CENTRE FOR CAREER DEVELOPMENT
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

JYOTI AND BHUPAT MEHTA SCHOOL OF HEALTH SCIENCES AND TECHNOLOGY

Batch of 2027 | Biomedical Science and Engineering

B.S · M.TECH · PHD

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INSTITUTE OVERVIEW

About IIT Guwahati

Established in 1994, Indian Institute of Technology Guwahati is the sixth member of the IIT fraternity and one of India's premier institutions for higher education, research, and innovation.

Within a short span, the Institute has emerged as a global centre of excellence in science, technology, management, and design.

The picturesque campus spans 285 hectares on the northern bank of the Brahmaputra River, approximately 20 km from the heart of Guwahati city.

Surrounded by scenic hills and open spaces, it offers a perfect environment for learning, research, and holistic development.

IIT Guwahati offers a wide array of academic programmes including B.Tech., B.Des., BSc (Hons), M.Tech., M.Des., M.Sc., MBA, M.A., MS(R) and Ph.D.

across 11 departments, 9 interdisciplinary centres, and 5 schools, covering major disciplines in engineering, science, humanities, healthcare, and management.

The Institute has built world-class infrastructure and houses state-of-the-art laboratories and National Centres of Research that support cutting-edge research.

Students are encouraged to take up interdisciplinary coursework, pursue minor degrees, and choose from a rich variety of open and interdepartmental electives.

IIT Guwahati has signed MoUs with top international universities, facilitating semester exchanges and summer internships, thereby broadening students' global exposure.

Our students regularly intern at leading global firms and research institutions, gaining invaluable real-world experience.

Ranked among the top 100 world universities under 50 years by Times Higher Education (THE), IIT Guwahati continues to excel globally.

The Institute was ranked 42nd globally in 'Research Citations per Faculty' and 344th overall in QS World University Rankings.



LEADERSHIP

Director’s Message



Indian Institute of Technology Guwahati was established in 1994 by an Act of Parliament. The academic programme started with 65 students in three undergraduate programmes in 1995. The institute is growing steadily and the total number of students in eleven departments, nine academic centres and five schools in numerous undergraduate and postgraduate programmes is now around 8600. The institute has excellent infrastructure for the all round development of its students. The institute has full-fledged Technology Incubation Centre and Research Park to promote entrepreneurship activities.

IIT Guwahati continues to maintain its superior position in various International and National Rankings. IIT Guwahati secured the 8th position among the top engineering institutions in India in the NIRF 2025 Rankings, released by the Ministry of Education.

Additionally, IIT Guwahati has been ranked as the 11th best university in the country. IIT Guwahati has been ranked 2nd in the 'Swachhata Ranking' conducted by the Govt. of India. IIT Guwahati has been ranked as the topranked university in 2019 for IT developers by HackerRank in the Asia-Pacific region. IIT Guwahati gained 42 position globally in the 'Research Citations per Faculty' category and overall 344 rank in the QS World University Rankings 2025 released recently. Also, IIT Guwahati ranks 6th globally in Sustainable Development Goal 7 (Affordable and clean energy) of the Times Higher Education Impact Rankings 2023.

The institute has a very good central library, which provides library and information services to support teaching, learning, and research activities by creating state-of-the- art facilities. It is housed on a four-storey building having a floor area of about 7500 sq. meter. Inhouse services of the library are fully computerised and wi-fi facility is provided within the library building for connecting to the internet and accessing the Institute's electronic resources. The sports facilities of the institute are of international standard. The students graduating from this institute are motivated, bright, and very eager to perform after they graduate.

IIT Guwahati has extensive facilities for cultural and creative activities too. For example, the Technical Board promotes technology, creativity and innovation. IIT Guwahati helps in shaping up bright minds with proper perspectives. IIT Guwahati hosts two supercomputing facilities PARAM-Kamrupa (838 TF) and PARAM- ISHAN (250TF) to carry out research activities in various scientific domains including forecasting of weather and climate, bioinformatics, computational chemistry, molecular dynamics, artificial intelligence (AI) and machine learning and especially data science.

