Singh Soni, Radhika Mundra, Manjunath Neelappa Sataraddi, Srihari Sriram, Varun Singh, B. Shashi Kumar, Mayuresh Madhukar Patil and Debabrata Das, "Intelligent and Adaptive Machine Learning-based Algorithm for Power Saving in Mobile Hotspot," in Proc. 17th Annual Consumer Communications and Networking Conference (CCNC 2020), Las Vegas, USA, January 10-13, 2020, 6p.
doi: doi.org/10.1109/CCNC46108.2020.9045535

Yogalakshmi Jayabal and S. Rajagopalan, "An analysis of Bus Ticket sales in East Bangalore," in Proc. 1st International Conference on Urban Data Science, Chennai, India, January 20-21, 2020, 14p.
doi: <http://ceur-ws.org/Vol-2557/paper-03.pdf>

Navitha Parthasarathy and Sachit Rao, "Is Public Transport spatially and temporally equitable? A case-study in South-East Bangalore," in Proc. 1st International Conference on Urban Data Science, Chennai, India, January 20-21, 2020, 10p.
doi: <http://ceur-ws.org/Vol-2557/paper-05.pdf>

Syam Sidhardhan, Debabrata Das and Kyungmin Park, "Intelligent human presence detection and identification," in Proc. International Conference on Computer Communication and Informatics (ICCCI 2020), Coimbatore; India, January 22-24, 2020, 6p.
doi: doi.org/10.1109/ICCCI48352.2020.9104178

Nanditha P. Rao and Madhav P. Desai, "Quantification of the extent of Multiple Node Charge Collection in 14 nm Bulk FinFETs," in Proc. International conference on Modelling, Simulation and Intelligent Computing (MoSICom), Dubai; UAE, January 29-31, 2020, pp.111-118.
doi: doi.org/10.1007/978-981-15-4775-1_13

Shreya Jayateerth Joshi, Prashant Mata and Nanditha P. Rao, "A Dynamic Base Data Compression technique for the Last-Level Cache," in Proc. International conference on Modelling, Simulation and Intelligent Computing (MoSICom), Dubai; UAE, January 29-31, 2020, pp.155-163.
doi: doi.org/10.1007/978-981-15-4775-1_17

Pradeesha Ashok, Rathin Bhargava, Naman Gupta, Mohammad Khalid and Dolly Yadav, "Minimum Conflict Free Colouring Parameterized by Treewidth," in Proc. Conference on Algorithms and Discrete Applied Mathematics CALDAM 2020, Hyderabad; India, February 13-15, 2020, pp. 439-450.
doi: doi.org/10.1007/978-3-030-39219-2_35

Priyanka Das, "Outage performance of cognitive relay networks with optimal relay and antenna selection," in Proc. 26th National Conference on Communications (NCC 2020), Kharagpur; India, February 21-23, 2020, 6p.
doi: doi.org/10.1109/NCC48643.2020.9056057

Priyanka Das, "Average rate of optimal incremental relaying with selection: Analysis and insights," in Proc. 26th National Conference on Communications (NCC 2020), Kharagpur; India, February 21-23, 2020, 6p.

doi: doi.org/10.1109/NCC48643.2020.9056051

Harsh Chaudhari, Rahul Rachuri and Ajith Suresh, "Trident: Efficient 4PC Framework for Privacy Preserving Machine Learning," in Proc. Network and Distributed Systems Security (NDSS) Symposium, San Diego; USA, February 23-26, 2020, 18p.

doi: dx.doi.org/10.14722/ndss.2020.23005

Nithya Ganesan, Vivek and B. Thangaraju, "Pox controller based qos evaluation for 5G systems-network slicing," in Proc. 7th International Conference on Signal Processing and Integrated Networks, SPIN 2020, Noida; India, February 27-28, 2020, pp. pp. 394-398.

doi: doi.org/10.1109/SPIN48934.2020.9071353

Sujit Kumar Chakrabarti and Karthika Venkatesan, "StaBL: Statecharts with Local Variables," in Proc. 13th Innovations in Software Engineering Conference, Jabalpur; Madhya Pradesh, February 27-29, 2020, 10p.

doi: doi.org/10.1145/3385032.3385040

Karishma and Shrisha Rao, "A trusted agent strategy in decentralized network environments," in Proc. 28th EuroMicro International Conference on Parallel, Distributed and Network-Based Processing (PDP 2020), Västerås; Sweden, March 11-13, 2020, pp. 433-440.

doi: doi.org/10.1109/PDP50117.2020.00073

Pradyumna Taduri, Srravya Chandhiramowuli and Amit Prakash, "ICT and Interactivity in the Classroom: A Case Study of an ICT Intervention in Indian Rural Public Schools," in Proc. International Development Informatics Association Conference (IDIA 2020), Macau; China, March 25-27, 2020, pp. 17-30.

doi: doi.org/10.1007/978-3-030-52014-4_2

Parthiban Annamalai, Jyotsna Bapat and Debabrata Das, "Doubling Spectral Efficiency independent of Cell sizes in 5G using Hybrid IBFD Cellular Network," in Proc. IEEE Wireless Communications and Networking Conference Workshops (WCNCW), Seoul; South Korea, April 6-9, 2020, 7p.

doi: [doi.org/10.1109/](https://doi.org/10.1109/WCNCW48565.2020.9124895)

[WCNCW48565.2020.9124895](https://doi.org/10.1109/WCNCW48565.2020.9124895)

Preeti Mudliar, "Whither Humane-Computer Interaction? Adult and Child Value conflicts in the Biometric Fingerprinting for Food," in Proc. CHI Conference on Human Factors in Computing Systems, Honolulu; USA, April 25-29, 2020, 12p.

doi: doi.org/10.1145/3313831.3376564

Saloni Laddha and Shrisha Rao, "Dynamic interactions by strong influencers in Social Networks using Opinion propagation," in Proc. Adaptive and Learning Agents Workshop, Auckland, New Zealand, May 9-10, 2020, 9p.

doi: ala2020.vub.ac.be/papers/ALA2020_paper_9.pdf

Vaibhav Bajaj and Sachit Rao, "Autonomous Shape formation and morphing in a Dynamic Environment by a Swarm of Robots: Extended abstract," in Proc. 19th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS 2020), Auckland, New Zealand, May 9-13, 2020, pp.1765-1767.

doi: [dl.acm.org/doi/](https://dl.acm.org/doi/pdf/10.5555/3398761.3398975)

[pdf/10.5555/3398761.3398975](https://dl.acm.org/doi/pdf/10.5555/3398761.3398975)

Nanda Kishore Sreenivas and Shrisha Rao, "Analyzing the effects of Memory Biases and Mood disorders on Social Performance," in Proc. 19th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS 2020), Auckland, New Zealand, May 9-13, 2020, pp.2017-2019.

doi: [dl.acm.org/doi/](https://dl.acm.org/doi/pdf/10.5555/3398761.3399060)

[pdf/10.5555/3398761.3399060](https://dl.acm.org/doi/pdf/10.5555/3398761.3399060)

Sharvari Ravindran, Saptarshi Chaudhuri, Jyotsna Bapat and Debabrata Das, "EESO: Energy Efficient System-resource Optimization of Multi-Sub-Slice-Connected User in 5G RAN," in Proc. IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore; India, July 2-4, 2020, 2020, pp. 1-6.

doi: [doi.org/ 10.1109/](https://doi.org/10.1109/CONECCT50063.2020.9198455)

[CONECCT50063.2020.9198455](https://doi.org/10.1109/CONECCT50063.2020.9198455)

Dinakar Reddy Yammanuru, Katyayani Seshakumar Kavuluri and Debabrata Das, "Novel Algorithm for Drastic Reduction of N2 Signalling in 5G and Beyond" in Proc. IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore; India, July 2-4, 2020, pp. 1-5.

