



INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE



- *Post Graduate Education and world-class research in Information Technology (Computer Science, Data Sciences, Networking & Communication, VLSI, Mathematics and Basic Sciences and IT & Society)*
- *World-class faculty, vibrant alumni community*
- *Cutting-edge research*
- *Close industry collaboration*
- *State-of-the-art campus infrastructure*



The Genesis

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

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

Unique Factors

There are several factors that position IIIT Bangalore as a unique brand in the field of IT education and research. Some of them are:

Broad academic philosophy with regular curriculum review and appropriate use of technology which includes learning management systems (LMS), lecture capture solutions, automated assessments and so on.

Practice-oriented learning through project electives, lab work and internship.

Emphasis on research through centres of research such as E-Health Research Centre (EHRC), Centre for Data Sciences (CDS) and Centre for Information Technology and Public Policy (CITAPP) that foster multi-disciplinary research.

Entrepreneurial support through the Innovation Centre and startup ecosystem.

Excellent peer group with exclusive merit-based intake.

Global exchange and collaboration with universities including MIT, Boston; University of Berlin; Hof University, and others of international repute.

Student development through participation in initiatives such as alumni programmes, branding, placement, chhayachitra, magazine committee, comic club, theatre and art club.

Leadership

The governing body of IIIT Bangalore consists of eminent personalities from the industry and reputed institutions from across the world. They come from diverse cultures, bring unique perspectives and together, they focus on a single goal — for the institute to play a key role in the global IT scenario with a focus on world-class education and research, entrepreneurship and innovation.



Mr. S. Gopalakrishnan is the Chairman of IIIT Bangalore's Governing Body. He holds a Masters degree in Physics and Computer Science from IIT Madras. He along with Mr. N.R. Narayana Murthy and five others founded Infosys in 1981.

Mr. S. Gopalakrishnan

Chairman Governing Body, IIIT Bangalore



Dr. Debabrata Das is serving as Director of IIIT Bangalore (IIITB). Before joining IIITB in 2002, he had served at G S Sanyal School of Telecommunication at IIT Kharagpur and later at Kirana Networks in New Jersey, USA. He is Principal Investigator and nodal officer of project under National Mission for Interdisciplinary Cyber Physical Systems in the areas of Advanced Communication System, from DST, Govt of India. He is CoPI of a project from Tejas Networks on network node reliability. He was PI of multiple sponsored projects from Intel, Hewlett Packard, Microsoft, Motorola Research, Nokia, Govt. of India on the areas of Broadband Wireless MAC/QoS/Energy-saving, IMS. His main areas of research interest are IoT and Wireless Access Network's MAC, QoS, Power saving. Dr. Das received his Ph.D. degree from the Indian Institute of Technology Kharagpur.