Because of the excellent performance of the students of IIT Guwahati in all the fields of study and research, guided by the dynamic faculty members and with the full support of the non-teaching employees, IIT Guwahati could feature in the coveted list of young universities (under 50 years of age) of the world selected by the Times Higher Education (THE) magazine. IIT Guwahati is the only Indian entry to this elite list. I cordially invite all prospective employers to visit IIT Guwahati and to participate in the on-campus placement and internship processes.

With Best Wishes,

Prof. Devendra Jalihal

Director, IIT Guwahati

SCHOOL OVERVIEW

About the School

The Jyoti and Bhupat Mehta School of Health Sciences and Technology at IIT Guwahati, established in the year 2021, is funded by the Mehta Family Foundation under their initiative to create intellectual talent through global academic collaboration. Housed in a state-of-the-art G+9 / G+7 structure equipped with advanced cleanrooms and innovation labs, the school aims to train biomedical engineers to take leadership responsibilities in the health sector. The learning here is oriented to gain an interdisciplinary understanding of engineering, bio-chemical science, humanities, and design principles through hands-on experiences. The focus is to bring scientific and technologic innovation to support health science and allied areas.
JBMSHST is an important initiative at IIT Guwahati that bridges the gap of highly skilled personnel that exists in these emerging fields.



LEADERSHIP

Head of School's Message



The JBMSHST at IIT Guwahati aims to train biomedical engineers to take leadership responsibilities in the health sector. The learning methodologies of the school have been designed to gain understanding on the diverse areas of of engineering, biologicalchemical science, data analytics, and design principles through hands-on experiences. Thus, the students and scholars graduating from the school are strong in the fundamental areas of STEM and well-equipped with the basics of electronic-mechanical-bio instrumentations, circuits, devices, bioprocesses, and design principles through handson experiences in the laboratories. In the near future, scientists and engineers from all streams, doctors, designers, regulators, entrepreneurs, and policymakers will invent and innovate under this umbrella to inculcate cutting-edge research from this school. The focus here is to build up on the gen-next inventions and innovations that reduce import dependency and make the country self-reliant (Aatmanirbhar Bharat Abhiyan & Make In India).

With Best Wishes,

Dr. Subramani Kanagaraj

Head of School · Jyoti and Bhupat Mehta School of Health Sciences and Technology

LEADERSHIP

School Faculty Representative's Message



We at JBMSHST strongly believe in the values of continuous learning, determination, discipline, and a resultdriven, goal-oriented approach. Our students are among the brightest young minds, driven by innovation and committed to their professional and social responsibilities. They are equipped with strong leadership, team-building, and adaptability skills, preparing them to meet the dynamic needs of the corporate world. Our academic framework blends rigorous classroom learning with industry and technology exposure. We regularly invite distinguished speakers from academia, startups, and industry to provide our students with holistic perspectives, enabling them to build a strong foundation for successful careers. Students from diverse backgrounds such as Mechanical, Electrical, Electronics, Biotechnology, and Pharmacy undergo continuous evaluation and real-world case studies to sharpen their analytical abilities and develop problemsolving skills. Biomedical engineering is rapidly advancing in India, and the recruitment success of our last two batches reflects the trust leading corporates place in our students. As the Department Faculty Representative, I assure our unwavering commitment to nurturing future organizational leaders who will excel not only as innovators but as responsible citizens. We deeply appreciate the continued support of industry partners and look forward to strengthening these collaborative relationships. For any support or collaboration, we welcome you to connect with our department directly.

With Best Wishes,

Dr. Rajiv K. Kar

School Faculty Representative· Jyoti and Bhupat Mehta School of Health Sciences and Technology

ACADEMIC PROGRAMMES

Programmes Offered

Master of Technology (M.Tech) in Biomedical Science and Engineering Specialization in Medical Devices and Diagnostics (MDD)

ADMISSION VIA GATE

Designed to provide foundational and advanced knowledge in modern biomedical technologies. The curriculum covers medical diagnostic devices, BioMEMS, biosensors, biomedical electronics, instrumentation, and mathematical modeling. It emphasizes hands-on laboratory training, regulatory aspects, intellectual property rights, and clinical perspectives to innovate healthcare solutions.