doi: [doi.org/ 10.1109/](https://doi.org/10.1109/CONECCT50063.2020.9198504)

[CONECCT50063.2020.9198504](https://doi.org/10.1109/CONECCT50063.2020.9198504)

Surendra Pandey, Raja Moses, Manoj Kumar Eda and Debabrata Das, "Efficient Reordering-Reassembly PDCP and RLC Window Management Algorithm in 5G and Beyond," in Proc. IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore; India, July 2-4, 2020, pp. 1-6.

doi: [doi.org/ 10.1109/](https://doi.org/10.1109/CONECCT50063.2020.9198680)

[CONECCT50063.2020.9198680](https://doi.org/10.1109/CONECCT50063.2020.9198680)

Raja Moses Manoj Kumar Eda and Debabrata Das, "Efficient Technique to Reduce the Retransmission Latency of Packets from RLC layer in Carrier Aggregated 5G RAN," in Proc. IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore; India, July 2-4, 2020, pp. 1-5.

doi: [doi.org/ 10.1109/](https://doi.org/10.1109/CONECCT50063.2020.9198382)

[CONECCT50063.2020.9198382](https://doi.org/10.1109/CONECCT50063.2020.9198382)

Nishant Nishant, Kailash Kumar Jha, Alok Kumar Jangid and Debabrata Das, "Efficient Protocol for Reliable Mobile Origination Connection In URLLC Devices," in Proc. IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore; India, July 2-4, 2020, pp. 1-6.

doi: [doi.org/ 10.1109/](https://doi.org/10.1109/CONECCT50063.2020.9198532)

[CONECCT50063.2020.9198532](https://doi.org/10.1109/CONECCT50063.2020.9198532)

Reena Mangain and Jyotsna Bapat, "Comparative Analysis of Geometry of Receiver Placement in Multistatic Radar Configuration," in Proc. IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, India, July 2-4, 2020, pp. 1-6.

doi: [doi.org/10.1109/](https://doi.org/10.1109/CONECCT50063.2020.9198381)

[CONECCT50063.2020.9198381](https://doi.org/10.1109/CONECCT50063.2020.9198381)

Aparna Lalingkar, Prakhar Mishra, Sridhar Mandyam, Jagatdeep Pattanaik and Srinath Srinivasa, "Building a Model for finding Quality of Affirmation in a Discussion Forum," in Proc. 20th International Conference on Advanced Learning Technologies (ICALT), Tartu, Estonia, July 6-9, 2020, pp. 122-126.

doi: doi.org/10.1109/ICALT49669.2020.00043

Aditya Hegde, Vibhav Agarwal and Shrisha Rao, "Ethics, Prosperity, and Society: Moral evaluation using Virtue Ethics and Utilitarianism," in Proc. 29th International Joint Conference on Artificial Intelligence (IJCAI-20), Yokohama, Japan, July 14-17, 2020, pp.167-174.

doi: [https://www.ijcai.org/](https://www.ijcai.org/Proceedings/2020/0024.pdf)

[Proceedings/2020/0024.pdf](https://www.ijcai.org/Proceedings/2020/0024.pdf)

Sriram Marisetty, Pavan Kumar Pothula, Pon Deepika, C. K. Vinay, Vikas Vazhayil and Madhav Rao, "System Design of an Automated Drilling Device for Neurosurgical Applications," in Proc. 5th Asia-Pacific Conference on Intelligent Robot Systems (ACIRS), Singapore; July 17-19, 2020, pp. 52-58.

doi: doi.org/10.1109/ACIRS49895.2020.9162612

PUBLICATIONS

Shreekantha Nadig, Sumit Chakraborty, Anuj Shah, Chaitanay Sharma, V. Ramasubramanian and Sachit Rao, "Jointly learning to align and transcribe using attention-based alignment and uncertainty-to-weight losses," in Proc. International Conference on Signal Processing and Communication, Bengaluru; India, July 19-24, 2020, 5p.

doi: [doi.org/10.1109/](https://doi.org/10.1109/SPCOM50965.2020.9179519)

[SPCOM50965.2020.9179519](https://doi.org/10.1109/SPCOM50965.2020.9179519)

Tilak Purohit and V. Ramasubramanian, "Component-specific temporal decomposition: application to enhanced speech coding and co-articulation analysis," in Proc. International Conference on Signal Processing and Communication, Bengaluru; India, July 19-24, 2020, 5p.

doi: [doi.org/10.1109/](https://doi.org/10.1109/SPCOM50965.2020.9179598)

[SPCOM50965.2020.9179598](https://doi.org/10.1109/SPCOM50965.2020.9179598)

Ammu, R and Neelam Sinha, "Small Segment Emphasized Performance Evaluation Metric for Medical Images," in Proc. International Conference on Signal Processing and Communication, Bengaluru; India, July 19-24, 2020, 5p.

doi: [doi.org/10.1109/](https://doi.org/10.1109/SPCOM50965.2020.9179617)

[SPCOM50965.2020.9179617](https://doi.org/10.1109/SPCOM50965.2020.9179617)

T. Vijaya Kumar, Shunmuga Sundar R, Tilak Purohit and V. Ramasubramanian, "End-to-end audio-scene classification from raw audio: Multi time-frequency resolution CNN architecture for efficient representation learning," in Proc. International Conference on Signal Processing and Communication, Bengaluru; India, July 19-24, 2020, 5p.

doi: [doi.org/10.1109/](https://doi.org/10.1109/SPCOM50965.2020.9179600)

[SPCOM50965.2020.9179600](https://doi.org/10.1109/SPCOM50965.2020.9179600)

Shreekantha Nadig, V. Ramasubramanian and Sachit Rao, "Multi-target hybrid CTC-Attentional Decoder for joint phoneme-grapheme recognition," in Proc. International Conference

on Signal Processing and Communication, Bengaluru; India, July 19-24, 2020, 5p.

doi: [doi.org/10.1109/](https://doi.org/10.1109/SPCOM50965.2020.9179603)

[SPCOM50965.2020.9179603](https://doi.org/10.1109/SPCOM50965.2020.9179603)

Abhijith Madan, Ayush Khopkar, Shreekantha Nadig, K. M. Srinivasa Raghavan, Dhanya Eledath and V. Ramasubramanian, "Semi-supervised learning for acoustic model retraining: Handling speech data with noisy transcript," in Proc. International Conference on Signal Processing and Communication, Bengaluru; India, July 19-24, 2020, 5p.

doi: [doi.org/10.1109/](https://doi.org/10.1109/SPCOM50965.2020.9179517)

[SPCOM50965.2020.9179517](https://doi.org/10.1109/SPCOM50965.2020.9179517)

Reddy Rani Vangimalla and Jaya Sreevalsan-Nair, "A Multiscale Consensus method using Factor Analysis to Extract Modular Regions in the Functional Brain Network," in Proc. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Montreal; Canada, July 20-24, 2020.

doi: [doi.org/10.1109/](https://doi.org/10.1109/EMBC44109.2020.9175622)

[EMBC44109.2020.9175622](https://doi.org/10.1109/EMBC44109.2020.9175622)

K. Vinay, Vikas Vazhayil and Madhav Rao, "Design of a real time portable low-cost multi-channel surface electromyography system to aid neuromuscular disorder and post stroke rehabilitation patients," in Proc. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Montreal; Canada, July 20-24, 2020, pp. 4138-4142.

doi: [doi.org/10.1109/](https://doi.org/10.1109/EMBC44109.2020.9176058)

[EMBC44109.2020.9176058](https://doi.org/10.1109/EMBC44109.2020.9176058)

Vinay Chandrasekhar, Vikas Vazhayil and Madhav Rao, "Design of a portable anthropomorphic upper limb rehabilitation device for patients suffering from neuromuscular disability," in Proc. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Montreal; Canada, July 20-24, 2020, pp.4708-4712.

doi: doi.org/10.1109/EMBC44109.2020.9176399

P. Pon Deepika, Sriram Marisetty, Pavan Kumar Pothula, K. Vinay, Vikas Vazhayil, T.K. Srikanth and Madhav Rao, "Towards an Autonomous Neuro-Navigation System for Robotic Neurosurgery," in Proc. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Montreal; Canada, July 20-24, 2020, pp. 6203.

