



Inventing &
Innovating in
Technology for
Humanity (IITH)

Indian Institute of Technology Hyderabad Brochure 2024



NIRF
(INNOVATION)

#3

NIRF
NATIONAL-ENGINEERING

#8

QS
(GLOBAL - OVERALL)

**681-
690**

NIRF
(NATIONAL - OVERALL)

#12

NIRF
NATIONAL - RESEARCH

#15

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Dear Friends,

I wish and hope that you are experiencing a joyful and wonderful time, with a thriving and enriching journey in the vibrant collaborative environment of IITH.

IITH has boosted its overall NIRF ranking to 12 from 14 of last year. Being ranked 8th among Engineering Institutes and 3rd in Innovation for the second consecutive year is a testament to our commitment to excellence, cutting-edge research and innovative ecosystem. In QS World Ranking-2025, IITH is placed at 681-690 in QS Global and is at 73 in the QS Asia rankings and has three of its departments (Physics, Computer Science & Engineering and Mechanical & Aerospace Engineering) listed in the subject rankings. In placements, IITH saw over 500 offers, including 43 international and 87 Pre-Placement offers. Despite the global economic slowdown, the institute received a good number of offers and industry participation, showcasing its dedication to academic excellence and industry connections.

Inspired by Hon'ble Prime Minister, Shri Narendra Modi Ji's advocacy of "Vasudhaiva Kutumbakam," which means "the world is one family," we have embraced this ancient principle by offering several courses on virtual platforms through Open to All Teaching (OAT) scheme. These courses aim to upskill and reskill everyone globally, fostering a seamless exchange of knowledge and ideas among students and faculty.

IITH offers a Joint Doctoral Program (JDP) with Swinburne University (Australia), Deakin University (Australia), Kathmandu University (Nepal), and National Tsing Hua University (Taiwan). 119 students visited various universities through Student Exchange programs, Internships, Jointly Supervised PhD and JDP programs. Programs like FIRST, ICCR, and Study in India (SII) facilitate admissions for foreign students at IITH.

We are committed to providing the best platform for core and auxiliary research, propelling the institute towards excellence in research and technology development. To nurture and propel the research and innovative spirit of our academic and research community, we have established a robust framework of guidelines and infrastructure.

As a result, IITH currently boasts over 11,400+ research publications with 170,000+ citations, and approximately ₹1270+ Cr research funding.

We are proud to announce that our faculty members are among the top 2% of world-renowned scientists, as published by Stanford University (SU) and Elsevier. It's inspiring to see our dedicated young faculty excelling and publishing in high-quality journals. The list is categorized into two groups: 11 faculty members recognized for their career-long research and 23 faculty members acknowledged for their research in 2023.

Our alumni make significant contributions across various fields and actively give back to the institute. Many hold faculty positions in prestigious institutions such as IITs, NITs, and IIMs, helping to shape future generations and advance education and research. IITH also has a foundation in the US to facilitate alumni contributions.

IITH fosters a vibrant Innovation and Entrepreneurial Ecosystem to support startups at various stages. At IITH, the entrepreneurial support for students ranges from BUILD (Bold and Unique Ideas Leading to Development) projects to a semester break with 6 credits to pursue their innovative ideas, to providing a diploma at the end of their second year of undergraduate studies, with an option to return to IITH and complete their degree within 5 years. Over the past six years, we have supported more than 190 startups, creating over 1,100 jobs, and generating more than ₹1,500 crore in revenue. We launched the IITH-Greenko BUILD program, aimed at supporting 75 student winners nationwide in their early idea validation journey through financial and mentoring assistance.

Passion and dedication of IITH community are the driving forces behind these impressive achievements. Our environment fosters innovation, supports continuous improvement, and helps us attain top rankings. We are committed to creating an ecosystem that nurtures our students to become global leaders, contributing to a "Viksit Bharat" through our motto "Inventing & Innovating in Technology for Humanity (IITH)"

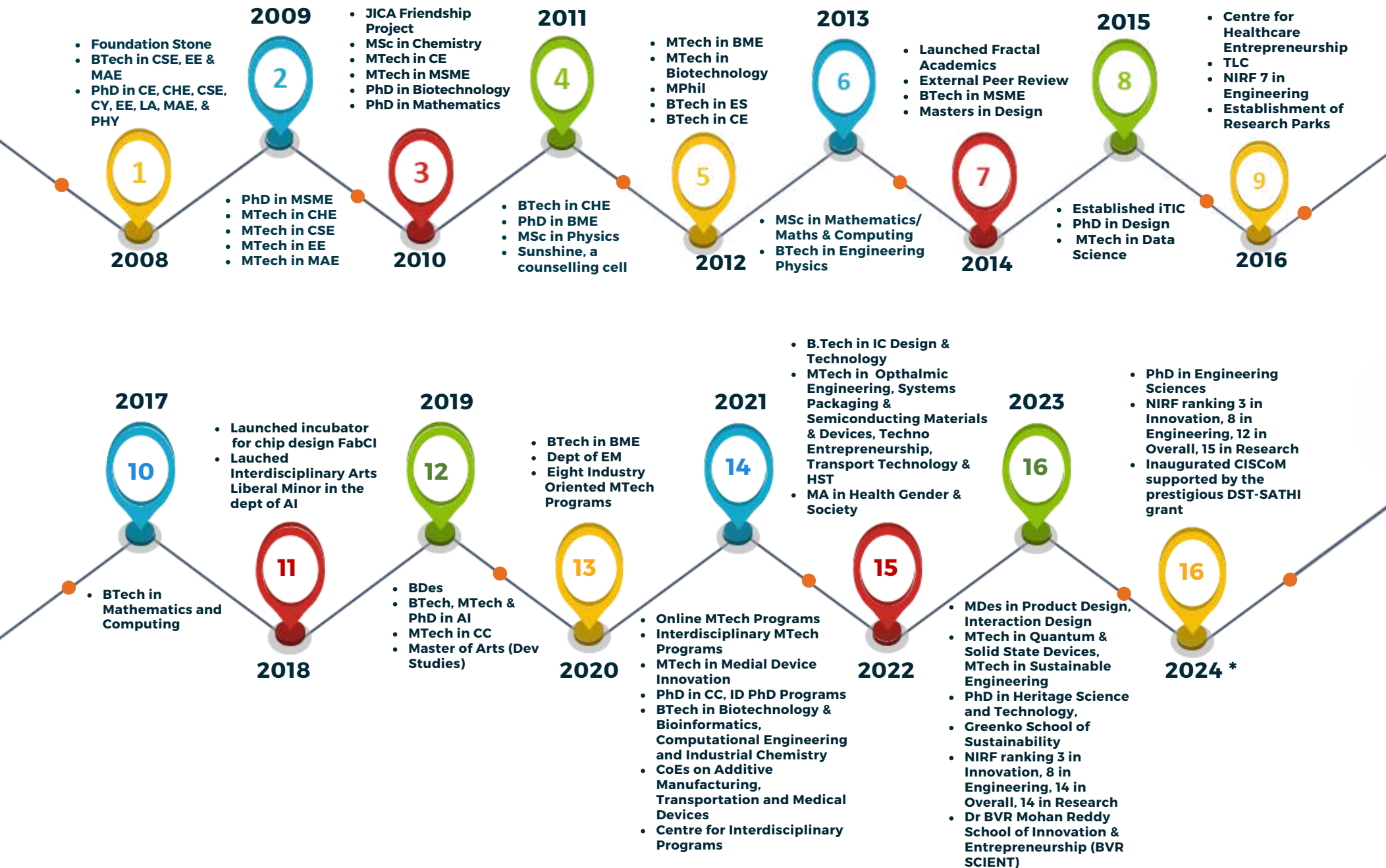


Prof B S Murty

Director, IIT Hyderabad

"Innovation distinguishes between a leader and a follower"
- Dr. A.P.J. Abdul Kalam

IITH's Journey so far





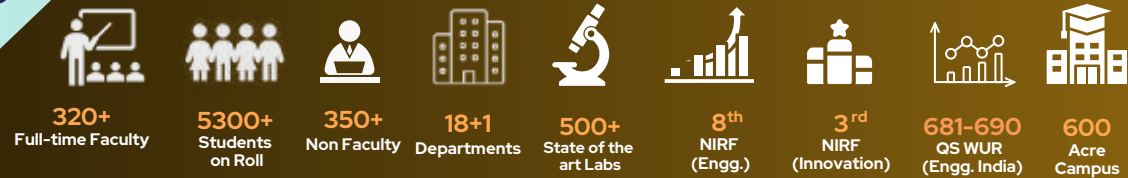
Vision

IITH will be the cradle for inventions and innovations. It will advance knowledge and scholarship to students in science, technology and liberal arts, and equip them to handle the challenges of the nation and the world in 21st century.

Mission

To be recognized as ideators and leaders in higher education and research, and to develop human power with creativity, technology and passion for the betterment of India and humankind.

Academics



Collaborations



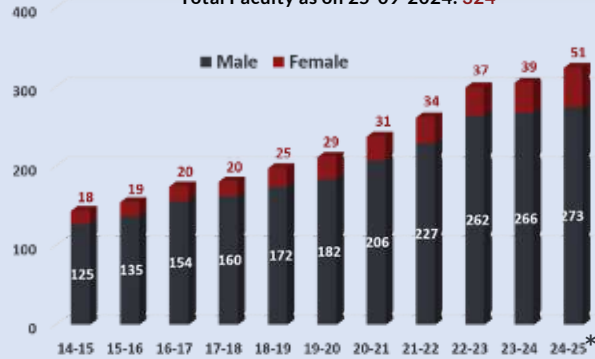
Research



Academics & Research

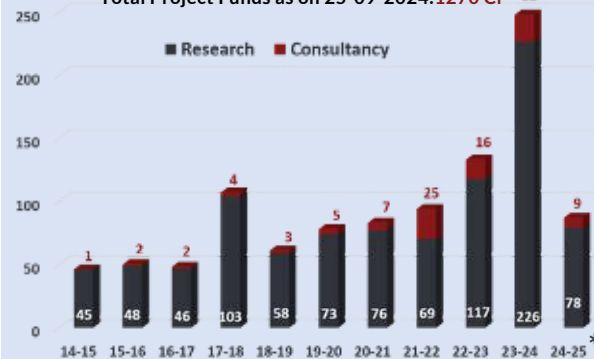
Faculty

Total Faculty as on 25-09-2024: 324



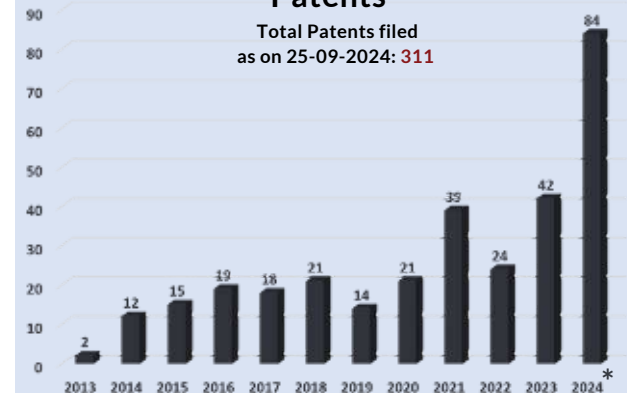
Project Funds (₹ in Cr)