Master of Technology (M.Tech) in Biomedical Science and Engineering Specialization in Regenerative Medicine, Stem Cells & Therapeutics (RMST)

ADMISSION VIA GATE

Focuses on advanced study modules including cell biology, tissue engineering, biomaterials, stem cell therapies, and nano-biomedicine. Students receive hands-on training in product design, prototyping, and bioprocessing laboratories to translate bio-research into novel therapeutic applications.

Doctor of Philosophy (PhD)

ADMISSION VIA WRITTEN TEST & INTERVIEW

Offers advanced research opportunities across interdisciplinary domains such as tissue engineering, in-vitro disease models, cancer biology, molecular biophysics, chemical biology, health data science, and quantum technology for healthcare applications.

Bachelor of Science (BS) in Biomedical Science and Engineering (Newly Introduced in 2025)

ADMISSION VIA IISER APTITUDE TEST (IAT)

A 4-year undergraduate degree designed to bridge engineering with biological sciences, healthcare, and clinical technology. It provides hands-on foundational training in electronics, mechanical instrumentation, cellular processes, bio-design, and health data analytics to prepare students for innovation in the medical devices and healthcare technology sectors.

STUDENTS

Student Strength

PROGRAMME	GRADUATING YEAR	STUDENTS
Master of Technology - Biomedical Science and Engineering	Batch of 2027	
— Specialization in Medical Devices and Diagnostics		19
— Specialization in Regenerative Medicine, Stem cells and Therapeutics		17
Total		36



ACADEMICS

Curriculum Highlights (M.Tech)

8 COURSES

Core courses

- Introduction to Cellular Processes
- Basic Physiology for Clinical Immersion
- Biomedical Electronics and Instrumentation
- Basics of Mathematical Modelling and Simulation
- Research Methodology, Ethics, IPR, Biosafety
- Tissue Engineering and Regenerative Medicines
- Stem Cells and Therapeutics
- Medical Diagnostic Devices, BioMEMS, Biosensor

5 ELECTIVES

Electives

- Regulatory Affairs of Biomedical Devices
- Data Science for Biomedical Engineering
- MRI system, application: Hardware to diagnostics
- Biomicrofluidics
- Biomedical Devices

3 LABS

Laboratory courses

- Biotechniques & Bioinstrumentation Laboratory
- Product Design and Prototyping Laboratory
- Regenerative Medicine & Stem Cells Laboratory
- Devices and Diagnostics Laboratory

PEOPLE

Faculty

CORE FACULTY

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Dr. Harshal B. Nemade (EEE) Head EEE · Ultrasonic sensors| MEMS | Instrumentation design	harshal@iitg.ac.in iitg.ac.in/~harshal
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Research

Research Areas

JBMSHST fosters interdisciplinary research at the intersection of engineering, biological-chemical sciences, design, and data analytics. The school focuses on delivering translational technologies, indigenous innovations, and cutting-edge healthcare solutions to reduce import dependency and promote affordable medical technology.

The research ecosystem integrates multi-scale approaches ranging from fundamental molecular dynamics and computational biophysics to prototype fabrication and clinical validation. Faculty and scholars collaborate across state-of-the-art facilities, including cleanrooms and microfluidics labs, to develop point-of-care devices and novel therapeutic platforms.

Strong focus is given to commercialization through active patents, industry incubation, and partnerships with clinical and industrial collaborators. Primary initiatives address major global and national health challenges, including diabetes management, infectious diseases, regenerative medicine, and digital health analytics.

