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ABOUT THE INSTITUTE

International Institute of Information Technology Hyderabad (IIITH) is an autonomous university, founded as a not-for-profit public private partnership (N-PPP) in 1998, and is the first IIIT in India under this model. Over the years, the institute has evolved strong research programmes in various areas, with an emphasis on technology and research with applications to industry and society.

The institute facilitates interdisciplinary research and a seamless flow of knowledge. Several world-renowned centres of excellence are part of IIITH’s research portfolio. It has established various joint collaborations and co-innovation models via an industry outreach arm. This spans significant national and multinational companies.

Its innovative curriculum allows students the flexibility of selecting their courses and projects. Apart from academics, the institute provides students with a comprehensive environment that promotes art and culture, sports, societal contributions and self-governance. Even undergraduate students get to participate in ongoing research and technology development - a rare opportunity in India. As a result, a vibrant undergraduate programme co-exists along with a strong postgraduate programme.
GOVERNING COUNCIL

Prof. Raj Reddy
(Chairman)
University Professor of
Computer Science &
Robotics, School of
Computer Science,
Carnegie Mellon University
(CMU), Pittsburgh, USA

Ms. Debjani Ghosh
President, National
Association of Software
and Service Companies
(Nasscom), New Delhi

Mr. C Srinivasa
Raju (Srini Raju)
Chairman, iLabs Group,
Hyderabad

Mr. Ajit Rangnekar
Director General,
Research and
Innovation Circle of
Hyderabad [RICH]
Hyderabad

Prof. Sanghamitra
Bandyopadhyay
Director, Indian Statistical
Institute (ISI) Kolkata

Prof. Subhasish
Chaudhuri
Director, Indian Institute
of Technology (IIT)
Bombay

Dr. Gagandeep
Kang
Professor, Christian
Medical College (CMC)
Vellore

Mr. Jayesh Ranjan
(Ex-officio) Principal
Secretary, Industries &
Commerce & IT
Departments,
Govt of Telangana

Ms. V Karuna, IAS
(Ex-officio) IAS, Special
Chief Secretary to Higher
Education,
Govt of Telangana

Mr. Dlipkumar
Khandelwal
Managing Director,
Deutsche Bank

Ms. Anu Acharya
CEO, MapMY Genome

Prof. P J Narayanan
(Ex-officio) Director,
International Institute of
Information Technology,
Hyderabad (IIITH)
Prof. Kishore Kothapalli
(Ex-officio) Dean (Academics),
International Institute of
Information Technology,
Hyderabad (IIITH)

Prof. C V Jawahar
(Ex-officio) Dean (RnD),
International Institute of
Information Technology,
Hyderabad (IIITH)

Prof. K S Rajan
(Secretary), Registrar,
International Institute of
Information Technology,
Hyderabad (IIITH)

PANEL OF PAST DIRECTORS

Prof. Rajeev Sangal
Former Director, Indian Institute of
Technology, Banaras Hindu University
(IIT BHU), Varanasi

Prof. Narendra Ahuja
Donald Biggar Willet Professor of Engineering, University of
Illinois, USA

Dr. Vinton G Cerf
Vice President and Chief
Internet Evangelist, Google

ADVISORY BOARD

ALUMNI OBSERVERS

Dr. Sujit Kuthirummal
Senior Staff Software Engineer
Waymo, USA

Ms. Deepthi Singh Sharma
Director, Software Engineering,
Walmart Labs, India
Dear Graduates of 2023,

Congratulations to you all for successfully completing the rigours of your respective degrees and moving on to the next phase of your lives. IIIT Hyderabad truly lives through its graduates, who build products, establish companies, make technologies, help communities, and more in different corners of the world. IIITH’s aspiration is to transform each student into competent, creative, and caring professionals, who carry a little bit of the Banyan spirit in their hearts as they travel their chosen paths. We sincerely hope that each one of you will actively engage with the institute, playing a significant role in its future growth and success.