Sriram Marisetty, Pavan Kumar Pothula, P. Pon Deepika, K. Vinay, Vikas Vazhayil and Madhav Rao, "A Step towards an Automated Drilling Device for Neurosurgical Applications," in Proc. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Montreal; Canada, July 20-24, 2020, pp. 6220.

Ronak Doshi, Arvind Ramsankar, Aravind Reddy, Kirit Arumalla, Anita Mahadevan, Vikas Vazhayil and Madhav Rao, "Design and Development of a Flexible Robotic Operative Microscope for Surgical Applications," in Proc. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Montreal; Canada, July 20-24, 2020, pp. 6245. doi: doi.org/10.1109/EMBC44109.2020.9176399

Palakurthi Ravali, Purbasha Panda and Madhav Rao, "Design and Analysis of Ultra-Low Power Adiabatic Computational Subsystem Based on

Symmetric Stacking," in Proc. 24th International Symposium on VLSI Design and Test (VDAT), Bhubaneswar; India, July 23-25, 2020, pp. 1-6. doi: [doi.org/ 10.1109/VDAT50263.2020.9190548](https://doi.org/10.1109/VDAT50263.2020.9190548)

Manpreet Kau Jaswal and Subir Kumar Roy, "DynRP- Non-Intrusive Profiler for Dynamic Reconfigurability," in Proc. 24th International Symposium on VLSI Design and Test (VDAT), Bhubaneswar; India, July 23-25, 2020, 2020, pp. 1-6. doi: doi.org/10.1109/VDAT50263.2020.9190415

Surya Padma, Sounak Das, Subhajit Sen and Chetan D. Parikh, "High Performance Operational Amplifier with 90dB Gain in SCL 180nm Technology," in Proc. 24th International Symposium on VLSI Design and Test (VDAT), Bhubaneswar; India, July 23-25, 2020, pp. 1-5. doi: [doi.org/ 10.1109/VDAT50263.2020.9190288](https://doi.org/10.1109/VDAT50263.2020.9190288)

Spoorthi M. N and Subir K. Roy, "A Decimal Multiplier With Improved Speed Using Semi-Parallel Iterative Approach," in Proc. 24th International Symposium on VLSI Design and Test (VDAT), Bhubaneswar; India, July 23-25, 2020, pp. 1-6. doi: doi.org/10.1109/VDAT50263.2020.9190260



Journal & Magazine Articles:

Rajavaram Harika and B. Thangaraju, "Continuous deployment orchestration using Rundeck," *Open Source for You*, vol. 7, no. 11, pp. 91-95, August 2019.

doi: <https://opensourceforu.com/2019/08/solutions-to-priority-inversion-in-a-multi-threaded-programming-environment/>

B. Ashok, "Tubes and containers at the nano and microscales: Statics and dynamics," *Indian Academy of Sciences Conference Series*, vol. 2, pp. 19-24, September 2019.

doi: <https://www.ias.ac.in/article/fulltext/conf/002/0003>

B. Thangaraju and D. Sai Divya, "How to go about Linux boot time optimisation," *Open Source for You*, vol. 7, no. 12, pp. 75-78, September 2019.

doi: <https://opensourceforu.com/2019/10/how-to-go-about-linux-boot-time-optimisation/>

Madhav Rao, "Research highlights," *CSI Transactions on ICT*, vol. 7, no. 3, pp 205-208, September 2019.

doi: doi.org/10.1007/s40012-019-00237-8

Premaja R. Remya, Brijesh Kumar Mishra, C.N. Ramachandran and N. Sathyamurthy, "Effect of confinement on structure, energy and vibrational spectra of (HF)_n, n = 1-4," *Chemical Physics Letters*, vol. 733, 16 October 2019.

doi: doi.org/10.1016/j.cplett.2019.136670

Arun M. George, Rahul Sharma and Shrisha Rao, "IEEE 754 floating-point addition for neuromorphic architecture," *Neurocomputing*, vol. 366, pp. 74-85, November 2019.

doi: doi.org/10.1016/j.neucom.2019.05.093

Ramakrishnan Raman and Meenakshi D'Souza, "Decision learning framework for architecture design decisions of complex systems and system of systems," *Systems Engineering*, vol. 22, no. 6, pp.538-560, November 2019.

doi: doi.org/10.1002/sys.21517

Arti D. Yardi and Saravanan Vijayakumaran, "Properties of syndrome distribution for blind reconstruction of cyclic codes," *Applicable Algebra in Engineering, Communications and Computing*, vol. 31, no. 1, p.23-41, January 2020.

doi: doi.org/10.1007/s00200-019-00392-0

Anjana Prabhakar and Tricha Anjali, "Gray Hole Attack as a Byzantine Attack in a Wireless Multi-Hop Network," *Journal of Applied Security Research*, vol. 15, no. 1, p.116-145, 2020.

doi: doi.org/10.1080/19361610.2019.1669988

Amit Kumar, Subhasish Mallick, Brijesh Kumar Mishra and Pradeep Kumar, "Effect of Ammonia and formic acid on the CH₃O + O₂ reaction: A quantum chemical investigation," *Physical Chemistry Chemical Physics*, vol. 22, no. 4, p.2405-2413, January 2020.

doi: doi.org/10.1039/c9cp04612g

Dibakar Das, Jyotsna Bapat and Debabrata Das, "SDN assisted self organizing network architecture for multi-RAT networks and mobility prediction," *Wireless Networks*, vol. 26, no. 1, p.63-80, January 2020.

doi: doi.org/10.1007/s11276-018-1776-2

Pradeesha Ashok, Aniket Basu Roy and Sathish Govindarajan, "Local search strikes again: PTAS for variants of geometric covering and packing," *Journal of Combinatorial Optimization*, vol. 39, no. 2, p.618-635, February 2020.

doi: doi.org/10.1007/s10878-019-00432-y

K. N. Nandakishore, V. Sridhar and T. K. Srikanth, "Key quality of service attributes of digital platforms," *Asia Pacific Journal of Information Systems*, vol. 30, no. 1, p.94-119, March 2020.
doi: doi.org/10.14329/apjis.2020.30.1.94

K. Gopika Gopan, Sathvik S. Prabhu and Neelam Sinha, "Sleep EEG analysis utilizing inter-channel covariance matrices," *Biocybernetics and Biomedical Engineering*, vol. 40, no. 1, p.527-545, January-March 2020.
doi: doi.org/10.1016/j.bbe.2020.01.013

Hartej Singh Hundal, A. P. Janani and Bidisha Chaudhuri, "A conundrum of efficiency and inclusion: Aadhaar and fair price shops," *Economic and Political Weekly*, vol. 55, no. 14, 04 April 2020.