Prof. Debabrata Das

Director, IIIT Bangalore

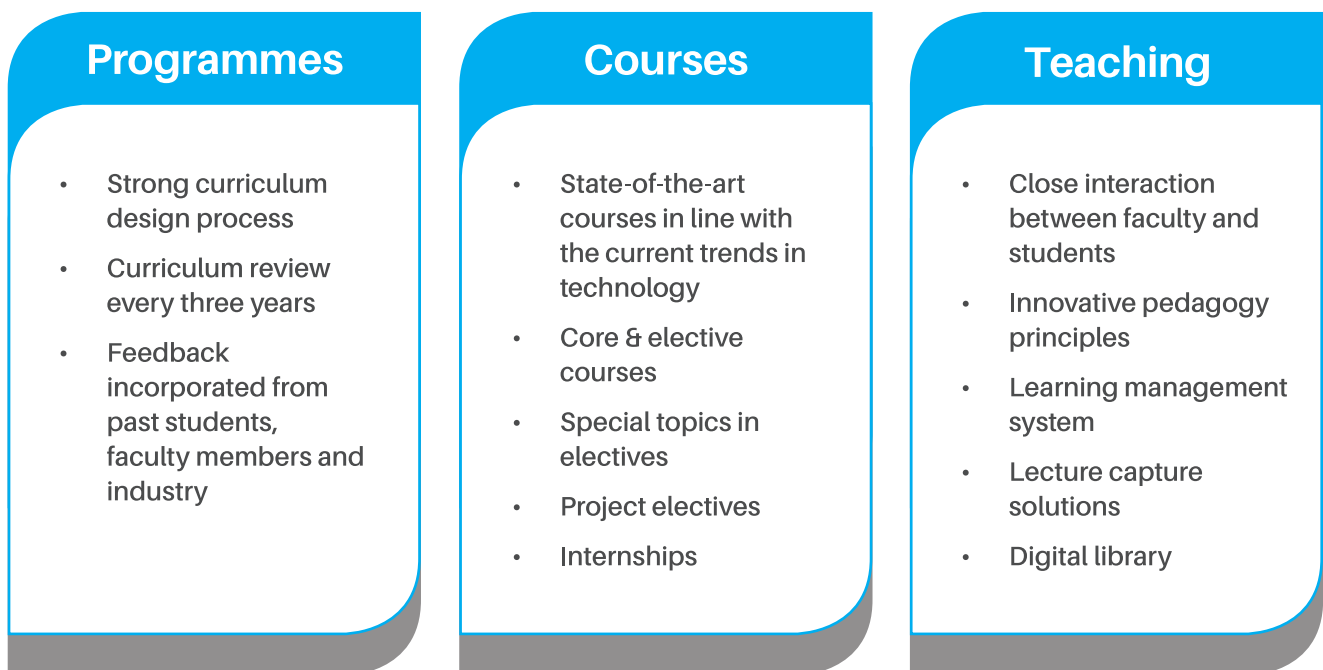
“IIITB focuses on the fundamentals of learning and kindles inquisitive minds into new areas by some of the finest faculty members who are deeply involved in world class teaching and state-of-art research in a conducive campus environment.”

Prof. Debabrata Das, Director, IIIT Bangalore

ACADEMICS

In 2005, IIIT Bangalore was recognised as a “Deemed University” by the University Grants Commission of India (UGC India). With the added benefit of being an autonomous institute, where the Senate approves degrees and curricula to stay up to date with trends, IIIT Bangalore has been at the forefront of ushering in the change. More than 3,500 students have graduated from the Institute since 1999, and serve in over 100 well-known IT product and services companies. The Institute alumni have also founded over 50 enterprises.

IIIT Bangalore follows a very broad academic philosophy with the 3-tier approach of programme, course, and teaching, which distinguishes it from other educational institutions and creates opportunities to make an impact on academics at various levels.



Academic Programmes

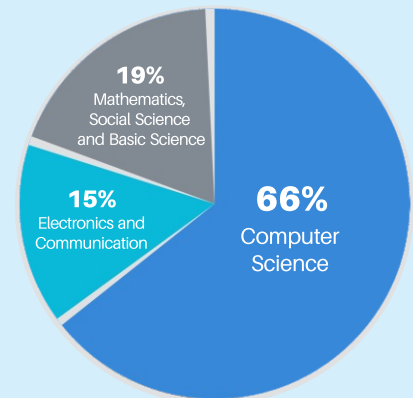
Integrated Masters Programmes - 5-year full-time programme after class 12	Masters Programmes - Programme after bachelors degree	Continuing Professional Education - PG programmes designed for working professionals	
<p><i>Integrated M.Tech. (Computer Science and Engineering)</i></p> <p><i>Integrated M.Tech. (Electronics and Communication Engineering)</i></p>	<p><i>M.Tech. (Computer Science and Engineering (CSE) - 2 years)</i></p> <p><i>M.Tech. (Electronics and Communication Engineering (ECE) - 2 years)</i></p> <p><i>M.Sc. (Digital Society - 2 years)</i></p> <p><i>Sponsored M.Tech. (Computer Science and Engineering - 2.5 years)</i></p>	<p>Executive Post Graduate Programme in Data Science <i>Software Development Machine Learning & Artificial Intelligence</i></p> <p>Advanced Programme in Data Science</p> <p>Advanced Executive Program in Cybersecurity</p>	<p>Advanced Certificate Programme in Data Science <i>Machine Learning & Deep Learning Machine Learning & NLP in Big Data Cloud Computing Cybersecurity DevOps Blockchain</i></p>
<p>Post Graduate Research Programmes - both full-time and part-time (for working professionals)</p> <p><i>Master of Science by Research Ph.D</i></p>			

Faculty Members

IIIT Bangalore prides itself in setting the highest standards in the selection of its faculty members, most of whom have international qualifications. All full-time faculty members have a Ph.D. followed by considerable work/research and teaching experience in leading institutions around the world. With highly dedicated and accomplished faculty members, students get exposure to real-world experiences that are brought into the classroom. The faculty members at IIIT Bangalore are at par with the best in the country and other leading institutes across the globe.