IIIT Hyderabad completes 25 years of its journey soon. The institute was established with high hopes, with the larger society as its benefactor. We are proud to have achieved much in these years. All of it is due to the dedication and enthusiasm displayed by its students, faculty, administration, and the alumni. Now, as the newest members of the IIITH alumni community, the responsibility of shaping the institute’s future and making it even more remarkable rests also on your shoulders. Let us work together to ensure the next phase of the institute’s journey is productive and memorable.
PROFILE OF THE CHIEF GUEST

Nobel Peace Laureate
Kailash Satyarthi

Mr. Kailash Satyarthi, a prominent social reformer and Nobel Peace Laureate, is an unwavering advocate for the marginalized and voiceless. In 2014, he was honoured with the Nobel Peace Prize for his tireless crusade against the oppression of children and youth, and his unwavering commitment to ensure every child’s right to education. With Satyarthi Movement for Global Compassion, he exemplifies a life guided by compassion, setting an unmatched standard in the field of social reforms.

Through his organization Bachpan Bachao Andolan, Mr. Satyarthi has liberated more than 100,000 children from child labour, slavery, trafficking and other forms of exploitation and developed a successful model for their education, rehabilitation and reintegration into mainstream society.

He is also the founding president of the Global Campaign for Education, a civil society movement working to end the global education crisis. He successfully spearheaded a countrywide movement to make education a Constitutional Provision which subsequently paved the way for the Right to Free and Compulsory Education in India in 2009.

He has been at the forefront of driving child related agendas into the United Nations Sustainable Development Goals (SDGs) which resulted in the UN Secretary General appointing him an SDG Advocate in 2021. Kailash Satyarthi Children’s Foundation is ensuring an end to exploitation of children in India and around the world by addressing the inequality, injustice and discrimination that lie at the core of child labour.

In 2016, Mr. Satyarthi launched Laureates and Leaders for Children, a platform bringing together Nobel Laureates and leaders committed to working together for the world’s most vulnerable children. Alongside former child labourers and students, he also launched the 100 Million campaign in 2016 to inspire and mobilize young people to stand up and act for their own rights and the rights of their peers.

Mr. Satyarthi has received several prestigious awards including the Parliamentarians for Global Action Defender of Democracy Award (2009-USA); Alfonso Comin International Award (2008-Spain); Robert F Kennedy Human Rights Award (1995-USA); Medal of the Italian Senate (2007-Italy); Friedrich Ebert Stiftung Human Rights Award (1999-Germany); Wockhardt Foundation, Lifetime Achievement Award (2019); Mother Teresa Memorial Award for Social Justice (2019); Rotary International Award of Honour (2022-USA); Honorary Doctorate Degree for Social Justice and Education, Amrita University (2022-India) among many other accolades. In 2017, he received the Guinness World Record for Largest Child Safeguarding Lesson. Mr. Kailash Satyarthi envisions a world where the youth realizes its true potential as the agent of positive social transformation.
ACADEMIC PROGRAMMES

The Institute has high-quality B.Tech programmes in Computer Science Engineering (CSE) and Electronics and Communication Engineering (ECE). An innovative curriculum gives ample flexibility in selecting courses and undertaking research projects at the undergraduate level. Our trans-disciplinary programmes effectively combine Computer Science with domains such as Natural Sciences, Linguistics, and Humanities. Our Master’s programmes include both technology and domain areas. I am delighted to inform you that over 37% of today’s graduates – 195 out of 519 – earned a degree based on a high-quality thesis. This includes 25 students graduating with a Ph.D. degree – the highest so far in one academic year.

IIIT Hyderabad has several admission channels such as the JEE Mains, multiple Olympiads, SAT examinations, an in-house Undergraduate Entrance Examination (UGEE), and a lateral entry scheme into the dual-degree programmes for students completing their 2nd year B.E. or B.Tech from other institutes. The Special Channel (SPEC) admissions for geographically diverse candidates are extended to 30 students this year. In the last round of admissions, we achieved our target of admitting 25% of women students through the JEE Channel. This year, we started a Boards channel that is open to students based on the 12th class performance and passion for humanities and science to the transdisciplinary programs in those areas. Starting this year, IIIT Hyderabad is recognizing the specialization in the Master of Science by Research degree by awarding a specialization certificate based on the broad area of the thesis.