Silvia Masiero and Amit Prakash, "ICT in social protection schemes: Deinstitutionalising subsidy-based welfare programmes," *Information Technology & People*, vol. 33, no. 4, pp. 1255-1280, 2020.
doi: doi.org/10.1108/ITP-02-2018-0086

Sarvam Mittal, "An Exploratory Data Analysis of COVID-19 in India," *International Journal of Engineering Research & Technology (IJERT)*, vol. 9, no. 4, pp. 580-584, April-2020.
doi: <http://dx.doi.org/10.17577/IJERTV9IS040550>

Elisa Oreglia and Janaki Srinivasan, "Human and non-human intermediation in rural agricultural markets," *Journal of Cultural Economy*, vol. 13, no. 4, pp. 353-367, 2020.
doi: doi.org/10.1080/17530350.2018.1544918

Balachandra Kumaraswamy and P. G. Poonacha, "Recognizing Ragas of Carnatic genre using advanced intelligence: a classification system for Indian music," *Data Technologies and Applications*, vol. 54, no. 3, pp. 383-405, May 2020.
doi: doi.org/10.1108/DTA-04-2019-0055

Debanjali Bhattacharya, Neelam Sinha, Shweta Prasad, Pramod Kumar Pal, Jitender Saini and Sandhya Mangalore, "A New Statistical Framework for Corpus Callosum Sub-Region Characterization Based on LBP Texture in Patients With Parkinsonian Disorders: A Pilot Study," *Frontiers in Neuroscience*, vol. 14, article no. 477, 13p., May 2020.
doi: doi.org/10.3389/fnins.2020.00477

Laasya Bangalore, Ashish Choudhury and Arpita Patra, "The Power of Shunning: Efficient Asynchronous Byzantine Agreement Revisited," *Journal of the ACM*, vol. 67, no. 3, Article no. 4, 59p., May 2020.
doi: doi.org/10.1145/3388788

Sowmya Rasipuram and Dinesh Babu Jayagopi, "Automatic multimodal assessment of soft skills in social interactions: a review," *Multimedia Tools and Applications*, vol. 79, no. 19-20, p.13037-13060, May 2020.
doi: doi.org/10.1007/s11042-019-08561-6

Kamal Chaturvedi and Shrisha Rao, "Distributed Elections using Site-Push Majority Winner Monitoring," *IEEE Systems Journal*, vol. 14, no. 2, pp. 1682-1691, June 2020.
doi: doi.org/10.1109/JSYST.2019.2900005

Monica Plechero, Mandar Kulkarni, Cristina Chaminade and Balaji Parthasarathy, "Explaining the past, predicting the future: The influence of Regional trajectories on innovation networks of new industries in emerging economies," *Industry and Innovation*, Online, 23p. June 2019.
doi: doi.org/10.1080/13662716.2020.1780419

Linus Kendall, Bidisha Chaudhuri and Apoorva Bhalla, "Understanding Technology as Situated Practice: Everyday use of Voice User Interfaces Among Diverse Groups of Users in Urban India," *Information Systems Frontiers*, vol. 22, no. 3, pp. 585-605, June 2020.
doi: doi.org/10.1007/s10796-020-10015-6

PUBLICATIONS

Gopalakrishnan Venkatesh, Aayush Grover, G. Srinivasaraghavan and Shrisha Rao, "MHCAttnNet: predicting MHC-peptide bindings for MHC alleles classes I and II using an attention-based deep neural model," *Bioinformatics*, vol. 36, Supp. no. 1, p.i399-i406, July 2020.

doi: doi.org/10.1093/bioinformatics/btaa479

Janaki Srinivasan and Elisa Oreglia, "The Myths and Moral Economies of Digital ID and Mobile Money in India and Myanmar," *Engaging Science, Technology and Society*, vol. 6, p.215-236, 2020.

doi: doi.org/10.17351/ests2020.276

Bidisha Chaudhuri, "Distant, opaque and seamful: Seeing the state through the workings of Aadhaar in India," *Information Technology for Development*, Online July 2020.

doi: doi.org/10.1080/02681102.2020.1789037

David C. Andersson, Brijesh Kumar Mishra, Nina Forsgren, Fredrik J. Ekström and Anna Linusson, "Physical Mechanisms Governing Substituent Effects on Arene–Arene Interactions in a Protein Milieu," *The Journal of Physical Chemistry B*, vol. 124, no. 30, p.6529-6539, July 2020.

doi: doi.org/10.1021/acs.jpccb.0c03778

K. E. Manjunath, Dinesh Babu Jayagopi, K. Srinivasa Rao and V. Ramasubramanian, "Articulatory-feature-based methods for performance improvement of Multilingual Phone Recognition Systems using Indian languages," *Sadhana*, vol. 45, 14p., July 2020.

doi: www.ias.ac.in/article/fulltext/sadh/045/0190

Dibakar Das, Jyotsna Bapat and Debabrata Das, "Unsupervised Learning based Capacity Augmentation in SDN Assisted Wireless Networks," *SN Computer Science*, vol. 1, no. 4, 13p, July 2020.

doi: doi.org/10.1007/s42979-020-00233-9

Book Chapters

Srinath Srinivasa and Jayati Deshmukh, "The Evolution of Computational Agency. " in *Novel Approaches to Information Systems Design*, Naveen Prakash and Deepika Prakash (Eds.), IGI Global, January 2020, Chapter 1, 1-19p.

doi: doi.org/10.4018/978-1-7998-2975-1.ch001

Brijesh Kumar Mishra and Balakrishnan Ashok, "Modeling Multiwalled Carbon Nanotubes: from Quantum Mechanical Calculations to Mechanical Analogues," in *Organized Networks of Carbon Nanotubes*, K.R.V. Subramanian, Raji George and Aravinda CL Rao (Eds.), CRC Press, March 2020; eISBN: 9780429298011, chapter 6: pp. 107-118.

<https://www.taylorfrancis.com/books/e/9780429298011/chapters/10.1201/9780429298011-6>

Pramoth Kumar Joseph, R. Srinivasan and Sandeep Lakshmi pathy, "20 Innovating in the Open lab – Archetypes of OI Strategies and Capabilities," in *Innovating in the Open Lab*, Albrecht Fritzsche, Julia M. Jonas, Angela Roth and Kathrin M. Möslin (Eds.), De Gruyter, May 2020; eISBN: 9783110633665, chapter 20: pp. 227–242

doi: doi.org/10.1515/9783110633665-020



Authored Books

V. Sridhar, "Emerging ICT Policies and Regulations: Roadmap to Digital Economies." Singapore; Springer, October 2020. ISBN: 978-9813290211; 311p.
doi: doi.org/10.4324/9780203731932

Edited Books

Dang Van Hung and Meenakshi D'Souza (Eds.), "Distributed Computing and Internet Technology: Proceedings of the 16th International Conference on Distributed Computing and Internet Technology, ICDCIT 2020," Switzerland, Springer: 2020. ISBN: 978-3-030-36987-3. (LNCS Series, vol. 11969).
doi: doi.org/10.1007/978-3-030-36987-3

Books Reviews

Bidisha Chaudhuri. Book Review: Programmed Inequality: How Britain Discarded Women Technologists and Lost Its Edge in Computing by Mar Hicks in *Feminist Review*, vol. 123, no. 1, pp. 137-139, November 2019.
doi: doi.org/10.1177/0141778919878923

Patents

Granted

International Institute for Information Technology-Bangalore, Method and system of transmitting video data to user equipments in a wireless communication environment, Indian Patent 4528/CHE/2011, November 11, 2019.

Vengalil, Anil Kumar and Das, Debabrata, "Method and device for detecting a malicious SCTP receiver terminal," European Patent EP 3103237 B1, February 19, 2020.

Vishwanathan Ramasubramanian and Sunderrajan Kumar, "Raw Speech Speaker-recognition," U.S. Patent 10,706,857, July 07, 2020.

Published

Kavin Kumar Thangadorai, Debabrata Das, Kumar Murugesan, Mayuresh Madhukar Patil and Abdus Sarif Ahmed, Wi-Fi Direct and Service over backhaul networks," (Indian Patent Published 201841003536; 31/2019, August 2, 2019), Samsung Electronics co. Ltd.