Total Project Funds as on 25-09-2024: 1270 Cr



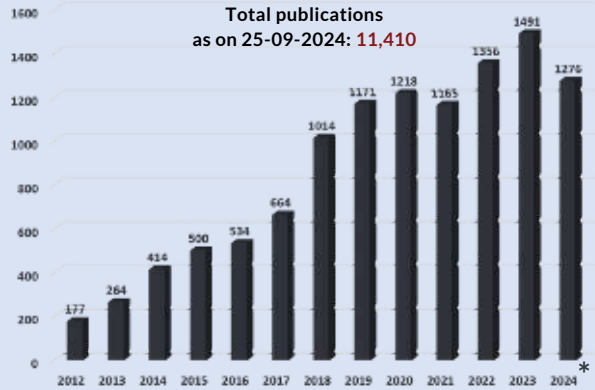
Patents

Total Patents filed as on 25-09-2024: 311



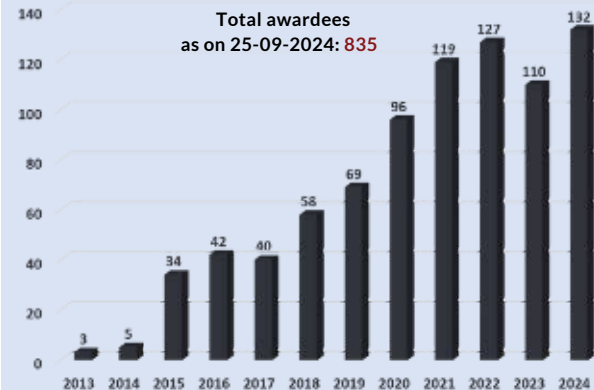
Publications

Total publications as on 25-09-2024: 11,410



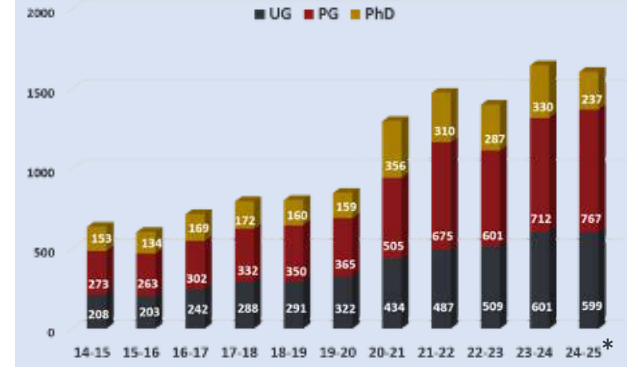
PhD Awarded

Total awardees as on 25-09-2024: 835

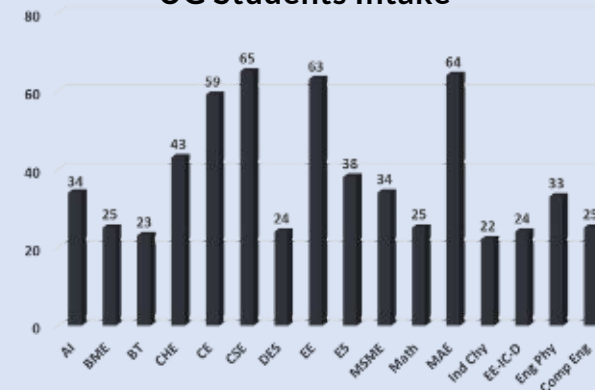


Students Intake

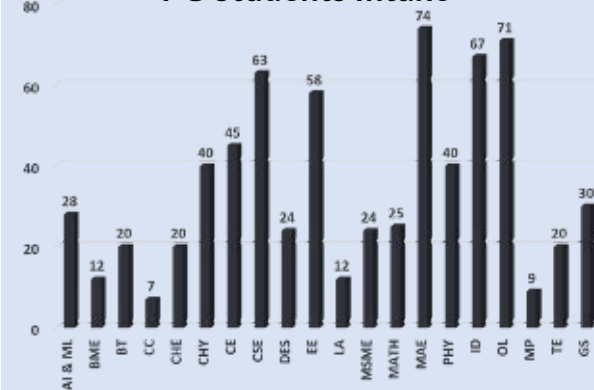
Total students intake for the year 2024 as on 25-09-2024: 1603



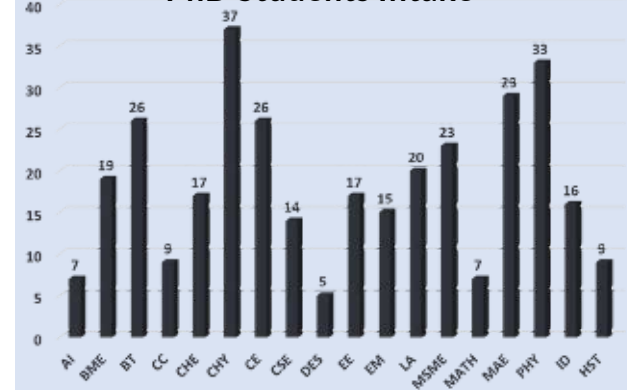
UG Students Intake



PG Students Intake



PhD Students Intake



- AI Artificial Intelligence
- BME Biomedical Engineering
- BT Biotechnology
- CHE Chemical Engineering
- CE Chemistry
- CSE Civil Engineering
- ES Engineering Science
- MSME Materials Science & Metallurgical Eng.
- MATH Mathematics
- MAE Mechanical & Aerospace Eng.
- Ind Chy Industrial Chemistry
- EE-IC-D & T EE-IC Design & Technology

- Comp Eng Computational Eng
- AI & ML Artificial Intelligence & Machine Learning
- CC Climate Change
- CHY Chemistry
- LA Liberal Arts
- PHY Physics
- OL Online
- MP Medical Physics
- TE Techno-Entrepreneurship
- GS Greenko School of Sustainability
- EM Entrepreneurship & Management

- DES Design
- EE Electrical Engineering
- Eng Phy Engineering Physics
- HST Heritage Science & Technology

*as on 25.09.2024

Major Research/ Thrust Areas



5G & Next Generation Communication Technologies



Catalysis



Integrated Computational Engineering



Artificial Intelligence



Additive Manufacturing



Climate Change and Sustainability



Nano-Technology



Smart mobility




Rural Development




Energy



Sensors and Devices



Robotics



Transportation



Health Care



Waste to Wealth Management



Bio-inspired Processes and Systems

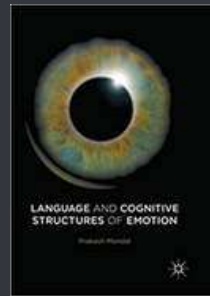


Materials Characterization

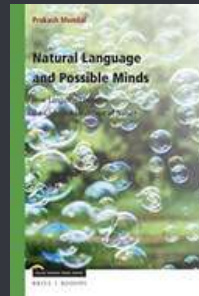
Books Published



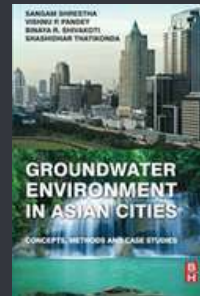
Dr Prakash Mondal
Dept of LA



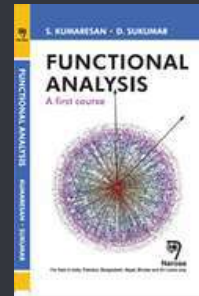
Dr Prakash Mondal
Dept of LA



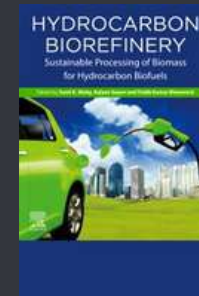
Dr Prakash Mondal
Dept of LA



Prof T Shashidhar
Dept of CE



Dr Sukumar D
Dept of MATH



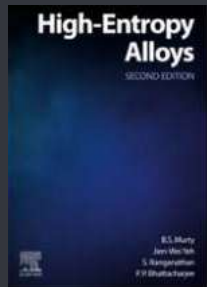
Prof Sunil K Maity
Dept of CHE



Dr Rekha Raja
Dept of AI



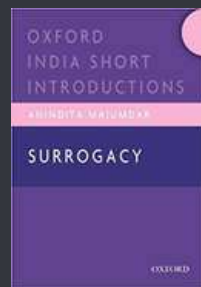
Dr Ankita Roy
Dept of Design



Prof B S Murty & Prof P P
Bhattacharjee
Dept of MSME



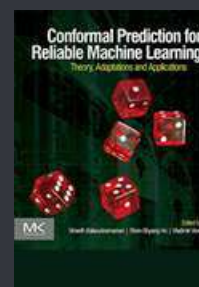
Dr Chandan Bose
Dept of LA



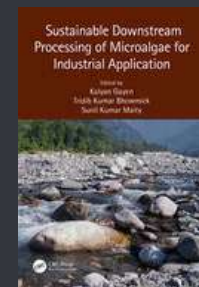
Dr Anindita Majumdar
Dept of LA



Dr Anindita Majumdar
Dept of LA



Dr Vineeth N B
Dept of CSE



Prof Sunil K Maity
Dept of CHE



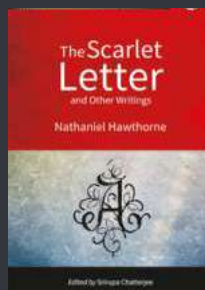
Dr Srirupa Chatterjee
Dept of LA



Prof Prem Pal
Dept of PHY



Dr Chandra Shekhar
Sharma, Dept of CHE
Dr Mudrika Khandelwal,
Dept of MSME



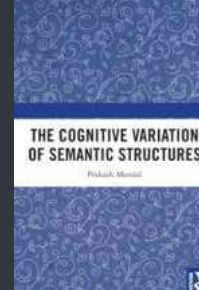
Dr Srirupa Chatterjee
Dept of LA



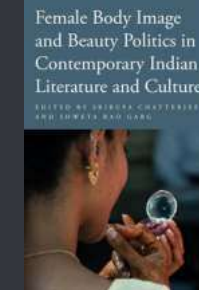
Dr Amrita Dutta
Dept of LA



Dr Falguni Pati
Dept of BME



Dr Prakash Mondal
Dept of LA



Dr Srirupa Chatterjee
Dept of LA



Dr Deepak John Mathew
Dept of Design

[Click here for More Publications](#)

Undergraduate Programs



Departmental Programs :

- Artificial Intelligence
- Biomedical Engineering
- Biotechnology and Bioinformatics
- Civil Engineering
- Chemical Engineering
- Computer Science & Engineering
- Electrical Engineering
- Electrical Engineering (IC Design & Technology)
- Engineering Science
- Industrial Chemistry
- Materials Science & Metallurgical Engineering
- Mathematics & Computing
- Mechanical & Aerospace Engineering
- Engineering Physics

Center of Excellence :

- Computational Engineering

Bachelors of Design

- BDes

Master of Science (MSc)

Chemistry

- Chemistry

Mathematics

- Mathematics
- Mathematics and computing

Physics

- Physics

CIP (Inter Disciplinary Program)

- Medical Physics(with Basavatakam Oncology Inst.)