Thrust areas

Medical Devices, Bioinstrumentation & Diagnostics

Description:

- Point-of-Care Biosensors: Microfluidic platforms, electrochemical and optical sensors for rapid pathogen and disease biomarker detection.
- Biomedical Instrumentation: Low-cost diagnostic tools, BioMEMS, and non-invasive monitoring electronics.
- Prosthetics & Biomechanics: Design of artificial limbs, ergonomic medical tools, and biomechanical transport modeling.

Regenerative Medicine, Stem Cells & Biomaterials

Description:

- Tissue Engineering & 3D Bioprinting: Bio-ink formulations (e.g., silk-based materials) for wound healing and organoid modeling.
- Therapeutics & Drug Delivery: Targeted delivery vehicles, site-specific protein modifications, and phytochemical screening.
- Stem Cell Research: Disease modeling, expanded genetic code applications, and cancer stem cell biology.

Digital Health, Computational Biology & Molecular Systems

Description:

- Health Data Science & AI: Health data analytics, privacy-preserving data sharing, and AI for predictive clinical insights.
- Molecular Biophysics & Simulation: Computational modeling of biomolecules, drug-target interactions, and chemical biology.
- Emerging Technologies: Quantum applications in healthcare and digital mental health interventions.

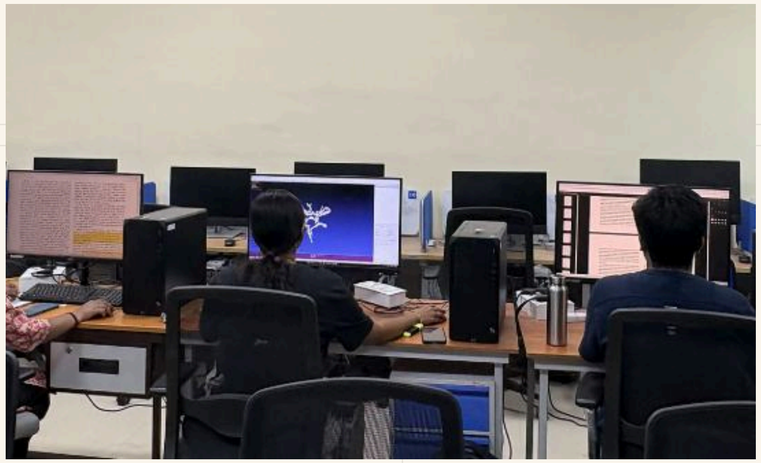
INFRASTRUCTURE

Laboratories & Facilities



Medical Devices and Diagnostics

The Medical Devices and Diagnostics track at JBMSHST focuses on developing accessible, point-of-care (POC) technologies that bring accurate medical testing and intervention closer to patients, from biosensors and diagnostic devices to minimally invasive surgical tools.
The lab work at the intersection of biomaterials, nanotechnology, AI/ML-driven data analytics, and integrated sensor design to translate lab-scale innovation into deployable healthcare solutions.



Department Computer Lab

The computational nerve center of JBMSHST — where biomedical questions are modeled, simulated, and analyzed through code before stepping into a wet lab. Students and researchers use the lab for finite element simulations in COMSOL Multiphysics, data analytics and statistical modeling, and AI/machine learning applications spanning diagnostics, biomarker discovery, and computational biology.



Biomaterials and Tissue Engineering

The lab develops advanced biomaterials and 3D-bioprinted tissue constructs to address regenerative medicine challenges , rom organ-mimicking models for drug screening to implantable scaffolds for tissue repair.
Its work spans silk-based biomaterials, bioprinting, and translational technologies, several of which have moved from lab research into licensed industry products.

INFRASTRUCTURE

Laboratories & Facilities



Biotechniques and Bioinstrumentation

This lab introduces students to the core experimental techniques and instrumentation used in biomedical science and engineering, bridging fundamental biology with the tools used to study it. Students gain hands-on experience with standard biotechniques (sample preparation, biomolecule analysis, cell/tissue handling) alongside the instrumentation used to control, monitor, and measure biological processes in a lab setting.