Saptarshi Chaudhuri, Irfan Baig, Prashant Mishra and Debabrata Das, "A system and a method for user scheduling in a wireless broadband network," Published (Indian Patent 201821015753; 44/2019, November 1, 2019), Tata Power Company Limited, Strategic Engineering Division.

Prasanna G N Srinivasa, "GANAKA: A computer operating on models," Published (European Patent WO/2020/089695, May 07, 2020), Prasanna G N Srinivasa.

14. Appointments & Adieu



January 18, 2006

Dutch Prime Minister meets
IITB team in Bangalore



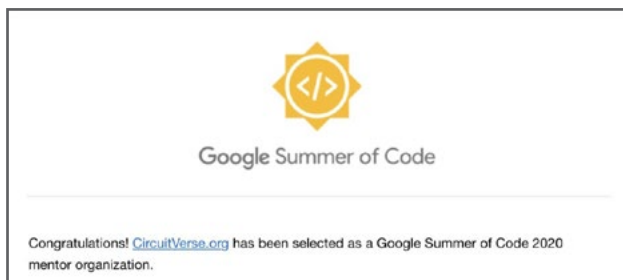
Welcome on board

| Sl.No | Name | Designation | DOJ |
|-------|-----------------------------|---|-------------------|
| 1 | Basid A | Physics Lab in Charge | August 19, 2019 |
| 2 | Bharathy P | Doctor | October 3, 2019 |
| 3 | Karthik Kittu | Chief Innovation Officer – IIITB Innovation Center | October 1, 2019 |
| 4 | Debasmita Behera | Cultural Activities Coordinator | October 17, 2019 |
| 5 | Cdr J Venkata Prasad | Executive Officer – Office of R&D | December 2, 2019 |
| 6 | Dr Viswanath Gopalakrishnan | Assistant Professor | January 01, 2020 |
| 6 | Prasanta Kumar Nayak | Security Officer | February 1, 2020 |
| 7 | Mani Ram | Security Officer | February 1, 2020 |
| 8 | Neha Arora | Sports Officer | February 18, 2020 |
| 9 | Y S Narayan | Chief Operations Officer | June 8, 2020 |

Adieu

1. **Prof JayPrakash T L** resigned. Relieved on July 19, 2019
2. **Vijayeta Sharma** resigned. Relieved on October 25, 2019
3. **Garima Prasher** resigned. Relieved on November 29, 2019
4. **Prof Brijesh Kumar Mishra** resigned. Relieved on February 29, 2020





Circuit Verse is an Open Source project, created by iMTech 4th year student Satvik Sunkam Ramprasad. The project has been picked by Google as one of the approved projects to be offered under Google's Code-in programme, which is a global, online contest focused on open source development.



Garba Night: IITB organized Garba night on October 13 as part of Navratri celebrations. The event started at 6:00 pm with much energy and enthusiasm among the students. The campus was decorated with lights and well-rehearsed students performed on various songs in unison. They showed up in traditional attire and played Garba till 9 pm followed by Night for another hour. Food stalls were also set up as part of the event.



172 IITB students and staff came forward to donate blood and blood stem cell at the **Blood donation Camp** organized in the campus on September 5. The camp, set up by Bangalore Medical Services Trust (BMST), a not for profit organization working in the field of blood banking and transfusion was organized with the aim to encourage the youth to donate blood, and to spread awareness.

Students celebrated **Teachers' Day** on September 5. The event was filled with a lot of fun performances among them Improv was attracted the audience. Parvaaz (Theatre and Arts Club) performed a play titled "Fakir Singh". A parody of Kabhir Singh, it depicted the stress which students will go through while attending placement-related events. As a token of appreciation, all Professors were gifted a croton plant, along with handmade book marks.



Freshers’ Night is one of the most looking forward events by students and serves as an icebreaker, where freshers get to interact closely with seniors. This time, the Freshers’ night was organized on September 7. The theme of the event was Neon. To create the theme the organizers (SAC) switched off the venue lights, provided everyone with with neon wrist bands and painted their faces with glowing paints. The neon themed photo booth was the attraction of the Freshers’ night.

Violin recital, dance performance, quiz contest, traditional Indonesian tango-allthis and much more was part of the IIITB’s **20th Foundation Day celebrations** held on September 15. As part of the event, we organized few student / staff contests. Contest name: Eureka (Quiz) Winners: Prof. R. Chandrashekar, Mrunal (iMTech) and Tanmay (iMTech)

Onam, the annual harvest festival was celebrated at IIITB on September 21.

Yamini 2019: IIITB held Yamini 2019, a dusk-to-dawn experience of Indian culture through mesmerizing classical dance and musical performances on 31st October, under the aegis of SPICMACAY. The highlights are : The event began at 6 PM with Madhusmita Mohanty’s scintillating Odissi dance performance, followed by a beautiful Carnatic Vocal Duet by Hyderabad Sisters, Bhaskara Lalitha and Bhaskara Haripriya. The enthralling performance of Pandit Kushal Das playing Sitar. At 1:30 AM, the Akkarai Sisters, Smt. S Subhalakshmi and Smt. S Sornalatha took the stage for a Carnatic Violin Duet. At 4:00 AM, Pandit Uday Bhawalkar stepped onto the stage for a Dhrupad Vocal.

Prakhar Mishra was selected as an **Intel Student Ambassador** for Artificial Intelligence on November 28, 2019. He is working in the field of Natural Language Generation. Prof Srinath Srinivasa is his supervisor and Prof. G Srinivasaraghavan is Co-Supervisor.

Sanjaya M.V is selected as an **Intel Student Ambassador** for Artificial Intelligence. He is working on designing domain-specific hardware architecture to run deep learning algorithms, with Prof. Madhav Rao.





Aikyam (IIITB Student Club) along with a group of IIITB students celebrated **Children's Day** with the children of Surabhi Orphanage (5 km from IIITB) on the evening of 14th November. The goal was to spend some quality time with the orphanage children, organize few engaging events, distribute goodies and donate necessary ration and clothing. The club distributed sweets, rice packets & other groceries, blankets, soaps, writing materials, & old clothes donated by the student community.



November 15, AKSH (IIITB Literature Club) organized an evening of poetry and storytelling event **GEETAGEET**. The event started with a beautiful Gazal recited by Shashank Mishra (MT2019101) received with thunderous applause. Next, Subarna (MT2019523) moved the audience with his story based on the theme "childhood vs corporate life". After that, Shivankit (MT2018521) delicately narrated a story on those fine aspects of life, that are generally overlooked. Subsequently, Vikram (MT2018085) created a fantasy world with his fantastic fictional story. Next, Soonver (MT2018118) lightened the

mood of the event with his poem on "love and life". After that, Aditya filled the veins of the audience with patriotism with his "veer-ras" poem. At the end, Lushika touched every heart with her poem on the "father-daughter" relationship. With this, the first part of the event came to an end. In the second segment of the event, interested students from the audience were asked to come upon the stage and showcase their talent.

Zense Club (IIITB Coding and Programming Club) organized a **hackathon** aka. HacKnight 2k19, on 15th November and encouraged students by awarding cash prizes to winners; Besides, they also gave away swag like stickers, digital certificates and food for all. 130 students participated in the event. The timeline for the event was from 6.00 PM (15th November 2019) to 11.00 AM (16th November 2019), with breaks in between.

Service Science session chaired by Anushka Chandrababu, Abhilasha Aswal in **INFORMS Annual Meeting** in Seattle, in October 2019.



STUDENT ACTIVITIES AND AWARDS



On November 16th, IIITB Dance Club & SAC organized an evening of Dance - **PromNight** (Dance in pairs) a first-ever event at IIITB. Around 140 IIITB students and 15 students from other academic institutes participated enthusiastically. The list of awards to be won were: Prom Queen, Prom King and Best Couple. The last hour was open to all the students on campus and around 150 students joined the DJ Night. The award winners were: 1. Prom Queen: Palasha (ICFAI Business School, Hyderabad) 2. Prom King: Vaibhav, (IIITB) 3. Best Couple: Vivek and Nimisha (IIITB).