Postgraduate Programs

Regular MTech/MDes

Artificial Intelligence

- Artificial Intelligence

Biomedical Engineering

- Medical Sensing, Analytics & Simulation
- Nanomedicine & Biomaterials

Biotechnology

- Medical Biotechnology

Climate Change

- Climate Change

Civil Engineering

- Structural Engineering
- Environmental Engineering
- Hydraulic & Water Resource Engineering

Engineering

- Geotechnical Engineering
- Transportation Engineering

Chemical Engineering

- Chemical Engineering

Computer Science and Engineering

- Computer Science & Engineering
- Network & Information Security

Design

- Visual Design
- Product Design
- Interaction Design

Electrical Engineering

- Communications and Signal

Processing & Learning

- Microelectronics and VLSI
- Power Electronics and Power

Systems

- Systems and Control

Entrepreneurship and Management

- Techno Entrepreneurship

Materials Science & Metallurgical Engineering

- Materials Science & Metallurgical Engineering
- Semiconductor Materials and Devices

Mechanical & Aerospace Engineering

- Mechanics and Design
- Integrated Design and Manufacturing
- Thermo-Fluid Engineering
- Aerospace Engineering

Physics

- Quantum & Solid State Devices

CIP (Center for Interdisciplinary Programs)

- Additive Manufacturing (With DRDO)
- Integrated Circuits and Microsystems Packaging
- Integrated Sensor System
- Medical Device Innovation (With AIG)
- Polymers and Biosystems Engineering
- Smart Mobility (With TIHAN)
- Ophthalmic Engineering (With LVPEI) Lightweighting Engineering

GSS (Greenko School of Sustainability)

- Sustainable Engineering
- E-Waste Resource Engineering and Management (with CMET)
- Energy Science and Technology

Online MTech/MDes Programs

Computer Science and Engg.

- Data Science

Design

- MDes by Practice

Heritage Science and Technology

- Heritage Science and Technology

Mechanical and Aerospace Engg.

- Computational Mechanics

Materials Science and Metallurgical Engg.

- Industrial Metallurgy

CIP(Inter Disciplinary Program):

- Integrated Computational Materials Engineering
- EV Technology

Master of Arts (MA)

Liberal Arts

- Development Studies
- Health, Gender & Society

PhD Disciplines

Departmental Programs :

- Artificial Intelligence
- Biomedical Engineering
- Biotechnology
- Chemical Engineering
- Chemistry
- Civil Engineering
- Climate Change
- Computer Science & Engineering
- Design
- Electrical Engineering
- Engineering Science
- Entrepreneurship and Management
- Heritage Science and Technology
- Liberal Arts
- Materials Science & Metallurgical Engineering
- Mathematics
- Mechanical & Aerospace Engineering
- Physics
- Center for Interdisciplinary Programs
- Greenko School of Sustainability

Interdisciplinary Program :

- Artificial intelligence, computing, communications & networks
- Bioengineering & Healthcare
- Energy, environment, creative design & Management
- Novel materials & computational techniques
- Soft and Active Matter & Mechanics of materials

Distinguished Professors



Prof Chennupati Jagadish
Head of Semiconductor Optoelectronics
& Nanotechnology group,
Australian National University



Prof Christopher C Berndt
Professor, Dept of Mechanical Eng &
Product Design Eng,
Swinburne University of Technology, Australia



Prof Jun Murai
Professor & Dean of Graduate School
of Media and Governance
Keio University, Japan



Prof J N Reddy
Professor, Mechanical Engineering
Texas A&M University, USA



**Prof James Francis
Antaki**
Professor, Cornell Engineering, USA



Dr Mallikarjun Tatipamula
Chief Technology Officer
Ericsson Silicon Valley, USA



Prof Nobuhiro Tsuji
Graduate School of Engineering
Kyoto University, Japan



Prof Nemkumar Banthia
University Killam Professor, The
University of British Columbia, Canada



Dr Omkaram Nalamasu
CTO and Senior Vice President
Applied Materials, USA



Dr Pulickel M Ajayan
Benjamin M & Mary Greenwood
Anderson Professor of Engineering
Rice University, USA



Dr Paresh Kumar Narayan
Professor, Monash Business School
Monash University, Australia



Prof Rohini M Godbole
Professor
IISc Bangalore, India



Prof Rao R Tummala
Distinguished & an Endowed Chair
Professor, Georgia Institute of
Technology, Atlanta, USA



Dr Rao Surampalli
President and CEO of Global Institute
for Energy, Environment & Sustainability
Lenexa, Kansas, USA



Dr Saraswat V K
Member of NITI Ayog &
Scientific Adviser to Defense Minister,
India



Prof Seeram Ramakrishna
Mechanical Engineering
National University of Singapore



Dr Vidyasagar M, FRS
SERB-National Science Chair, India

Deans



Prof Bharat Bhooshan Panigrahi
Dean (Academic)



Prof Prem Pal
Dean (Administration)



Prof Mahendrakumar Madhavan
Dean (Alumni & Corporate Relations)



Prof Kanchana V
Dean (Faculty)



Prof Surya Kumar S
Dean (Innovation, Translation & Startups)



Prof Tarun Kanti Panda
Dean (International Relations)



Prof Suriya S Prakash
Dean (Planning)



G Narahari Sastry
Dean (Sponsored Research & Consultancy)



Prof K Venkatasubbaiah
Dean (Students)



Prof Debraj Bhattacharyya
Associate Dean (Planning)

Artificial Intelligence

For more details, visit: <https://ai.iith.ac.in>

| | | | | |
|-------------------|--------------------|--------------|--------------|-----------------|
| 04 | 22 | 268 | 12 | ₹99Cr |
| Full time Faculty | Affiliated Faculty | Publications | SRC Projects | Project Funding |

Highlights

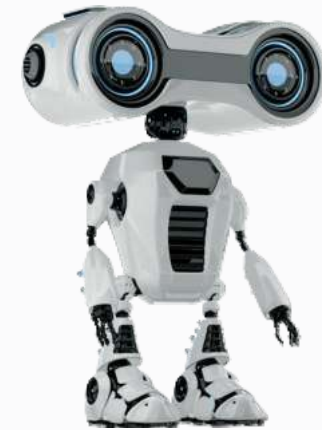
- Publications in ICML, NeurIPS, CVPR, ICCV, ICIP, ICASSP, IEEE Transactions:Signal Processing, Image Processing, CSVT
- Patents and Transfer of Technology
- Large Sponsored Projects and Industry Consultancy
- Projects and Application Domains
- Centre of Excellence on Sustainable cities

Major Facilities

- The Department hosts India's first and only NVIDIA AI Technology Centre (NVAITC).

| | |
|----|---|
| 01 | Explainable AI |
| 02 | AI and Health care |
| 03 | AI and Sustainable Development |
| 04 | Theoretical Machine Learning |
| 05 | Natural Language Processing and Computer Vision |
| 06 | Robotics |

Artificial Intelligence



In vivo micro-CT scanner



| | |
|----|--|
| 01 | Biomedical Imaging and Instrumentation |
| 02 | Biomechanics, Biomicrofluidics, and System Biology |
| 03 | Nanomedicine and Nanotechnology |
| 04 | Neuroscience, Neurotechnology, and Artificial Intelligence |
| 05 | Tissue Engineering and Regenerative Medicine |
| 06 | Lab on chip microfluidics for on-chip biology & biosensing |

Highlights

- 3D bioprinted cornea for blinding corneal diseases
- Bioinspired gold coated phage nanosystem for anti-microbial and anticancer theranostics
- Enhances patient comfort and enabling continuous health monitoring using indigenously developed contact-free health monitoring system
- Estimation of human affect response to vibrotactil stimulation
- Macroencapsulation device for immunoisolation purposes for diabetes
- Design and development of chip scale microdevices for bioanalytical applications.

Major Facilities

- In-vivo Micro CT
- CRYO-SEM
- In-vivo Optical Imaging System
- Envisiontec 3D Bioplotter
- High-Intensity Focused Ultrasound System (HIFU)
- In-House Developed Optical Coherence Tomography (OCT)

| | | | | |
|-------------------|----------------|--------------|--------------|-----------------|
| 12 | 45 | 487 | 90 | ₹75Cr |
| Full time Faculty | PhDs Graduated | Publications | SRC Projects | Project Funding |

Biomedical Engineering

For more details, visit: <http://bme.iith.ac.in>



Gel Doc

| | |
|----|---|
| 01 | Cell & Molecular Biology & Cell Signalling, Immunology |
| 02 | Biochemistry, Bioinformatics, & Biomarker Discovery |
| 03 | Structural Biology, DNA repair & RNA Biology |
| 04 | Chromosome dynamics, Gene Regulation, Advanced Imaging |
| 05 | Circadian Rhythm, Alternative Splicing, Innate Immunity |
| 06 | Protein Engineering, Cancer Genomics & Proteomics |

Highlights

- Understanding the mechanism of DNA repair
- Characterization of E. coli Wzi protein for the treatment of multidrug-resistant Gram-negative bacterial
- Structure of DNA-binding protein from Trypanosoma causal agent of sleeping sickness
- Development of Zebrafish Model and Investigation of Pathological Mechanisms
- Understanding mechanism of HIV infection
- Discovery of chemicals to enhance the sperm motility
- Circadian regulations of neurological and metabolic disorders
- Remove 'Discovery of chemicals to enhance the sperm motility' since it's repeated

Major Facilities

- Ion Channel Assay System
- Bench-top Ultracentrifuge Optima MAX-XD
- Fast Protein Liquid Chromatography System
- Flow Cytometer
- HPLC (Analytical And Preparative)

Highlights

- Microfluidics for infectious disease diagnosis and treatment, cancer theranostics, photocatalysis and optical biosensors.
- Mathematical modeling for diagnosis of covid-19.
- Wind-AI: Efficient wind energy conversion to power under uncertain environment using AI.
- Optimization of lignin to chemicals process using Bayesian optimization.
- Developed GPU based 3D CFD codes and coupled CFD-DEM modelling for spherical & non-spherical particles to understand their interaction during the processing.
- Exploring Emerging Dual Carbon Battery Technology.
- Developed multiscale hybrid model to track mechano-optical coupling in plasmonic networks.