The faculty members at IIIT Bangalore have published papers in around 250+ journals (both national and international). Some of them include *IEEE Systems Journal*, *The Journal of Organic Chemistry*, *American Journal of Engineering Education*, *Economic and Political Weekly*, *CSI*, *Journal of Computing*, *Telecom Business Review*, *Millennial Asia*, *Journal of the Ramanujan Mathematical Society*, *International Journal of Big Data Intelligence*, *The European Physical Journal E*, *MIS Quarterly* and more.

Diversity of Specialisations



University Exchange Programmes

IIIT Bangalore has a very active and vibrant international student exchange programme. Faculty work with their counterparts in leading international academic universities funded by organisations such as National Science Foundation, USA (NSF), European Union (EU), Netherlands Organisation for Scientific Research, Netherlands (NWO), Research Councils UK (RCUK) and the World Bank. Students get a chance to visit international universities and work on interesting research projects. These universities are spread over different continents, from North America to Europe to Asia. Most of the student visits to these prestigious universities have been fully funded either by IIIT Bangalore or the host universities.



Industry Collaboration

Since 1999, the industry has partnered with IIIT Bangalore and has played a crucial role in its growth. It has paved the way for research opportunities for both students and faculty members while engaging students as interns and sponsoring faculty research projects. Students gain exposure to the current trends and critical problems in the industry. IIIT Bangalore also offers short-term courses for industry professionals to promote their continued competence and career growth. The industry has accelerated the growth of the Institute in many ways:

- Providing adjunct faculty for teaching courses
- Offering internships and full-time placements
- Awarding student scholarships
- Engaging faculty members and students in joint research projects
- Sponsoring labs and software tools
- Supporting the Incubation Centre
- Sponsoring Chair professorships
- Supporting Centers of Excellence
- Funding corpus

Scholarships

The selection for award of scholarship is done by the sponsor's representatives based on the academic achievements and/or financial need and interview performance of the student. Typically, scholarships are given in two categories – merit-based and need-based. The merit scholarships are awarded based on a student's academic achievements, scholarly research activities, research publications. Need-based scholarships are awarded based on financial requirements.

AICTE
Based on
GATE Rank

**Institute
Scholarship**
Need-based and
Merit-based

**IIIT Bangalore
Alumni
Sponsored
Scholarship**
Need-based

Placements

- IIIT Bangalore has enjoyed 100 percent placements till 2020.
- The Median Salary of IIIT Bangalore students is one of the best in our country. IIIT Bangalore students receive some of the best compensation in the industry.
(The average compensation for 2021 graduates INR 25 Lakhs for CSE and INR 22 Lakhs for ECE)
- Our recruiters come from various domains such as E-Commerce, BFSI, Research & Development, IT Product, IT Services, Academics, Hardware, Networking and many more.
- Each year, over 100 top companies visit IIIT Bangalore to recruit our students.
- Every year some of our students who are interested in pursuing research have received admits to join top Universities and research groups such as Google Brain, Harvard, Microsoft Research and CERN.

RESEARCH

7 Research Domains

At IIIT Bangalore, the faculty members are strongly encouraged to pursue research agendas that are relevant to the industry and society at large. The faculty members take proactive interest in pursuing open research problems that are relevant to different stakeholders, not only as a means of supporting their own research, but also to act as a catalyst of change in the society.

Research at IIIT Bangalore is divided into "Research Domains" corresponding to academic streams in which specializations are offered. Each research domain comprises multiple faculty members, who manage their own lab and each research lab has its own custom infrastructure to suit their research agenda. IIIT Bangalore also showcases its research to the outside world through its annual research event titled *Research, Innovation, Society and Entrepreneurship (RISE)*.

Computer Science - Algorithms, Cryptography, Computational Biology, Computational Sustainability, Services Computing, Intelligent Transportation Systems, Optimisation, Artificial Intelligence, Natural Language Processing, Computer Architecture, Robotics, Feedback Control Systems, Computational Topology, Computational Geometry, Geometric Computation, Computational Modelling, Microprocessor Design, Geometric Algorithms, Discrete Geometry, Model Checking, Theorem Proving, Programme Analysis.