Anushka Chandrababu, Prof. G N Srinivasa Prasanna: "**Issues and Challenges in Service Analytics in a nutshell**", INFORMS Annual Meeting, Seattle, USA, October 2019.

Anushka Chandrababu Oindrila Matilal, Shyam K B, Debanjali Bhattacharya have **won best paper awards**.

Kumar Shubham is an exchange student at University of Lausanne, Switzerland. He is working with Prof. Marianne Schmid Mast for three months starting February 11, 2020. His Master's thesis explores **Modern AI techniques for Social Psychology**.



Student Admissions in 2019-20

| | | | |
|-----------------------------|---|--|-----|
| MTech 165 | M |  | 136 |
| | F |  | 29 |
| iMTech 121 | M |  | 110 |
| | F |  | 11 |
| MS 24 | M |  | 12 |
| | F |  | 12 |
| MSCDT 27 | M |  | 15 |
| | F |  | 12 |
| PhD 10 | M |  | 6 |
| | F |  | 2 |

Total Students: 347



121

Students joined iMTech during the year 2019-20



34

Students Selected / Joined for Research Program 2019-20 Term 1



PLACEMENTS

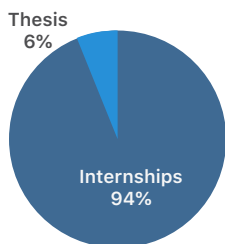
2020 Graduates - Summary

233
STUDENTS
Participated in the placement
Process

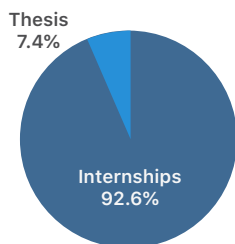
55
COMPANIES
Visited the Campus for
Recruitment

5
STUDENTS
Will be pursuing higher Studies
from Top Universities

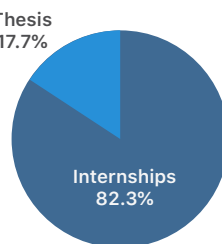
3
INTERNATIONAL OFFERS
From Top MNCs of the World



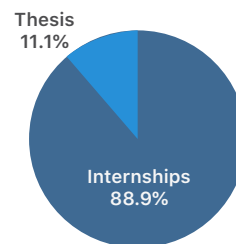
M.Tech CSE



M.Tech ECE



iMtech



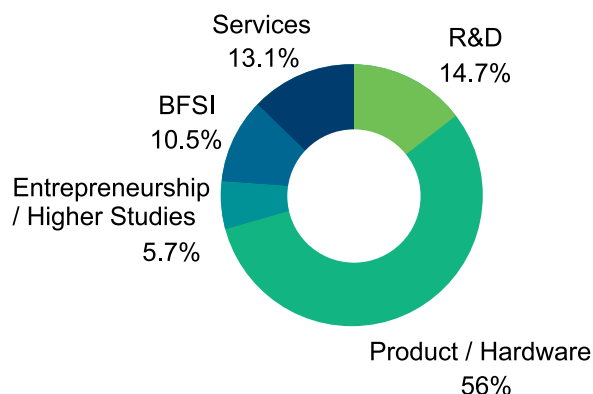
M.Sc Digital Soc
& M.S by research

Some of our top recruiters

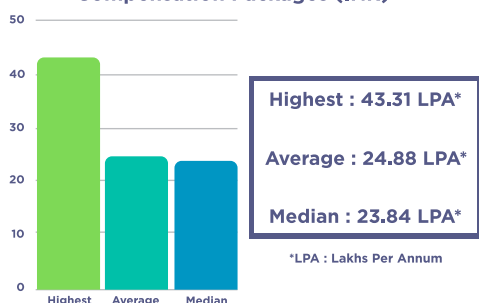


Employment offers - 2020

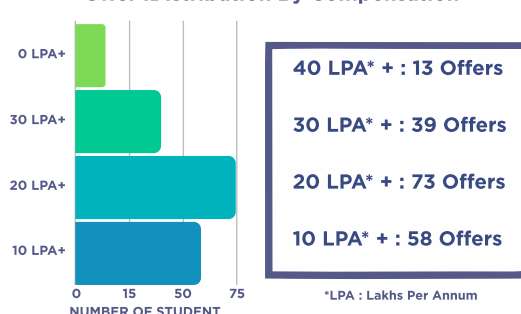
TYPES OF COMPANIES



Compensation Packages (INR)

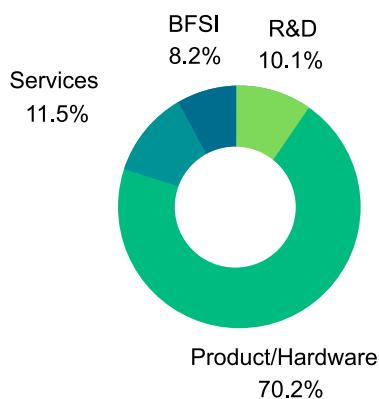


Offer :Distribution By Compensation

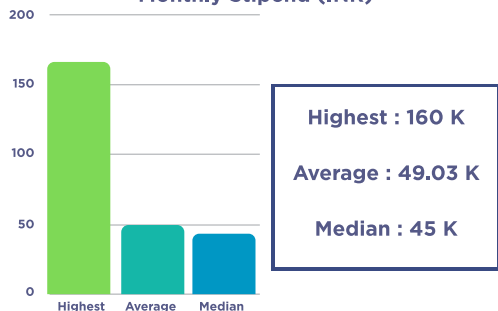


Internship offers - 2020

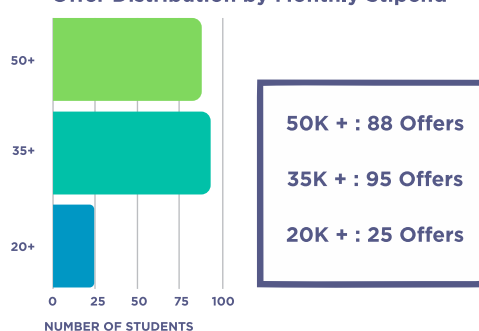
TYPES OF COMPANIES



Monthly Stipend (INR)



Offer Distribution by Monthly Stipend



PLACEMENTS

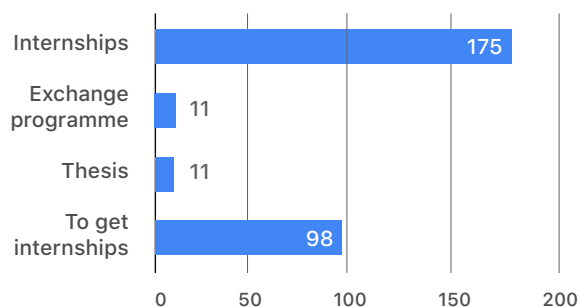
**Graduates - 2020:
Universities that offered further education (MS/PhD)**



Placement of 2020 - 2021 graduates" (As on 20th October 2020)