Major Facilities

- HORIBA LABRAM HR Evolution Confocal Raman Spectrometer,
- Optical Tweezers
- Small Angle X-RAY Scattering(SAXS)
- Maskless Lithography System
- Atomic Force Microscopy (AFM)
- Powder XRD

| | |
|----|--|
| 01 | Energy Production, Conversion and Storage |
| 02 | Bio-engineering & Systems Biology |
| 03 | Advanced Materials, Poly Sc & Engg |
| 04 | Heterogeneous Catalysis, DFT, MD, Techno-Economic Analysis |
| 05 | Fluid Mechanics, Mineral Processing |
| 06 | Process Systems Engg AI/ML |



HORIBA LABRAM HR Evolution Confocal, Raman Spectrometer

Highlights

- Developed a low-cost chemical route to recycle graphite
- LIBs. High performance 2.7 V LIHUCs.
- Supramolecular Engineering of battery materials
- Bioinspired Molecular Catalysts for Carbon Dioxide
- Reduction and nonthermal Plasma-Assisted Enhanced CO₂ Conversion
- Ring-Opening Polymerization of Cyclic Esters

Major Facilities

- Small Angle X-ray scattering (SAXS)
- Atomic Force Microscopy (AFM)
- Powder XRD, XPS, DSC-TGA, ICP
- NMR-400 and 600 MHZ, HRMS
- Battery Cyclers, Potentiostat-Galvanostat

| | |
|----|---|
| 01 | Host-Guest Chemistry & Drug Discovery |
| 02 | Molecular Sensors & Co ₂ Activation |
| 03 | Pollution Abatement & High Performance Composites |
| 04 | Small Molecule Activation |
| 05 | Molecular Modelling & Organic Synthesis |
| 06 | Energy Conversion, Saving & Storage and Green Chemistry |



Electron Spin Resonance Spectroscopy

TOC-TN Analyzer



| | |
|----|--|
| 01 | Environmental Engineering |
| 02 | Hydraulics and Water Resources Engineering |
| 03 | Geotechnical Engineering |
| 04 | Structural Engineering |
| 05 | Transportation Engineering |

Highlights

- Portable Assault Bridge
- Meta-Barrier for the Laser Interferometric Gravitational Observatory (LIGO) India
- Law of the wall predicts the mean-velocity profile in a turbulent wall-bound flow
- Climate Change & Overfishing increase neurotoxicants in marine predators.
- Mercury in Dental Amalgam, Online Retail, and the Minamata Convention on Mercury

Major Facilities

- MTS Actuator Systems
- ICP MS
- Cyclic Simple Shear Apparatus
- Dynamic Actuator System
- Repeated Load Triaxial Apparatus for MR

650 TF High Performance Computational Facility



| | |
|----|----------------------------------|
| 01 | Theory |
| 02 | Networks |
| 03 | Machine Learning & Data Sciences |
| 04 | Compilers/Architecture |
| 05 | Formal Methods |
| 06 | Distributed Systems |

Highlights

- Fraud analytics – live data science and analytics project implemented for the Telangana government
- Techniques for Faster Multi-Core Programming
- Coding Schemes for Communication
- IITH MEC (Multi-Access Edge Computing) Platform Integrated with 5G Core

Major Facilities

- Infrastructure Management with MAAS (Metal as a Service).
- Slurm, an in-house cluster management and job scheduling system
- Server and Switches, 500 TB Storage System, HPC Cluster
- Moodle (Modular Object-Oriented Dynamic Learning Environment)

Highlights

- Cave automatic virtual environment
- 3D printing
- Heritage virtual experiences
- Haptics and eye tracking analysis

Major Facilities

- Photography studio
- Animation studio
- Printing lab
- Clay studio
- Wood and metal workshop
- VR Cave/ AR VR lab
- Digital Heritage Lab
- Design for Sustainability lab

| | |
|----|--------------------------------------|
| 01 | Participatory & Collaborative Design |
| 02 | Professional Ethics/Sustainability |
| 03 | Product Systems and Services |
| 04 | Design and Education |
| 05 | Wellness |
| 06 | Crowd Sourced Design |



Haption 6DOF Haptic Device

Design

Electrical Engineering

For more details, visit: <https://ee.iith.ac.in>

| | | | | |
|-------------------|----------------|--------------|--------------|-----------------|
| 37 | 124 | 1778 | 224 | ₹385 Cr |
| Full time Faculty | PhDs Graduated | Publications | SRC Projects | Project Funding |

Highlights

- Enabled Open-Source VLSI on Android Platform
- Initiated 6G research in the area of convergence between 5G and Satcom
- Muscope: An On-chip Miniature Microscope
- COVIHOME - India First Electronics Rapid COVID-19 RNA Test kit
- Perception-based Image Quality Evaluator (PIQE)

Major Facilities

- Microscope Based Fluorescence Lifetime System
- CRESTEC CABL-9500C Electron Beam Lithography
- Silicon Etch System Using XEF2
- Mask Aligner
- PECVD System

| | |
|----|--|
| 01 | Communication |
| 02 | Nanoelectronics, Nano-bio Sensors, Nano-photonics |
| 03 | Multi-media Signal Processing & Speech |
| 04 | Cyber Physical Systems, VLSI/ULSI Design |
| 05 | Information and Coding Theory |
| 06 | Systems & Control Engg. Power Systems & Electronics, Green ICT |



Plasma Asher



| | |
|----|--|
| 01 | Entrepreneurship |
| 02 | Supply Chain Management |
| 03 | Innovation Management |
| 04 | HRM, Leadership, Operations Research, Strategy |
| 05 | Financial Management, Accounting |
| 06 | Rural Entrepreneurship, Marketing & Consumer Behaviour |

Highlights

- Organized Webinar of The Indian tech Start-up Landscape Report 2023 in collaboration with iTIC, IIT
- Hyderabad and Zinnov (Brochure is attached and this can replace the image of Business Model
- Innovation Course on the left hand side)
- Conducted Residential Training Program for Senior Leadership of Indian Oil Corporation Limited on
- "Embracing ESG through Responsible Leadership"

Objective

The Department's main aim is to nurture entrepreneurial motivation and skills among young graduates and produce high-quality research in the areas of entrepreneurship and management. With a prime focus on entrepreneurship and management, the department has excellent potential to nurture young entrepreneurs who can contribute to the economic and social development of the country.

| | | | |
|-------------------|--------------|--------------|-----------------|
| 05 | 09 | 01 | ₹ < 1 Cr |
| Full time Faculty | Publications | SRC Projects | Project Funding |

Entrepreneurship & Management

For more details, visit: <https://em.iith.ac.in>

22 Full time Faculty 38 PhDs Graduated 396 Publications 69 SRC Projects ₹10 Cr Project Funding

Liberal Arts

For more details, visit: <https://la.iith.ac.in>

Madhubani Paintings



| | |
|----|---|
| 01 | Science & Tech, Urban Environments, Migration |
| 02 | Contemporary & Multiethnic American Fiction, Financial Economics |
| 03 | Popular Culture, Theoretical Linguistics, Learning & Memory Studies |
| 04 | Medical Anthropology, Kinship & Family, Resilience, Cultural Psychology |
| 05 | The Twentieth Century, After Globalization & Media |
| 06 | Gender, Body Studies, Development Studies, Health Psychology |

Highlights

- Services related to the ERIA Research Project
- Tackling Society's Grand Challenges: Approaches to Responsible Innovation in Science and Technology and Technology and Indo-Pacific Region
- Use of data for improved uptake of our services
- Impact of Landfills on Health
- Democratizing Delphi: towards more inclusive methodologies for assessing technologies for development
- Adolescent Sexual Health Education through Picture Books: Designing and Disseminating Picture Books on Sexual Health-Taking the Conversation to Children, Doctors, Teachers

Highlights

- Monotone Metric Spaces in Machine Learning
- Characterizations of local rings via homological dimensions of summands of syzygy modules
- Sign changes for the product of Fourier coefficients of Hilbert modular cusp forms
- Koszul Algebras and Diagonal Subalgebras
- The effect of heat source on non-Newtonian fluid flow through a horizontal porous bed
- Some New Variants of Bishop-Phelps-Bollobas Theorem for Spaces x^* and $LipO(X)$
- Invariant subspaces for a subclass of norm attaining operators
- Development of ERT Reconstruction Algorithms for Accurate Estimation of Phase Concentration in Multi-phase flows

| | |
|----|-----------------------------------|
| 01 | Algebra & Number Theory |
| 02 | Analysis |
| 03 | Applied Mathematics and Computing |
| 04 | Statistics |



Stream function pattern with point vortices on a curved torus

Mathematics

For more details, visit: <https://math.iith.ac.in>

22 Full time Faculty 22 PhDs Graduated 240 Publications 83 SRC Projects ₹ 3 Cr Project Funding

Highlights

- Design and Development of New High Entropy Alloys/Compounds, Creep-resistant steels, Superalloy welds
- Design and Development of New Multiferoic Materials, Functionalized 2D Materials, Spintronic Devices, Thermoelectrics, Nanostructures for Plasmonics, Bacterial Cellulose-based Nanocomposites, Electrocatalysts
- Interdiffusion studies in multicomponent alloy systems,
- Development of In-situ electron microscopy techniques,
- Development of GPU-accelerated phase-field models for microstructural simulations in alloys and oxides (modules in open-source MicroSim code, competition between thermal grooving and grain growth, design of ferroelectric solid solutions), First-principles modeling of defects in semiconductors.