Data Sciences - Visual Analytics of Geospatial Data, Topological Data Analysis and Visualisation.

Software Engineering - Requirement Engineering, Software Testing, Verification and Validation, Model Checking, Theorem Proving, Software Architecture, Programme Analysis, Automated Assessment.

Mathematics & Basic Sciences -Chemistry:

Computational Chemistry, Electronic Structure Calculations, Structure & Energetics of van der Waals Complexes.

Mathematics: Number Theory; in particular, Algebraic Number Theory, Diophantine Equations, Galois Module Structure and Elliptic Curves.

Physics: Dynamical Systems Theory, Complex Systems and Soft Matter Physics including Complex Fluids, Cavitation & Bubble Dynamics, studies of Instabilities & Synchronization in Nonlinear Systems (both physical, biological, and polymeric systems); 3D Simulations and Modeling of Hydrodynamic and Magnetohydrodynamic Turbulent Flows (involving research in fundamental physics / astrophysics / mechanical engineering).

Networking, Communication & Signal Processing -

Software Defined Networking, Internet of Things, Network Optimization, Communication for IoT, Security and Privacy for IoT, Speech Processing.

VLSI Systems - Model Based Hardware-

Software Co-Synthesis of Embedded Systems, Assistive Wearable Medical Devices, Mixed-Signal Circuit Design, in particular high speed & resolution ADCs, Microprocessor Design.

Information Technology & Society -ICT for

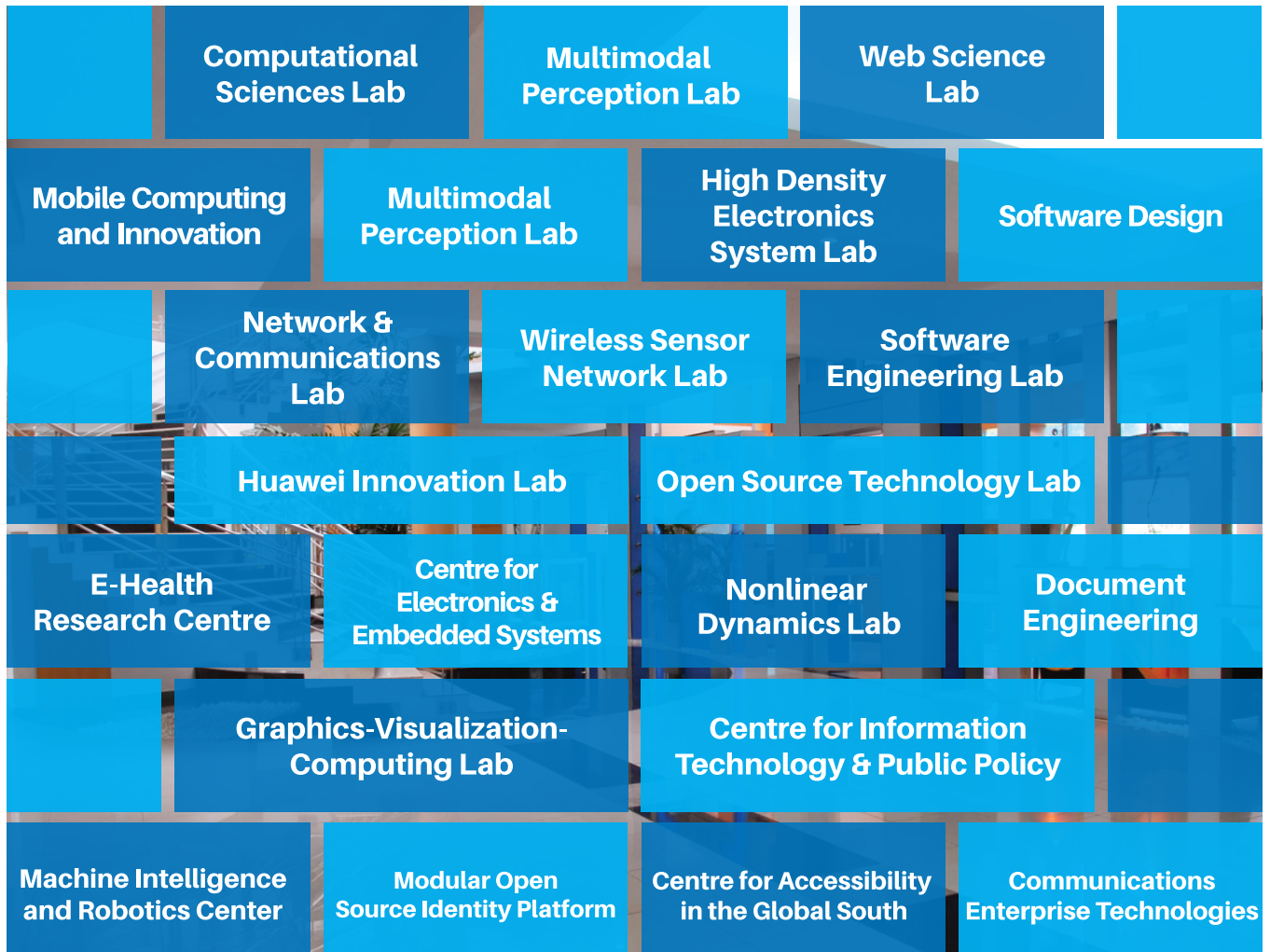
Development, Open Development, e-Governance, Biometrics and Digital Identities in Governance, Governance Analytics and Toolkits, ICT and Health (specifically related to aspects concerning household data, community/frontline workers and the public health system), Gender and ICTs, Social Media, Public Information Infrastructure, Innovation Systems in the ICT Industry, ICT and Work Practices in Organisations, Political Economy of Information.