Product Designing and Prototyping lab

As part of hands-on training in biomedical instrumentation, students in this lab design and build their own working prototypes of biomedical devices — translating theoretical device concepts into functional hardware. The practical emphasizes the full product-development cycle: from identifying a design problem to building, testing, and refining a working prototype, giving students direct experience with the kind of engineering that goes into real point-of-care and diagnostic devices.



Regenerative Medicine and Stem cells Lab

This lab builds foundational and applied expertise in cellular and molecular techniques underlying human health and disease. Students work with core methods for studying gene regulation, signaling pathways, and cellular processes, integrating molecular biology, biochemistry, and cell-based experimental approaches central to biomedical research.

RECOGNITION

Achievements

School distinctions



SWASTHA Project & Nanotech Clean Room Inaugurated

2024 · IIT GUWAHATI / CENTRE FOR NANOTECHNOLOGY

JBMSHST, in collaboration with the Centre for Nanotechnology, inaugurated the SWASTHA Project alongside ISO 5/6 clean room facilities shared infrastructure supporting biomedical device development and nanotech-driven healthcare research.



Co-Organized UNNATI

JAN 2024 · 1ST ANNUAL CONFERENCE ON ALLIED HEALTH PROFESSIONALS

JBMSHST co-organized UNNATI, the inaugural national conference on allied health professionals, convening practitioners and researchers to advance training standards and practice in allied healthcare.



Healthcare Transformation MoU Signed

2024 · IIT GUWAHATI, TATA MOTORS' MD & GATE FOUNDATION

IIT Guwahati signed an MoU with Tata Motors' Managing Director and the GATE Foundation to launch a Primary and Secondary Healthcare Transformation Pilot, positioning JBMSHST at the center of a translational public-health initiative.



Hosted ICANN 2023

2023 · JBMSHST, WITH CENTRE FOR NANOTECHNOLOGY

JBMSHST, together with the Centre for Nanotechnology, hosted the 8th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN), bringing together international researchers and reinforcing IIT Guwahati's growing role as a nanotech-biomedical research hub.

RECOGNITION

Achievements

Faculty distinctions



DR. S. KANAGARAJ (HEAD OF SCHOOL)

- Heads the School of Innovations in Biomedical Devices and Systems & Inter-Institutional Biodesign Center (SIBDS-IIBC), running a DBT-funded Biodesign Fellowship since 2023
- Co-PI on ₹1.50 Cr ANRF-PAIR Project for healthcare AI & smart systems.
- Awarded ₹69.36 Lakh Joint ICMR "First in the World" Grant with AIIMS Guwahati for minimally invasive cardiac massager devices.



DR. BIMAN B. MANDAL

- Fellow of the Royal Society of Biology (FRSB) & Royal Society of Chemistry (FRSC); DST Swarnajayanti Fellow
- National Bioscience Awardee; Top Cited Author Award (IOP Publishing, 2023); Past President, STERMI
- ~17–23 patents (incl. multilayered silk scaffolds for meniscus tissue engineering); 3 technologies licensed to industry
- 140+ publications, 5,300+ citations, H-index 38



DR. RAJIV KUMAR KAR

- Major Grants: PI for ₹1.99 Cr ICMR (POC Cervical Cancer Screening), ₹1.50 Cr ANRF-PAIR (AI/Smart Healthcare, w/ Prof. Kanagaraj), ₹55 Lakh ICMR (HPV/Cervical Cancer in HIV+ Women), & ₹15 Lakh IITG SuG (Graphene Metabolic Sensors).
- Research Impact: Led Nov 2023 Cys-GO study featured across national media (PTI, Careers360, BioSpectrum).
- Talks & Panelist: SYNAPSE AI & Molecular Oncology panelist; invited talks at IIT Bhubaneswar & IISc Bangalore (MeitY demo, March 2025).