Major Facilities

- Transmission Electron Microscopes & Focused ion beam facility
- Field emission scanning electron microscopes,
- Thin film XRD, Nanoindenter, CVD, Sputtering, PLD,
- Thermal Evaporator, PPMS, Scale Rolling Machine, Water models (BOF, EAF, Ladle), Vacuum induction melting furnaces, ThermoCalc Software, VASP



| | |
|----|---|
| 01 | Novel Alloy Development for Defense, Aerospace, Automotive, and Naval Sectors |
| 02 | Design and Fabrication of Advanced Functional Materials and Devices |
| 03 | Multiscale Modeling of Materials and Defects |
| 04 | Sustainable Metallurgy |
| 05 | Advanced Manufacturing Techniques |
| 06 | Advanced Characterization Techniques |



| | |
|----|--|
| 01 | Smart Manufacturing |
| 02 | Vibrations and Acoustics |
| 03 | Experimental and Computational Mechanics |
| 04 | Multiphase Flows |
| 05 | Hydrogen Energy |
| 06 | Aerospace Engineering |

Highlights

- Development of a low-frequency passive noise control sheet absorber
- Underwater shock simulator
- Double-Sided Incremental Forming for Large Components
- Started Minor in Robotics

Major Facilities

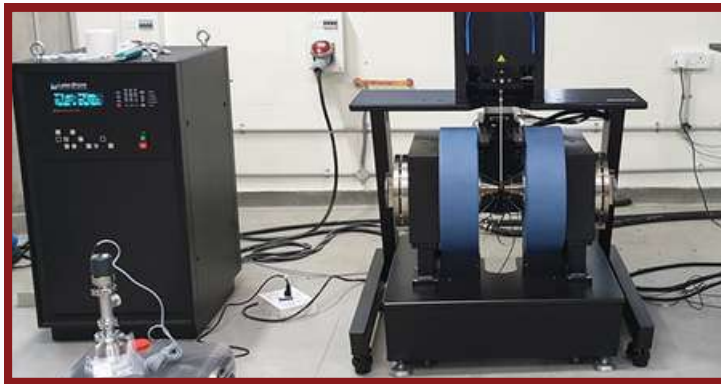
- Tekscan Tirescan System
- Polytec Micro System Analyzer
- High-Speed PIV
- Velocity And Scalar Diagnostics Laser System
- Phase Doppler Particle Analyzer

Physics

For more details, visit: <https://physics.iith.ac.in>

32  Full time Faculty
65  PhDs Graduated
1389  Publications
83  SRC Projects
₹32Cr  Project Funding

Vibrating Sample Magnetometer



Thrust Areas

- 01 Condensed Matter Physics (CMP) - Experiment & Theory
- 02 Experimental High Energy Physics
- 03 Atomic, Molecular & Optical Physics (AMO) - Experiment & Theory
- 04 Noisy Intermediate Scale Quantum (NISQ) devices - Theory
- 05 Quantum Foundations, Information, Computation & Communication Astrophysics
- High Energy Physics (HEP) - Experiment and Theory

Highlights

- Finding fundamental limitations of the most widely used formalism for describing quantum devices.
- New Ultrafast fiber laser facility @ IITH. Development of next generation ultra fast laser sources for Biomedical applications. High Power Laser based Additive Manufacturing and Directed Energy applications.
- Observing and understanding black holes through NASA, ESA and ISRO space missions data.

Major Facilities

- Vibrating Sample Magnetometer
- MPMS
- XRD
- Terawatt Laser
- Sputtering system
- Photoluminescence Spectrometer
- Cryofree Optical Cryostat
- Brillouin Light Scattering
- Telescope

Highlights

- Mechanical and Acoustic analysis of musical instruments, 3DfyMaps, Indic search engine - Information retrieval and Data mining on Heritage Text corpus, Hands on Heritage Experience and Visualization - gamification of Heritage Structures and associated knowledge, Digital Yoga Studios, Neuro-Biomechanics of Yoga and performing Arts, Computational social sciences - Mathematical analysis of Indic society, life and culture, Digital Heritage Documentation and Reconstruction, Structural Health Monitoring, AI for Sculpture, Heritage Clay Structures, Chemistry for Archaeology, Heritage Biomaterials Integrated Medicinal systems, Exploration of Panchadhatu/Ashtadhatu making, Foundational concepts in IKS

Major Facilities

- 3D clay printer and its shaker; classical musical instruments, Heritage compute clusters,

Thrust Areas

- 01 NEuro-biomechanics of Yoga and performing arts
- 02 Indic language processing
- 03 Heritage conservation and reconstruction
- 04 Integrated traditional medicinal systems
- 05 Acoustics of musical instruments
- 06 Archaeometry



Heritage Science & Technology


For more details, visit: <https://www.hst.iith.ac.in>

14  Affiliate Faculty
07  MTechs Graduated
02  Publications
03  SRC Projects
₹7Cr  Project Funding

Climate Change

For more details, visit: <https://cc.iith.ac.in>

20  Affiliate Faculty

74  Publications

12  SRC Projects

₹3 Cr  Project Funding

Highlights

- The Department of Climate Change at the IITH attempts to explore climate change by integrating academic knowledge with practical knowledge bringing scientists, engineers, practitioners, and students together.
- The key is an understanding of the strong association between the basic climate sciences, the technology & engineering solutions, and the policy.
- We, at IITH, plan to be a leading institute in the synergy among these three key areas.
- This clearly highlights the need for multi-disciplinary courses.
- We plan to achieve this with a unique curriculum taking the help of IITH's fractal academics program.
- The curriculum involves core courses, elective courses, seminar series by the experts of various disciplines, focus group discussions, field visits, and research thesis.

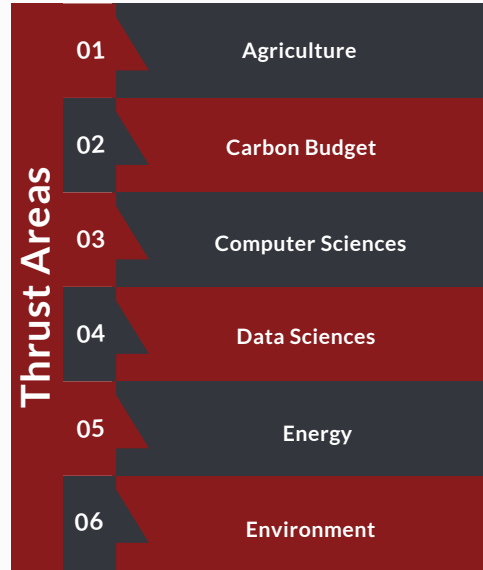


Image Compression



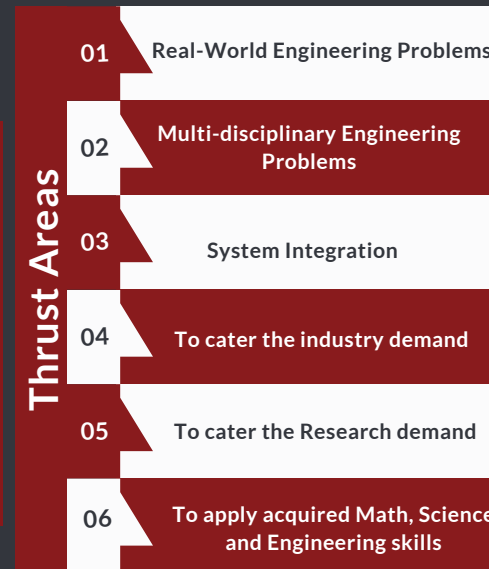
16  Affiliate Faculty

Highlights

BTech in Engineering Science at IITH is a unique program being offered for the first time in India. It opens the doors to different specializations and provides a holistic engineering education. The basic structure is as follows: for the first 2 years (4 semesters) the student does basic courses in Mathematics, Physics, Chemistry, and different fields of engineering.

Major Facilities

- Ability to apply acquired Math, Science and Engineering skills to solve real-world engineering problems.
- Ability to identify, Formulate and solve multi-disciplinary engineering problems.
- Ability to work well in inter-disciplinary teams with focus on System Integration.



Engineering Science

For more details, visit: <https://es.iith.ac.in>



Key Objectives

- Capability building for potential entrepreneurs
- Entrepreneurial Ecosystem Enhancement and
- Capacity building for entrepreneurial mindset.

Highlights

- Two philanthropic foundations, Cyient Foundation and The Shibodhi Foundation, in a unique collaboration with IIT Hyderabad, have established the Dr. BVR Mohan Reddy School of Innovation and Entrepreneurship (BVR SCIENT) on the IIT Hyderabad campus. The school features a state-of-the-art building with advanced teaching and learning facilities.
- Our aim is to nurture and develop world-class innovation and entrepreneurial talent.
- BVR SCIENT strategically leverages the diverse strengths of our various departments, particularly the Department of Entrepreneurship and Management, to access extensive technical knowledge and expertise.



Highlights

- Greenko Group and IIT Hyderabad are collaborating to establish the Greenko School of Sustainability at the Indian Institute of Technology Hyderabad.
- The School of Sustainability is designed to shape a world that harmonizes with nature and empowers future generations toward a more sustainable tomorrow.
- The objectives of the school are to conduct research and development, education programs.
- The Greenko School of Sustainability is structured as a cross-disciplinary centre that manages seamless participation and knowledge flow from all existing departments and centres of IIT Hyderabad.

ENERGY 01
Energy storage
Fuel cells
Hydrogen
Batteries, etc.

RECYCLING 02
Waste to energy
Multi-material recycling
Circular economy, etc.

CLIMATE CHANGE MITIGATION 03
Carbon capture
Renewable energy
Climate resilience, etc.



SUSTAINABLE HABITATS 04
Retrofitting
Affordable housing
Green infrastructure, etc.

AI TECH FOR SUSTAINABILITY 05
AI for energy
AI for water
AI for food security, etc.

GREEN CHEMISTRY 06
Low energy
Green synthesis, etc.



Center for Interdisciplinary Programs (CIP) has been created with a vision of fostering collaboration and integration across different academic disciplines at IIT Hyderabad. CIP @ IIT Hyderabad envisions to create new paradigms in education, integrating techniques, tools and science from multi- and cross-disciplinary expertise on IITH campus to address complex and multifaceted challenges.