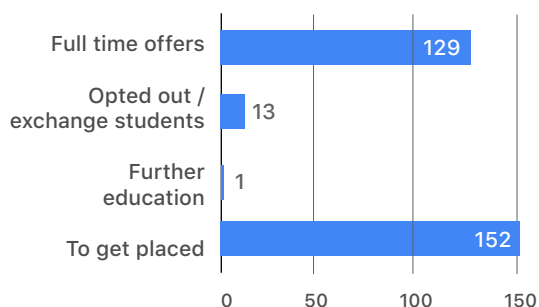
Internships

Number of students:295

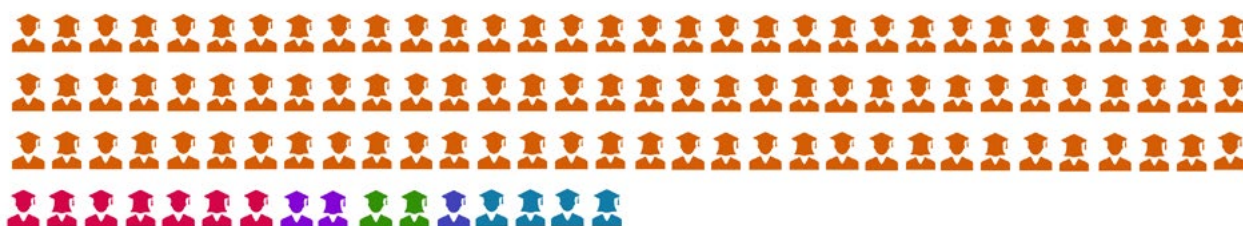


Full time employment

Number of students:295



Alumni









| MTech | iMTech | MS by Research | MS in Digital Society | Sponsored Mtech | PhD |
|-------------|------------|----------------|-----------------------|-----------------|-----------|
| 2776 | 227 | 65 | 36 | 144 | 41 |

Total Students: 3289

- The institute has produced more than **50 entrepreneurs**.
- **Nearly 109 students** have pursued higher studies after graduating from IIT Bangalore.

Some acquisitions and funding received by organizations founded by alumni

| | | |
|---|--------------------------------------|---|
|  | Khadim Bhatti | Acquired Start-up "Airim" in October 2019 and received Series C funding of \$ 32 Million in Feb 2020 |
|  | Uday Hegde | USEREADY has acquired Design Strategy Corporation and Rawmind Analytics (strengthens USEReady's Business Intelligence and Cloud practices) |
|  | Paddy Raghavan | Acquired by Cisco in 2018. Enterprises can automatically benefit from AWS cost and usage savings by optimizing workloads with spot instances and EC2 smart sizing |
|  | PhD alumnus Dr. Krishna Sashank Dara | Seconize is selected for DSCI's National Center of Excellence (COE) for cyber security startups. Seconize got selected for ideation stage in cyber security grand challenge - https://innovate.mygov.in/cyber-security-grand-challenge/ |
|  | Ananda Verma | Raised \$1.6 million in seed funding led by Omnivore Ventures and Wavemaker Partners in 2019 |
|  | Ashutosh Trivedi | Spext is the future of media editing. It looks like a google doc but works like a very powerful media editor. Pre seed funded by UC Berkeley Accelerator - Skydeck. Part of Indian startup delegation to Sweden in 2019. |

Student Affairs Council (SAC) members in AY 2019-20

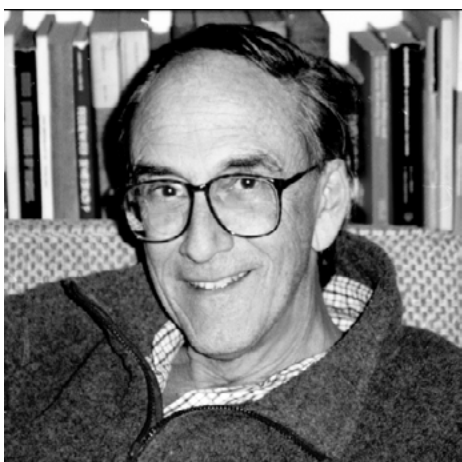
- | | | |
|---------------------|--------------------|------------------|
| 1. Aniruddh Trivedi | 4. Shivani Sah | 7. Bharath Joshi |
| 2. Smit limbani | 5. Brahma Kulkarni | 8. Abhigna Banda |
| 3. Prachi Gupta | 6. Ananya Appan | |



IN FOND REMEMBRANCE

**Prof. BS Sonde passed away on 9th November 2019.**

Prof. B S Sonde has been a pillar of strength to IIITB especially in matters pertaining to Academics. He has been a member of the IIITB senate since November 26, 2008. His valuable advices on matters pertaining to curricula of various programmes of IIITB, syllabus formulation and numerous academic issues have helped the institute immensely in its growth as a renowned academic institution. His proactive contribution and presence in the institute during UGC expert committee visits for according Deemed University Status and also during visits of AICTE officials for recognizing the M Tech and Integrated M Tech programs were very reassuring and extremely significant.

**Prof Kenneth Keniston passed away on 14th February, 2020.**

Prof Kenneth Keniston, founder of the MIT Program in Science, Technology, and Society was on our Board from 2003 to 2006. He was a Visiting Faculty in 2004-05.

**Rajat Srivastava passed away on 26th July 2020.**

Rajat Srivastava was from the 2001 batch in IIITB. He was working as VP, JPMorgan Chase & Co. in Hyderabad, and has left behind a family of his wife and two children.

17. | IITB in the news



October 13, 2004

IITB Director meets Google Founders
Larry Page & Sergey Brin in Bangalore



UK's University of Southampton in collaboration with IIIT-B to organize 'SafeCity Datathon' in Bengaluru on 14th February

By India Education Diary Bureau Admin - February 12, 2020




Bengaluru: With an aim to make data on gender-based violence, the Social Impact Lab at the UK-based University of Southampton, in collaboration with the International Institute of Information Technology, Bengaluru (IIIT-B), the Web Science Trust and the Red Dot Foundation is going to organize a data visualization challenge called 'SafeCity Datathon' on 14th February at IIIT-B campus in Bengaluru.

Being held for the first time, the competition is a result of collaborative efforts between University of Southampton's Social Impact Lab, which is also the main organizer, Red Dot Foundation and IIIT-B. In this challenge, 25 participants from IIIT-B will present a visualized representation of data, gathered by SafeCity (a platform by NGO Red Dot Foundation, which crowd maps incidents of gender-based violence) before the judges. The distinguished panel of judges will include Isa D'Silva (CEO-Red Dot Foundation), James Godber from the Foreign and Commonwealth Office and Dr Pathik Pathak (Director of the Social Impact Lab, University of Southampton), among others.

Here's how IIIT-B developed Karnataka COVID-19 portal within a week! Check details

By Butul Dhasan | Updated: Jul 10, 2020 6:43 PM

Professor S Sadagopan talks to Financial Express about the challenges done to tackle the coronavirus pandemic.



Kudos to IIIT-B's quick work on Karnataka COVID-19 portal!

COVID-19 is not the first time that IIIT-B has assisted in the healthcare sector.

Coronavirus pandemic in India: Kudos! Premier IT institute in Karnataka IIIT-Bangalore has been silently working on several initiatives during the coronavirus pandemic. As the entire country grapples with widespread COVID-19, International Institute of Information Technology, Bangalore (IIIT-B) has been trying to make use of its own expertise in various ways to contribute in whatever way possible. During this, a major contribution by the institute has been the development of Karnataka's COVID-19 dashboard, which has been the source where all the information regarding the coronavirus cases in the state is shared.

Innovations galore, NIMHANS and IIITB in Bengaluru extend MoU for 2 more years



NIMHANS on Monday signed an MoU to extend its existing agreement with IIITB for two more years. The existing MoU was for a three-year period, while the overall collaboration had been for about four years. (DH File Photo)

NIMHANS on Monday signed an MoU to extend its existing agreement with IIITB for two more years. The existing MoU was for a three-year period, while the overall collaboration had been for about four years.

"On 26th January 2022, the dream is to have one platoon of paraplegic soldiers wear the Bionic Yantra powered by IIITB and NIMHANS, and salute the national flag," said Karthik Kittu, Chief Innovation Officer, IIITB, about one of the many innovations of both institutes over the past four years.

NIMHANS on Monday signed an MoU to extend its existing agreement with IIITB for two more years. The existing MoU was for a three-year period, while the overall collaboration had been for about four years.