DR. RAJU BEJ

- Awarded ₹71.4 Lakh ANRF-PMECRG Grant for mucin-inspired high-molecular-weight biomaterials.
- Approved for ₹20 Lakh IITG SuG Grant for dynamic hydrogels mimicking cervical mucus.
- Speaker at first-ever ACS-sponsored Global Scientific Conference in India (IIT Bombay); attended ACS on Campus, March 2025
- Reviewed an FWF (Austrian Science Foundation) grant on hydrogel stability and permeability, June 2025



DR. ERWIN FUHRER

- Delivered invited talk on "Point-of-Care Diagnostics in Smart Cities & Villages: Low-Field MRI" at International Smart City Workshop 2025
- Invited talk on "Sensor Technology", 22nd April 2025, Don Bosco University, Guwahati.
- Awarded ₹179.5 Lakh AGHIF Grant as PI for Low-Field MRI R&D Unit for Point-of-Care diagnosis.
- Approved for ₹20 Lakh IITG SuG Grant for closed-loop gain control in low-field MRI.



DR. RAHUL AGARWAL

- Granted an Indian patent for a point-of-care rapid blood and body fluid counting kit, building on his published work on a portable spinning disc for complete blood count (Biosensors and Bioelectronics, 2020, IF 12.5)
- Approved for ₹46.5 Lakh DHR Grant as PI for point-of-care pre-eclampsia blood viscometer.
- Approved for ₹20 Lakh IITG SuG Grant for pathogen dynamics at micro-scale.

RECOGNITION

Achievements

Student distinctions



SWETHA G (M.TECH 2027)

- Awarded the prestigious DAAD KOSPIE Scholarship (2026–27), funding her M.Tech thesis research at RWTH Aachen University, Germany.



STUDENTS SHINE AT THE MEDTECHNOVA HACKATHON (2025)

- JBMSHST students swept both top prizes at the 4-day hackathon (8–12 Oct 2025, hosted with RIC IIT Guwahati, NewGen IEDC, SIBDS-IIBC & AIIMS Guwahati):
- 1st Prize : Team Optimist (1st Year BS)
- 2nd Prize : Team Clinovators (2nd Year M.Tech).

Scholarships & Fellowships

- **Shubham Agrawal** : Selected for the Khorana Program for Scholars; awarded the Reliance Foundation Postgraduate Scholarship.

Travel Grants

- **Arpan Kotal :** Secured a DBT-CTEP International Travel Grant and an Anusandhan National Research Foundation (DST) travel grant, both for attending ACS Spring 2025, San Diego
- Received Affiliate Membership of the Royal Society of Chemistry for a best oral presentation.

Startups & Grants

- **Sahil Jagnani & Ankit Chowdhuri :** BIRAC Ignition Grant; Top 3 Startup in Healthcare; Top 20 Finalist in Quest for Healthcare Innovation.

North East Social Summit (2025)

- **Manjeera PSK, Nivedhya Suresh, Karthikeyan Kandhan (M.Tech) :** 2nd Prize (₹20,000 cash) in "The Policy Maker" social case study competition, North East Social Summit, Alcheringa'25 (31 Jan–2 Feb 2025, IIT Guwahati).

Conference & Presentation Awards

- **Plaboni Sen :** Won the Asima Chatterjee Memorial Award for Best Researcher at the 7th World Cancer Congress (Bangalore, 2022).
- **Sheetal (PhD Scholar) :** Best Oral Presenter at ICANN 2023 (8th International Conference on Advanced Nanomaterials and Nanotechnology); also won Best Poster at the INUP-i2i Offline Familiarization Workshop.
- **Arpan Kotal (PhD Scholar)** : Presented at Frontiers in Nanomaterials Sciences (FINS 2K24), NIT Patna (Dec 2024) and ACS Spring 2025, San Diego (March 2025, oral presentation on graphene surface chemistry).
- **Raksha Ray (M.Tech) :** Poster presentation at ICPBS 2025, NIPER Ahmedabad (March 2025), on an AI-driven model + chitosan hydrogel for antibacterial applications.