Centre for Interdisciplinary Programs serves as a bridge between traditional academic departments at IIT Hyderabad. Main goals of the center include

- Initiate and sustain new interdisciplinary programs
- Promote interdisciplinary research through joint PhD supervision
 - IITH - Deakin University Joint Doctoral Program
 - Inter-departmental PhD program
- Incubate new 'Centers of Excellence'

Highlights

- Services related to the ERIA Research Project
- Tackling Society's Grand Challenges: Approaches to Responsible Innovation in Science and Technology and Technology and Indo-Pacific Region
- Use of data for improved uptake of our services
- Impact of Landfills on Health
- Democratizing Delphi: towards more inclusive methodologies for assessing technologies for development
- Adolescent Sexual Health Education through Picture Books: Designing and Disseminating Picture Books on Sexual Health-Taking the Conversation to Children, Doctors, Teachers

Objective

The main objectives of CIP is

- To create opportunities for students, faculty, and researchers from different disciplines to collaborate, share knowledge, and work together on innovative projects.
- To offer unique degree programs by developing and delivering interdisciplinary degree programs that combine elements from various fields to prepare students for a dynamic and evolving job market.
- To provide hands-on experience by facilitating practical learning experiences through collaborative projects, internships, and real-world applications of interdisciplinary knowledge.

PG Programs

- **Additive Manufacturing**
3D Printing Technology
- **Integrated Sensor Systems**
Combination of sensors with advanced processing, communication, and user interface technologies.
- **Polymers & Bio Systems Engineering**
Expertise in the properties, processing, and performance of polymers and other materials used in healthcare
- **Smart Mobility**
Autonomous Vehicles
Sustainable Transportation
This program is Collaborated with TiHAN, IIT Hyderabad.
- **Medical Device Innovation**
This program is collaborated with Asian Institute of Gastroenterology (AIG) Hyderabad and an Incubator partner, Centre for Healthcare Entrepreneurship, IIT Hyderabad.
- **Ophthalmic Engineering**
This program is offered through the combined expertise of LV Prasad Eye Institute and IITH.
- **Integrated Circuits and Microsystem Packaging**
IC Packaging
Electronics & Computing
- **Light weighting Engineering**
Focus Areas -
Design of Lightweight Structures
Material Science
Analytical Techniques
Practical Application and Component Realization
Safety and Durability
- **Medical Physics**
This program is in collaboration with Basavatarakam Indo-American Cancer Hospital - Research Institute

Online PG Programs

- Integrated Computational Materials Engineering
- Electrical Vehicle Technology



Centre for Continuing Education

For more details, visit: <https://cc.iith.ac.in/>

Scope and functions

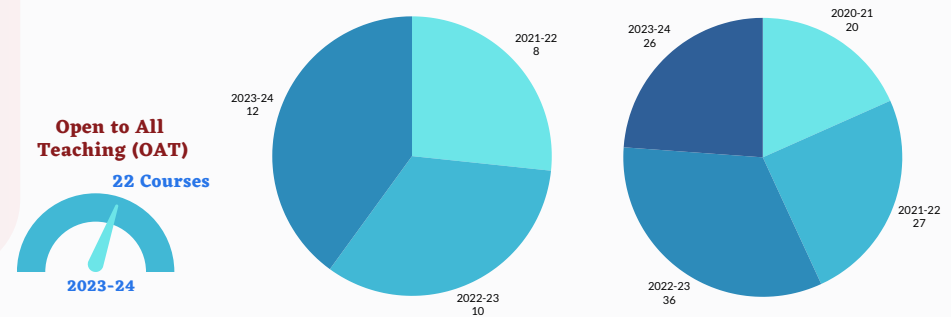
- The Centre for Continuing Education (CCE) aims to conduct training programs to students, academicians, and working professionals across the country.
- To conduct all academic outreach activities like Conferences, Workshops, Certificate Courses, Symposia, Short-term courses, Training programs, and other similar activities of the Institute.
- To conduct certificate courses in collaboration with industry and academia designed to provide specialized expertise/skill development in diverse fields.
- To organize Faculty Development programs for faculty of various technical institutes of the country.

Programs and Facilities

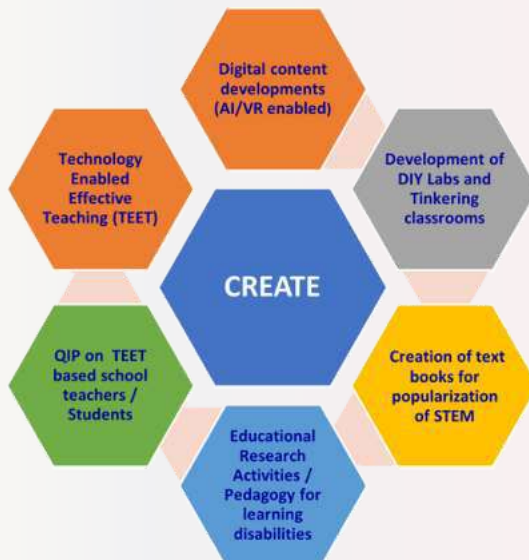
- Open To all Teaching (OAT)
- NPTEL
- International/ National Conferences
- Workshops, Symposiums, Training Programs
- Certificate Programs
- Convention Centre Facilities :
 - Auditoriums
 - Seminar Rooms
 - Conference Rooms
 - VIP Lounges
 - Comprehensive Support Services:
 - Technical Expertise
 - Event Coordination



NPTEL Courses



Major Themes of CREATE



Scope and functions

- “Centre for Research in Education Assisted by TEchnology (CREATE)” is proposed with the concurrence of current challenges faced by the academia and with ideas of what future STEM education might turn into.
- The themes of the centre are enlisted, such that it addresses various facets of the challenges faced by 21st century academic institutes and IITH. The themes are deliberated and listed such that how an instructor can integrate themselves as a part of the learning activity of the students.
- In the process, integration of various technology into pedagogy becomes inevitable for the current and future problems.
- The centre will focus on effective utilization of technology tools for effecting teaching and learning at the same time give a right proportion of learning by making/doing.

CREATE

Centre for Research in Education Assisted by TEchnology

Centers of Excellence



Rural Development Centre

Rural Development Centre (RDC) at IITH was established in July 2020 with a vision to support Rural development initiatives of the Government through innovative technologies being developed at IITH.

To know more, visit: <https://rdc.iith.ac.in/>



IITH-DIA Centre

DRDO-IITH Research cell was established at IITH initially and this cell was converted to DRDO Industry Academia Center of Excellence (DIA-CoE) during 2022 and started working from April 2023 on 07 Research Verticals.(Ultra-High Temperature Materials for Hypersonic Vehicles, Artificial Intelligence for Missile and Missile Defence, Technologies for Space Application, Adaptive Imaging and Image Processing, Nanoornithopter Technologies, Seeker and Homing Technologies & Additive Manufacturing)

To know more, visit: <https://pr.iith.ac.in/pressrelease/DIAH2.pdf>



Design Innovation Centre

Design Innovation Centre at IITH is engaged in Innovation through design and technology along with partnering institutions engaging with mutually beneficial innovation activities.

To know more, visit: <http://dic.iith.ac.in/>



Teaching Learning Centre

TLC activities of IITH is mainly focused on faculty development programs aiming at advanced pedagogy and teaching effectiveness in the faculty and to instigate curiosity and art of questioning among the children in learning fundamentals of science & technology..

To know more, visit: <https://tlc.iith.ac.in/>



DST NM-ICPS TiHAN

Dept of Science & Technology (DST) under National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS), Govt has sanctioned the prestigious Technology Innovation Hub to IITH in the technological vertical of Autonomous Navigation & Data Acquisition Systems (UAVs, ROVs, etc.).

To know more, visit: <https://tihan.iith.ac.in/>



Centre for Research & Innovation in AI, (क्रिया)

To support the research activities of the AI department, a Centre for Research and Innovation in AI (क्रिया) has been established with the support of JICA (Japan International Cooperation Agency) and Honeywell.

To know more, visit: <https://ai.iith.ac.in>



Centre of Excellence for Medical Devices (CoE ICMR)

ICMR has sanctioned Rs. 15.2 Cr for a Centre of Excellence to IITH to foster innovation & product development in the field of Medical Devices &Diagnostics.

To know more, visit:

<https://bme.iith.ac.in/Renuweb/research.html>



E Cell

We at IITH's Entrepreneurship Cell believe in passion, hard effort, and an unquenchable drive for achievement. We are people who love nothing more than the thrill of coming up with ideas, working them out into businesses and experiencing the pleasure of watching it all come to fruition.

To know more, visit: <https://ecell.iith.ac.in/>



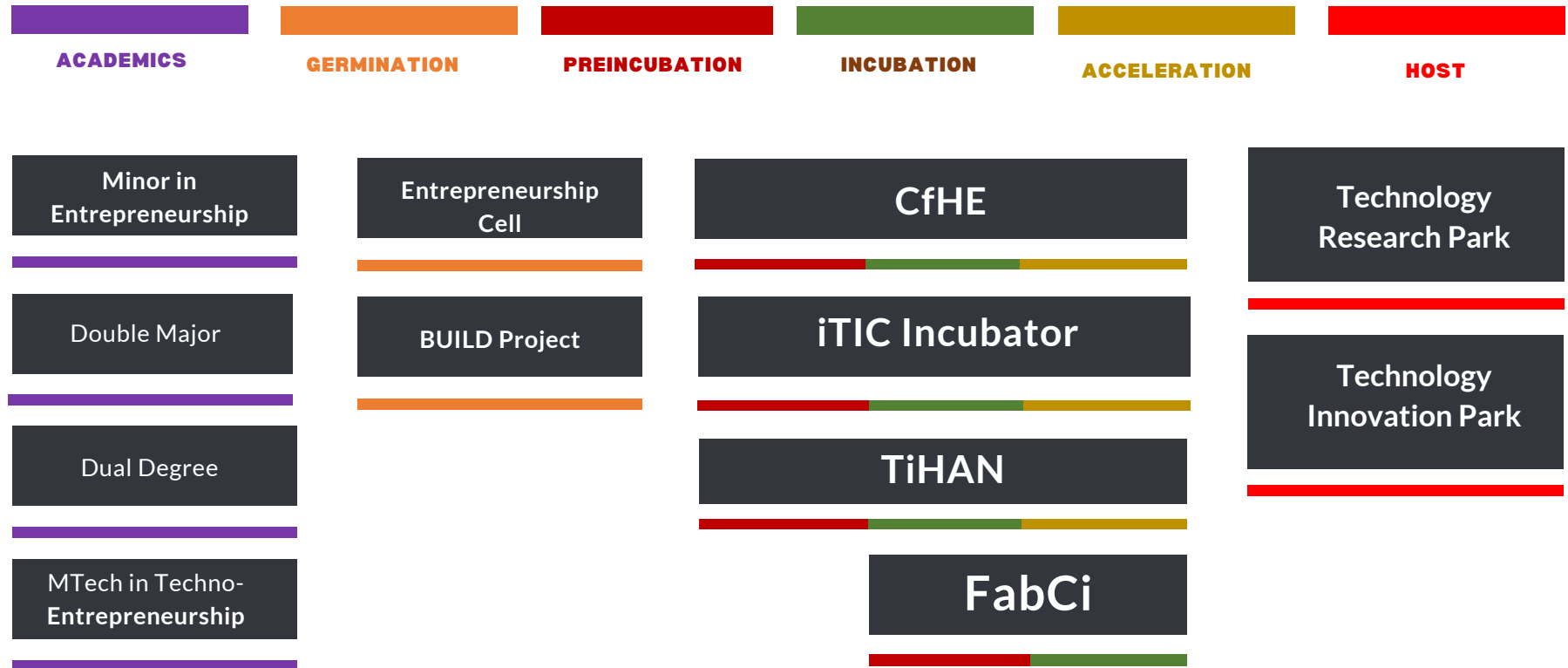
Transportation Research and Innovation Hub (TRI HUB)

IITH inked an MoU with the National Highways Authority of India (NHAI), Ministry of Road Transport and Highways, Govt. of India to establish a TRI HUB. This Centre of Excellence at IITH will work on contemporary and cutting-edge technologies for National Highways in India.