High Points

There are various examples that showcase IIIT Bangalore's expertise in the research arena. Some of the notable achievements of the Institute are:

- Ramanujan, Math and IT (RMIT) Conference held annually.
- Annual Summer School on Theoretical Computer Science.
- EMPOWER Assistive Technology Conference held annually.
- Web Science for Development (WS4D) since 2019. It has participation from researchers in India, UK and US so far.
- ACM CODS COMAD, Premier Data Science Conference hosted by IIITB in 2021 & 2022.

Research Centres & Labs



Sponsored Projects

IIT Bangalore has strong research groups that have been developed in the years since attaining the deemed university status. The Institute has taken up research projects funded by notable organisations and institutes of repute.

Some of the ongoing projects of 2016-17 are sponsored by

- Microsoft Research Labs
- EMC India
- Science & Engineering Research Board, New Delhi
- Department of Electronics & Information Technology
- Indian Institute of Management IDEA Telecom Centre of Excellence (IITCoE)
- University of California, Irvine
- SIRC – Singapore Internet Research Centre
- Mphasis Limited, Bangalore
- TU Delft, The Netherlands
- Siemens Technology and Services Private Limited, Mumbai
- National Institute of Mental Health and Neurosciences (NIMHANS)
- DST - Young Scientist Scheme
- The Royal Academy of Engineering
- CISCO
- CGI
- DRDO Defence Project
- Board of Research in Nuclear Sciences (BRNS)
- Ministry of Social Justice and Empowerment (MSJE)
- Digital India Corporation, GoK
- Google Inc
- Tata Trust
- Omidyar Networks
- Bill and Mellinda Gates Foundation
- Norwegian Agency for Development Cooperation
- Oxford Internet Institute Workshop – FCRA
- University of Duesto
- IBM
- Gooru Labs R&D
- Sonata Software Ltd
- Facebook Research Grant
- Huawei Project ICT Innovation
- Fidelity

Infrastructure

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



Smart classrooms, with high-speed data networks



WiFi enabled campus



24x7 security



Separate hostels and gymnasium for both boys and girls



Uninterrupted power supply



Solar power panels



In-house Sewage Treatment Plant (STP)