COVID-19 tracking blockchain platform launched

ET Bureau - Last Updated: Jul 24, 2020, 04:08 PM IST

Synopsis
The institute had launched Setu Bhandhan, a Covid19 challenge in association with Mphasis to support IIITB's startups with research and funds. BelYo gives a solution that is the need of the hour.



PUNE: Global blockchain startup BelricsBT and YoSync, a startup incubated at IIITB-IMACX Studios, signed a research collaboration in agreement with IIIT Bangalore to jointly develop BelYo, a Covid19 tracking blockchain platform. The project has been funded by the Mphasis FI Foundation.

The platform is currently being tested in a few clinics and will be reaching out to ICMR approved 730 Government labs and 270 private labs starting mid-August.

The platform is currently being tested in a few clinics and will be reaching out to ICMR approved 730 Government labs and 270 private labs starting mid-August.

BelYo uses the BelricsBT Belrium blockchain platform to convert COVID-19 related clinical and vaccination data of citizens currently from the physical Aarogya Setu via APIs. Individuals can scan and retrieve data through a QR code.

IIIT-Bangalore hosts its first ever e-convocation, awards degree to 282 students

Through the e-convocation, IIIT-Bangalore awarded degrees to 282 graduating students



At the e-convocation of the IIIT Bangalore, image source: iitb.ac.in

The International Institute of Information Technology Bangalore (IIIT-B) on Sunday, July 5 held its 20th convocation online amidst the current situation brought by the coronavirus pandemic. The Institute awarded degrees to 282 graduating students. This consisted of 7 PhD degrees, 13 Master of Science by Research degrees, 159 M.Tech degrees, 11 M.Sc. degrees, 63 dual degrees, and 29 students with sponsored M.Tech degrees, on the special occasion.

Karnataka: 30 cops get cybercrime lessons from IIIT-Bangalore professor

Sruthi Susan Ullas | TNN | Mar 17, 2020, 13:04 IST



THE TIMES OF INDIA

International Institute of Information Technology, Bangalore on cybercrime and forensics. As a first step, 30 police officers underwent a two-day training on various subjects related to cybercrime. "Our institute has faculty members who specialise in computer and information security and cryptology, apart from being experts in information and communications technology policy. The theory behind the subjects, along with the policy, is important for law-enforcement officers of the cybercrime wing," said Prof V Sridhar, IIITB.



WORLD – GIG ECONOMY FIRMS MUST DO MORE TO PROTECT WORKERS, REPORT SAYS

06 May 2020

Gig economy workers are facing the impossible choice between destitution and infection, according to a new report from the Fairwork Foundation.

The report, [‘The Gig Economy and Covid-19: Fairwork Report on Platform Policies’](#), assesses 120 online service platforms across 23 countries on their responses to the Covid-19 pandemic.

It found that a few ride-hailing companies like Bolt (South Africa) and Grab (Philippines) have installed physical plastic barriers between drivers and passengers, but just five of the 120 platforms had direct policies to compensate workers for loss of income caused by reduced demand for their services.

On sick pay, there have been efforts by companies such as Uber Eats in the UK to offer compensation to ill workers - however, based on an eight-hour working day, this is at best around two-thirds of what a worker would earn even at the UK national minimum wage.

“While governments across the world have torn up ideologies and rulebooks in response to Covid-19, a disappointingly high number of companies in the gig economy are prioritising shareholders, investors and customers above their own workforce,” Professor Richard H of the University of Manchester, and report co-author, said.

New Industry-Academia Program In India To Collaborate With Engineering Students On AI, IoT, 5G Launched



Each project will be taken up by a team of three students and one professor, with a mentor from SRI-B who will guide and train them, and conduct regular reviews.



23 July 2020

Samsung, India's largest and most trusted consumer electronics and smartphone brand, has launched a unique industry-academia program - Samsung PDSM (Preparation and Inspiring Student Minds) - to stimulate the Indian innovation ecosystem, and build cooperation among students that meet industry needs.

The program, which will be run by Samsung R&D Institute Bangalore (SRI-B), Samsung's largest R&D facility outside of Korea, aimed to nurture engineering colleges that are in the top quartile of the Government of India's National Institutional Ranking Framework (NIRF) rankings. SRI-B has so far signed MoUs with 30 engineering colleges. It will add more colleges over the next few months.

Once the program rollout, SRI-B will collaborate with students and faculty of these engineering colleges, giving them research as well as development projects to be completed over five to six months. Students will get to work on projects in cutting-edge technology areas such as Artificial Intelligence, Data-fueled services, IoT, Machine Learning, Internet of Things & Connected Devices and 5G networks, to solve real-world problems.

Each project will be taking up by a team of three students and one professor, with a mentor from SRI-B who will guide and train them, and conduct regular reviews. Each engineering college can have multiple teams, and students will be selected on the basis of a test conducted by SRI-B.

Students will also be encouraged to publish papers and the patents jointly with SRI-B.

Startups share 260 ideas with Karnataka government to checkmate coronavirus



Building a consent-based mental health database puts patient privacy in focus

ET Bureau • Last Updated: Jul 21, 2020, 10:38 AM IST



Synopsis

“How do you get consent from patients belonging to different demographics? How to authenticate the information, is something that we are looking at,” said TK Srikanth, faculty-in-charge, Computing, at IIT-Bangalore.



BENGALURU: Several states are keen to build a database on the **health history** of their citizens, but developing a consent-based mechanism is the real challenge, according to an International Institute of Information Technology team that worked with Nimhans to develop **Karnataka's mental health repository, e-Manas**.

“How do you get consent from patients belonging to different demographics? How to authenticate the information, is something that we are looking at,” said TK Srikanth, faculty-in-charge, Computing, at IIT-Bangalore.

On Record

WHAT IS E-MANAS?

- A software that keeps records of every mental health professional and institution in the state and the medical history of patients who visit them
- e-Manas was launched by the Karnataka government in June

THE INITIATIVE

- Seen as first of its kind for any Indian state
- Mandates hospitals and doctors in the field of mental health to upload their patients' data on e-Manas portal

Access to patient's record is given with explicit consent of the patient

Going forward, how we develop patient's consent to share the data will largely depend on how the Personal Data Protection Bill 2019 will roll out

TK Srikanth, Faculty-in-charge, Computing, IIT-B

Nehru, Star Wars and social distancing: What went down at IIT-Bangalore's first e-convocation



The graduates included seven PhD degrees, 13 Master of Science by Research degrees, 159 MTech degrees, 11 MSc degrees, 63 dual degrees, and 29 students with sponsored MTech degrees

Johanna Deekha
Edex Live



IIT-Bangalore

The International Institute of Information Technology (IIT-B), Bangalore came together to celebrate the graduating class of 2020 through an e-convocation. This was the institute's 20th Convocation so there was no way that they were going to let this year go by without a celebration, even if it was just through their monitors.



ज्ञानमुत्तमम् : Chapter 14, Bhavad Gita, Verse 1

श्रीभगवानुवाच :-

परं भूयः प्रवक्ष्यामि ज्ञानानां ज्ञानमुत्तमम् |
यज्ज्ञात्वा मुनयः सर्वे परां सिद्धिमितो गताः || 1 ||

Meaning :-

The Divine Lord said: I shall once again explain to you the supreme wisdom, the best of all knowledge; by knowing which, all the great saints attained the highest perfection.





International
Institute of Information
Technology Bangalore

26/C, Electronics City Phase 1, Hosur Road,
Bengaluru, Karnataka- 560100

☎ (+91)80 4140 7777 | 📠 (+91)80 2852 7636

🌐 www.iitb.ac.in



/IIITBofficial



/IIITBmedia



/IIITB_official



/school/IIIT-Bangalore