To know more, visit: <https://trihub.iith.ac.in/Home.html>

Innovation at IITH

IITH Entrepreneurship Ecosystem



Center for Healthcare Entrepreneurship

For Details, Visit: [Visit: https://cfhe.iith.ac.in/](https://cfhe.iith.ac.in/)

i-TIC Foundation

For Details, Visit: [Visit: https://i-tic.iith.ac.in/](https://i-tic.iith.ac.in/)

NMICPS TiHAN Foundation

For Details, Visit: <https://tihan.iith.ac.in/>

Fabless Chip Design Incubator (FabCI)

For Details, Visit: [Visit: http://fabci.iith.ac.in/](http://fabci.iith.ac.in/)

Technology Research Park

For Details, Visit: [Visit: https://trp.iith.ac.in/](https://trp.iith.ac.in/)



Alumni Relations

Alumni relations Office aims to nurture and strengthen the institute's bond with its alumni to support key strategic initiatives. These include setting up world-class research, academics and infrastructure in emerging areas of science and technology, improving faculty value proposition, strengthening the entrepreneurship ecosystem and contributing to society.

For all our national institutes of eminence, it is a well-known fact that the Alumni have always played a key role in building the institute and its reputation. Likewise, we at IIT Hyderabad have identified the Alumni Relations as one of the key pillars of our institute.

Activities

- Alumni Engagements
- Alumni Meet & Greet @ major cities
- Foster talks by alumni
- IITH annual alumni day
- IITH monthly digest to alumni
- IITH AA engagements with students
- IITH campus access facilities

Visit: <https://acr.iith.ac.in/>



International Relations

- International Admissions and International Collaborations
- Coordinate international delegation visits to IITH
- Encourage, maintain and sustain relationships with foreign universities and build new partnerships
- Promote International admissions in neighboring countries
- Promote international student exchanges (both inbound and outbound)

We are focused on building strong research collaborations with foreign universities. To accomplish this, we envisage a 4-stage process:

- Faculty interactions (visits & workshops, video-conferencing, joint proposals, co-authored papers)
- Student exchanges (PhD and MS scholars to spend 3-6 months carrying out research at collaborators' laboratories)
- Joint supervision of research scholars, serving on doctoral and master committees
- Joint-degree programs (where sufficient sustainability and scalability of relations have been demonstrated)

Visit: <https://ir.iith.ac.in/>



Corporate Relations

Foster business engagements to conceptualize, develop & implement strategic initiatives. Regular meetings with Corporates to:

- Research collaboration & funding
- Prospective recruitment for the students
- Legacy projects funding – Alumni batches
- Excellence awards endowment by Alumni and Philanthropist
- Scholarships supported by alumni
- Engaging with corporates for CSR funding
- Fundraising campaign drives
- Scholarship for EWS funded by NGOs

OCS Activities

- Placements & Internship - augment the placement Internship & PPOs through the robust foundation of Corporate Relations
- Career Counselling to prepare students to make the right choice of career
- Knowledge-sharing sessions by Professionals from reputed organizations

Visit: <https://ocs.iith.ac.in/>



Public Relations

Public Relations Office promotes and upholds IITH reputation through strategic communication enabling comprehensive public engagement.

Facilitating a strong and comprehensive public resulting in higher student recruitment, industry liaison, funds for faculty research, greater visibility, and strategic investments

Activities

- Institute Publications (Monthly Highlights, Newsletter, Brochure, Annual Report, and Calender) and Communications
- Media Management and Public Relations
- Social Media Management
- Facilitating Photography/ Videography for Institute Research Videos and other Institute Events
- Institutional Ranking Coordination: NIRF, QS & ARIIA

Visit: <https://pr.iith.ac.in/>

The General Council is an umbrella term for various bodies which not only perform representation tasks, but also cater to student welfare, societies, entertainments etc. The General council strives towards the general welfare of the students.

For more details, visit: <http://gymkhana.iith.ac.in>

General Council



Cultural Council



The Cultural Council are a motivated group of individuals who believe that a college should have its equal share of fun & frolic along with the case studies. Clubs under Cultural Council are Infocus, Behind the lens, Vibes, Rang de manch, Gesture Shuffle, LitSoc..

IITH's sports is one of the more brilliant facets of this campus life. IITH offers plenty of sports facilities, which include a common football & cricket ground, a hockey ground, a well-equipped swimming pool, floodlit courts for basketball, badminton, tennis, and multiple courts for volleyball. Facilities for indoor games like table tennis, caroms, and chess are also available.

Sports Council



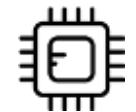
Media Council



The media council of IITH was formed in May 2014 and is a student council that helps take IITH to every individual in and outside IITH. They are involved in publicizing our institute through social media, social events, etc. The Media Council is currently engaged in various newsletters of IITH like the academic newsletter, placement newsletter with the guidance of different faculties, and PR Office of IITH.

The Sci-Tech council is headed by Science and Technology Secretary. It encompasses nine societies : AeroClub, Cepheid, Elektronika, Kludge, Infero, Lambda, Prakriti, Robotix and Torque which covers the diverse nature of science and technology. Various events are organised from time to time, starting from orientation of all these clubs.

Scitech Council



Mess Council



Mess monitoring council, also known as MMC, assists in the robust functioning of mess in coordination with mess wardens & HCU. Headed by the mess secretary, it represents the students' voice. It also regularly inspects the operations to look for various faults & ensure that food quality is maintained at IITH. It strives to ensure that all the students have enjoyable and healthy meals at their second home.



Sunshine

Sunshine: The Counselling Cell

Since its inception on January 12, 2012, Sunshine- the counselling cell at IIT- H, has been committed to helping the student community. The dedicated team of Sunshine comprises of a Faculty in- Charge, three Psychological Counsellors, nineteen faculty representatives, twelve student heads, thirty two management team members and thirty three student mentors.



Campus Facilities



- 24X7 Hospital & Pharmacy
- Knowledge Resource Centre (Library)
- SBI, Canara, HDFC, and ICICI Banks on campus
- Recreation center
- Tinkerer's lab
- E-Cell
- Supermarket
- World class indoor and outdoor sports facilities
- Olympic size Swimming Pool
- Cultural amenities
- Post Office
- Open Air Theatre with 40x20 ft LED screen
- Cafeteria (Domino's, Subway, Barista, Amul and other outlets)
- Vending Machines
- Speciality Clinics
- Recording Studio

KRC at a glance

- RFID based Book Circulation System
- Search using Summon discovery tool
- Self Issue-Return Kiosk
- Information Kiosk
- RFID Security gate
- OPACs-Portable
- Digital Wall
- Displays
- Recording Studio
- Learning-Commons-Lab1
- Research-Commons-Lab2
- Video-Conference-Room
- Virtual-Class-Room (AV-1)
- Seminar Room (AV-2)
- Meeting-Room

State-of-the-art equipment at KRC

- RFID Gate
- Self Check-in / Check Out Kiosk
- Portable OPACs
- Book Scanner
- Digital Wall
- Displays
- Kiosks



Book Scanner



Self Check-in/
Checkout
Kiosk



Academic & Research Tools & Services



Access all subscribed resources at: <https://identity.iith.ac.in/>

Awards & Recognitions

Faculty-Fellowships

- Dr Gaurav Sharma (BT), Associate of the Indian Academy of Sciences (2023)
- Prof Mahendrakumar Madhavan (CE), Fellow of the Institution of Civil Engineers (ICE), London, UK
- Prof Mahendrakumar Madhavan (CE), Fellow of the American Society of Civil Engineers (ASCE), USA
- Dr Mudrika Khandelwal (MSME), INSA Associate Fellow (2023)
- Dr Prakash Chandra Mondal (LA), Fellow of the Royal Society of Arts (RSA) London
- Prof Rajakumara Eerappa (BT), Fellow of the Telangana Academy of Sciences (FTAS), 2023
- Prof Sai Santosh Kumar Raavi (PHY), Fellow of the Royal Society of Chemistry (FRSC)
- Prof Sai Santosh Kumar Raavi (PHY), Fellow of the Telangana Academy of Sciences (FTAS) for the year 2023 under the category of Physical Sciences
- Dr Sayantee Jana (MA), Fields Research Fellow at the Fields Institute for Research in Mathematical Sciences
- Dr Shourya Dutta Gupta (MSME), INAE Young Associate (2023)
- Prof Sivakumar (EE), elected as INAE Fellow (2023)
- Dr Sudarsanam Putla (CHY), Fellow of the Telangana Academy of Sciences (FTAS), 2023
- Prof Vineet Balasubramanian (CSE), elected as INSA Associate Fellow-2024 and INAE fellow

Faculty-Other Recognitions

- Prof Amirtham Rajagopal (CE), elected as an advisory editorial board member in the International Journal of Impact Engineering
- Dr Aravind Kumar Rengan (BME), Merk Young Scientist Award 2023 - Runner-Up in Biological Sciences
- Dr Aravind Kumar Rengan (BME), prestigious G D Naidu Award 2023
- Dr Atluri Avanthi (BT) Outstanding Women Researcher in Biofuels Award International Foundation, Chennai
- Dr Ashok Kamaraj (MSME), member of the Editorial Board of IIM Metal News Magazine
- Prof Ashok Kumar Pandey (MAE), elected as the Chair of the Technical Committee in Micromachines, IFToMM
- Prof Chandra Shekhar Sharma (CHE), elected as a member of the Editorial Board Member for an IOP Publishing journal Nano Express.
- Dr Chandra Sekhar Sharma has been elected as a Co-Chair of Gopal Young Academy (GYA) for the year 2024-25
- Prof C Malla Reddy (CHY), appointed as Co-Editors-in-Chief of CrystEngComm Journal
- Dr Digvijay S Pawar (CE), Bronze medal in the 14th South Zone Shooting Championship Rifle/Pistol (NR)
- Dr Digvijay S Pawar (CE) Networking Grant Award from "The Ademy of Medical Sciences" UK
- Dr Gangadharan Raju (MAE), Editorial Board Member of the ISSS Journal of Micro and Smart Systems.
- Dr Ganesh Sambhaji Ghalme (AI), A Bill & Melinda Gate Foundation Grant
- Prof Kanchana (PHY), Bronze medal from the Society of Materials Chemistry, (2023)
- Prof Kirti Chandra Sahu (CHE), Editorial Advisory Board of Langmuir
- Prof Kirti Chandra Sahu (CHE), Associate Editor of Industrial & Engineering Chemistry Research (American Chemical Society)