90,000 sq. ft. of air-conditioned space

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



FOOD COURT



TENNIS AND BASKETBALL COURTS



AUDITORIUM



CLASSROOM

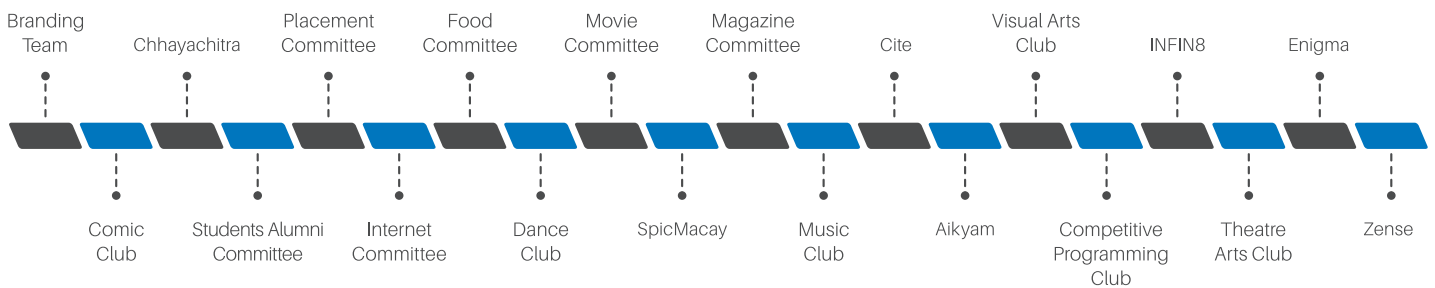
Campus Life

IIIT Bangalore has a thriving residential student community and a campus that features lush green lawns and a musical fountain, providing an ideal learning environment to stimulate intellectual and personal growth. Students forge great relationships and grow by joining various activity-based clubs, playing sports and truly enjoying their campus life.

The campus is diverse, energetic, and constantly alive. It reflects the dynamic aspect of the student community, with celebrations of regional festivals. The Institute has a relaxed, friendly atmosphere, but with a constant buzz of excitement.

Students get many opportunities to participate in conferences, seminars, guest talks, and to interact with many well-known and accomplished visitors, including Nobel laureates, renowned scientists, eminent persons from the industry, the government, and reputed institutions from around the world.

IIIT Bangalore believes that student clubs are an integral part of the total education programme. Students can join various clubs which provide forums for discussion and opportunities to pursue a particular interest, to celebrate culture or just to have fun!



SPORTS FACILITIES



MIME ACT



LIGHTING CRACKERS TO CELEBRATE DEEPAVALI



POOKALAM FOR ONAM CELEBRATION

Student Achievements

1000+ students (As on December 2021)

IIIT Bangalore has a proud history of garnering student recognitions in various spheres. The Institute helps each student set, strive for and achieve personal goals of excellence in all they do.

Students get opportunities to participate in various clubs and committees of the Institute, as well as in events and competitions around the country and internationally. Some of the recent notable student achievements are:

1st prize in stage play competition at **IISc** Bangalore on January 18, 2019.

2nd prize in a stage play competition at **IISc**, Bangalore on February 1, 2020.

1st **IBSA National Lawn Tennis Tournament** for the Blind championship in February, 2020

2nd prize in stage play competition at **BITS Pilani**, Hyderabad during March 22-24, 2019.

- Finalist in **ACM ICPC 2017** and 2018
- Represented India in **Airvolution 2017 by Air Asia**, competed against 20 teams from 10 nations
- 1st prize in Basketball in a sports event, **Olympiada by SIBM** on January 18, 2019.
- 1st prize in debate competition at **Rotary Club, Bangalore** on February 25, 2019.
- 11 girls selected for **GirlsScript Summer of Code (GSSoC)**, a month long open source programme.



Alumni

IIIT Bangalore alumni consisting of over 3,500 graduates (as on December 2021) are the true ambassadors of the Institute. They occupy key positions in major Indian and international corporations and are actively engaged in mentoring current students on the campus.

- ABB
- Amazon
- Apple
- ByDesign
- Cisco
- Cognizant
- Covansys
- Daimler Chrysler
- Dataweave
- Delphi
- D-Link
- Fiberlink
- Flipkart
- GE
- Google
- HP
- Huawei
- IBM
- i-flex Solutions
- Infosys
- Intel
- Microsoft
- Mathworks
- Morgan Stanley
- NetApp
- Novell
- Nvidia
- Oracle
- Qualcomm
- Sandisk
- Samsung
- SAP
- Sasken
- Sifive
- Sprinklr
- Tata Consultancy Services
- ThoughtWorks
- Rubrik
- Walmart
- Western Digital
- Wipro
- ZenSar Technologies

Innovation Centre

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

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



Incubation

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

Startups	60+	80+	New products/services brought to market
Full-time jobs created	300+	10+	Startups raised funding



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