STUDENT LIFE

Student Activities

At JBMSHST, learning doesn't stop at the lecture hall. Students spend their days building working biomedical device prototypes, running hands-on experiments in fully-equipped labs, and turning coursework into real, curriculum-integrated research. Outside the lab, that same energy carries into hackathons, case-study competitions, and startup pitches — turning ideas into prototypes, and prototypes into recognition.

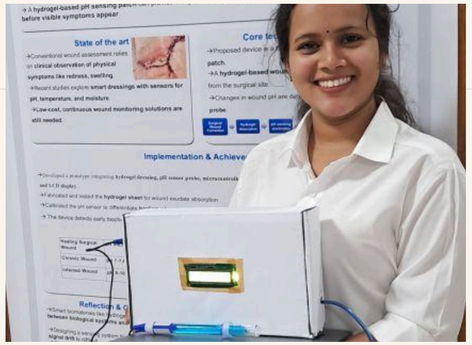
LAB AND CURRICULUM



PRODUCT DESIGN AND PROTOTYPE LAB



CLEAN ROOM



COURSE PROJECT BIOMEDICAL DEVICES



ATTEND VARIOUS PROGRAMS LIKE ONE HEALTH

Beyond the Classroom



FAREWELL 2026



FRESHERS 2025



ALCHERINGA'25 CASE STUDY WIN



MEDTECH NOVA 2025

PLACEMENTS

Past Recruiters

Deloitte.

HRS NAVIGATION

Lilly
A MEDICINE COMPANY

TATA ELXSI

Universal Sompo
General Insurance Co. Ltd.

bioradmedisys™
science for people

strand
New Generation Healthcare

Miraclus®
Implanting LIFE

LOOIM™
infinite possibilities. finite results.

arthmate
Enabling Entrepreneurs

TURING

be10X

DECISION POINT

PRIMARY HEALTHTECH

NITI
NEET-JEE Academy

ReMeDi
Enabling Healthcare. Anytime. Anywhere.

Neurosynaptic Communications

STARTOON LABS
IDEATE . INNOVATE . INSPIRE

CCD · CORE TEAM

Meet Our Team



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CCD · STUDENT TEAM

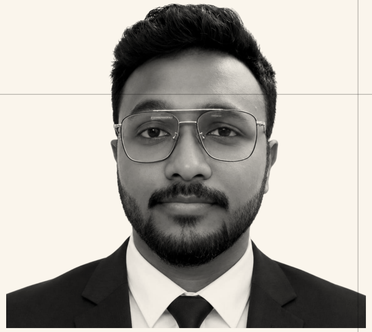
Lead Student Coordinators



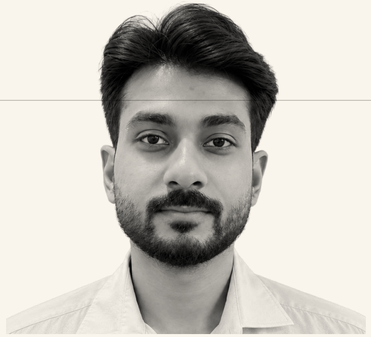
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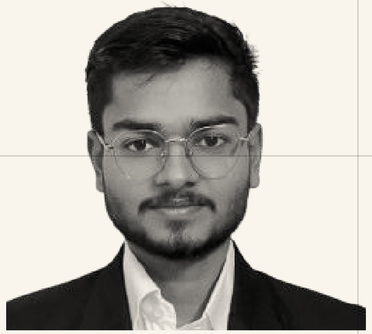
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CCD · STUDENT TEAM

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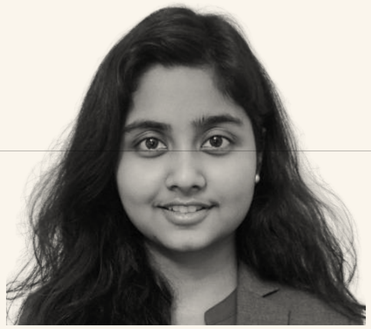
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We would be glad to host your team on campus. Reach the Centre for Career Development through any of the channels below.

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