- Prof Kishalay Mitra has received an outstanding Reviewer Awards 2023 by IOP Publishing.
- Dr Lopamudra Giri has received an Award from the Royal Academy, Engineering, UK, (2024)
- Prof Mahendrakumar Madhavan (CE), Member of the Global Advisory Committee (GAC) of Construct steel
- Dr Mudrika Khandelwal (MSME) & Prof P Rajalakshmi (EE), selected for the 3rd Batch INSA-NCGG Leadership in Science & Technology (LEADS) Programme, Aimed at training scientists to become future leaders
- Dr Nagarajan Ganapathy (BME), Editorial board member for the prestigious "IEEE Transactions on Affective Computing" journal
- Dr Nagarajan Ganapathy(BME) received the Bill & Melinda Gate Foundation Grant
- Prof Narasimha Mangadoddy has been awarded with National Geo Science Award (2023).
- Prof Renu John (BME) Best Bioincubation Centre Exhibit.
- Dr Rupesh Ganpatrao Wandhare (EE), "SERB Technology Translation Award"
- Prof Sai Santosh Kumar Raavi (PHY), Associate Editor of Elsevier's journal (OPTICAL MATERIALS)
- Dr Sandipan Ray (BT), multi-national grant by Wellcome Trust, UK
- Dr Sandipan Ray (BT), elected as a member of the Executive Committee (EC) of the Indian Society for Chronobiology (InSC)
- Dr Sayantee Jana (MA), elected as a member of the Editorial Board of Statistica Neerlandica Journal
- Prof Shashidhar T and his research team's (CE), article "Pharmaceutical Pollution of the World's Rivers," has bagged the Cozzarelli Prize.
- Dr Shiva Ji (DES), Invitation from The Japan Science and Technology Agency (JST) to join Japan-Asia Youth Exchange Program in Science
- Dr Surendra Nadh Somala (CE), "Lunar-gravitational Wave Antenna" received funding from the European Space Agency for science activities on the Moon.
- Prof Sushmee Badulika (EE), Prof Kasturi Lal Chopra, Memorial Distinguished Lecture Award (2023)
- Prof Vandana Sharma (PHY), "Young Scientist Award" in The National Physicist Conclave - 2024 held at SRM University, Chennai
- Prof B S Murty (MSME), Prof Giridhar Madras (CHE), Prof Ch Subrahmanyam (CHY), Prof Vinayak Eswaran (MAE), Prof Kishalay Mitra (CHE), Prof K B S Rao (MSME), Prof Deepa (CHY), Prof KVL Subramanian (CE), Prof Balasuramaniam Jayaram (MATH) Prof G D Janaki Ram (MSME) and Prof M.Narasimha (CHE) have been featured in the Stanford University (SU) and Elsevier top 2% of world-renowned scientists for career-long research (11 faculty).
- Prof B S Murty (MSME), Prof Giridhar Madras (CHE), Prof C Krishna Mohan (CSE), Dr Sushmee Badhuliika (EE), Dr Vineeth N Basubramanian (CSE), Dr Sudarsanam Putla (CHY), Prof Ch Subrahmanyam (CHY), Prof Kishalay Mitra (CHE), Prof Kirti Chandra Sahu (CHE), Prof Pinaki Bhattacharjee (MSME), Dr Falguni Pati (BME), Prof G D Janaki Ram (MSME), Dr Sunil Kumar Maity (CHE), Dr Srinivasulu Kanaparthi (EE), Dr Shantanu Desai(PHY), Prof Shiv Govind Singh (EE), Dr Natte kishore (CHY), Dr Mayur Vaidya (MSME), Dr Suresh P (MSME), Prof Vinayak Eswaran (MAE), Dr Archak Purkayastha (PHY), Prof M Narasimha (CHE), Dr A.K.Pan (PHY) have been featured in the Stanford University (SU) and Elsevier top 2% of world-renowned scientists for single year research - 2023 (23 faculty).

Students Recognitions

- Ms Amisha (LA), won first prize at the 'India's Vision 2047' held at Administrative Staff College of India
- Ms Anamika Dixit (CHY), selected for the Future Research Talent Fellowship at the Australian National University
- Mr Aszad Alam (MSME), won the first Prize in the National Blog Writing competition at the India International Science Festival (IISF-2022) in 25+ category for the topic "Leveraging Science, Technology, & Innovations for an Atma Nirbhar Bharat"
- Mr Narnepati Krishna Chaitanya, Ms Jesna Fathima & Ms Debasmita Behera (CE), won the Mitacs Globalink Research Award
- Mr Parikshith Shashikumar & Ms Anushree Gupta (LA), selected for the Future Research Talent fellowship at the Australian National University
- Mr Pawas Dwivedi (EE), won the NCC- Overall Best Cadet of the Camp Award
- Mr Piyush Saklani (PHY), was awarded the Chanakya Post-graduate Fellowship from I-HUB Quantum Technology Foundation (I-HUB QTF)
- Mr Rishabh, 37th Inter Aquatics Meet 2023 (2 Gold, 1 Silver, 2 Bronze medals)
- Mr Barath, 37th Inter Aquatics Meet 2023 (02 Bronze medals)
- Mr Sandal Kotawala, won the 12th CavinKare-MMA ChinniKrishnan Award 2023 for the product Intelligent Vision Analyser (iVA)
- Mr Siddharth, 37th Inter Aquatics Meet 2023 (1 Gold, 1 Silver, 3 Bronze medals)
- Mr MD Soif Ahmed (PHY), being selected for a Swiss Government Excellence Scholarship for the period of one year
- Dr Shanola S Sequeira (MA) student of Prof G Ramesh was selected for the KVRSS Award for 2024
- Ms Shreyayukta Chakraborty (BT), won the best Student Award at the "InSc School in Chronobiology 2023", at the Department of Zoology, NEHU, Shillong, organized by the Indian Society for Chronobiology
- Mr Srinivasan D (MSME), received The World Championship title in the 18th Version of Steel Challenge organized by the World Steel Association in London
- Ms Subhanjali (LA), won second prize at the 'India's Vision 2047' held at Administrative Staff College of India
- Mr Venkata Manikanta, 37th Inter Aquatics Meet 2023 (02 Bronze medals)
- Mr Vineet Gairola (LA), awarded the 2023 APS Student Grant by the Association for Psychological Science (APS)
- Mr Vineet Gairola (LA), received the Division 36 Social Justice Task Force Research Grant Award from The American Psychological Association
- RVBRN Aaseesh (EE), Utkarsh Doshi (EE), Lokesh Badisa (AI) & Atharv Ramesh Nair (EE), won 3rd prize in IEEE Signal Processing Society's recently held 2023 Video and Image Processing (VIP) cup
- Mr Apan Dinda, Ms Mrinmoyee Saha & Mr Pitambar Bagui (PHY), was awarded Chanakya Post-graduate Fellowship from I-HUB Quantum Technology Foundation (I-HUB QTF)

Alumni Excellence Awards

- Mr Aditya Aagare, Award for Promising Entrepreneur
- Dr Arghya Pal, Excellence in Academics and Technology Development
- Dr MD Azhar Ali, Excellence in Academics and Technology Development
- Mr Pramod Rangarajan, Distinguished Contribution to Institute Building
- Dr Rajesh Reddy Datla, Distinguished Contribution to Society and Nation-Building
- Mr Vishnu Vikyath G, Award for Promising Entrepreneur

Other Alumni Recognitions

- Dr Aswathi Velayathikode Anand (LA), selected as an Assistant Professor at NIT Raipur
- Dr Chalavadi Vishnu (CSE), selected as an Assistant Professor at IIT Tirupati
- Dr Deepak Bharadwaj PVP (MAE), selected as an Assistant Professor at NIPER Guwahati
- Mr Harsh Raj Gond (DES), IITH Alumni, received the recognitions at National & International Film Festivals
- Dr Hemanth Kumar Ch (CE), selected as an Assistant Professor at IIT Dharwad
- Mr Jayasimha Reddy Ravula (EE), bagged the All India Rank-217 position in UPSC 2022
- Dr Konjengbam Anand (CSE), selected as an Assistant Professor at IIT Dharwad
- Dr Krishnarjun Banerjee (PHY), won the Prestigious Marie Curie Postdoctoral Position from the Queen Mary University of London
- Mr Kumar Shaurav (LA), selected as an Assistant Professor at IIM Ranchi
- Dr Narayanswamy Sake (MSME), IITH Alumni, was selected as an Assistant Professor at IIT BHU
- Dr Pragati Shrivastava (CSE), selected as an Assistant Professor at IIT Jammu
- Dr Priyanka Verma (CHY), selected as an Assistant Professor in the Department of Chemistry IIT Delhi
- Dr Sailaja Rajanala (CSE), selected as an Assistant Professor at Monash University, Australia
- Dr Sanjiv Kumar (LA), selected as an Assistant Professor at IIM Sirmaur, Himachal Pradesh & then IIT Kanpur
- Dr Santosh Kumar Varanasi (CHE), selected as an Assistant Professor at IIT Jodhpur
- Dr Sivaganesh Selvaraj (CE), selected as an Assistant Professor position at The Hong Kong Polytechnic University
- Dr Sudarshan Kottai (LA), selected as an Assistant Professor at IIT Palakkad
- Ms Sumana Som (DES), selected as an Assistant Professor at IIT Jodhpur
- Mr UmaMaheshwar Reddy B (MAE), bagged the All India Rank-270 position in UPSC 2022
- Ms Uma Harathi N (CV), bagged the All India Rank-3 position in UPSC 2022
- Mr Srinivasulu Kanaparthi have been featured in the Stanford University (SU) and Elsevier top 2% of world-renowned scientists his research in 2023

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