IIIT Hyderabad extended its B.Tech student exchange program to students from JK LaxmiPat University, Jaipur. These students spent a semester at IIIT Hyderabad and earned academic credits.
ACADEMIC PROGRAMMES

The school of multidisciplinary computing runs several academic programmes at the institute. These programs at the undergraduate and postgraduate levels combine course work with research and development. Students get actively involved with technology development, some of which has been adopted by the industry. The institute offers:

**Single Degree Programmes**

- B.Tech in Computer Science and Engineering (CSE)
- B.Tech in Electronics and Communication Engineering (ECE)

**Dual Degree Programmes**

- B.Tech in Computer Science and Engineering and Master of Science in Computer Science and Engineering by Research (CSD)
- B.Tech in Electronics and Communication Engineering and Master of Science in Electronics and Communication Engineering by Research (ECD)
- B.Tech in Computer Science and Master of Science in Computational Linguistics by Research (CLD)
- B.Tech in Computer Science and Master of Science in Computational Natural Sciences by Research (CND)
- B.Tech in Computer Science and Master of Science in Computing & Human Sciences by Research (CHD)

Postgraduate Programmes in IT and its applications to various related fields:

**Master of Science by Research**

- Master of Science in Computer Science and Engineering by Research
- Master of Science in Electronics and Communication Engineering by Research
- Master of Science in Computational Natural Sciences by Research
- Master of Science in Computational Linguistics by Research
- Master of Science in Bioinformatics by Research
- Master of Science in IT in Building Science by Research
- Master of Science in Civil Engineering by Research
M.Tech

M.Tech in Computer Science and Engineering
M.Tech in Computer Science and Information Security
M.Tech in Product Design and Management
M.Tech in Computer Aided Structural Engineering

Doctor of Philosophy

Computer Science and Engineering
Electronics and Communication Engineering
Computational Natural Sciences
Bioinformatics
Computational Linguistics
Civil Engineering
IT in Building Science
Spatial Informatics
Cognitive Science
Human Sciences

PG Student Status Programme (PGSSP)
For working professionals in Hyderabad who are keen on pursuing their interest in a wide range of disciplines.

Master of Science in Information Technology (MSIT)
A two year innovative multi-university interdisciplinary post-graduate programme in Computer Science offered by Consortium of Institutions of Higher Learning (CIHL), formed by the Universities.

Along with high caliber interdisciplinary IT education, IIITH also grooms global citizens. The overall nurturing of each student is achieved through an integrated curriculum with a wide range of IT courses, relevant research projects, interaction with industry, preparation in entrepreneurship, courses in languages, humanities, social sciences, and a strong programme in human values.
The IIIT Gold Medal is awarded in recognition of outstanding academic performance throughout the year to the student with the highest cumulative grade point average in his/her graduating class. The IIIT Gold Medal is awarded to:

**Pratyanshu Pandey**  
B.Tech in CSE

**Charchit Gupta**  
B.Tech in ECE

**Arpan Dasgupta**  
Dual Degree in CSE

**Dipanwita Guhathakurta**  
Dual Degree in ECE

**Jai Bardhan**  
Dual Degree in CNS

**K V Aditya Srivatsa**  
Dual Degree in CL

**Aakash Singh**  
M.Tech in CSE

**Nitin Kumar**  
M.Tech in CSIS

**Saumic Aralyer**  
M.Tech in CASE

**B.Tech - Best All Rounder- 2022**

Notable contributions and performances in different areas such as academics, extracurricular activities and IIITH services were considered in the selection of the best all rounders.

**Kandala Savitha Viswanadh**  
Dual Degree in ECE
Vijay Kumari Sharma & Ritesh Kumar Tiwari Endowment for Outstanding MS Thesis Award

IIIT Hyderabad gratefully acknowledges the generous contribution of 50 lakhs from Mrs Vijay Kumari Sharma for the establishment of The Vijay Kumari Sharma & Ritesh Kumar Tiwari Endowment. It is our privilege to honour the memory of Ritesh Kumar and his passion for research, with the Outstanding MS Thesis Award.

Ritesh Kumar Tiwari joined IIITH as a MS student in 2004 under Prof. Kamalakar Karlapalem. His main area of research interest was in the domain of information security and particularly in attack resilient protocols, access control, security in workflow management systems and security architectures for semantic web. His research work was supported by Microsoft Research Ph.D Fellowship. He also received the IEEE Best Student Paper Award in Services Computing in 2006-07 for his work on SLA Driven Process Security through Monitored E-contracts.

In December 2007, Ritesh was diagnosed with leukaemia. He underwent several rounds of chemotherapy at Apollo Hospitals over the course of the next two years. His guide Prof. Kamalakar Karlapalem whom he referred to as his academic father, the then director Prof. Sangal and innumerable friends and staff of IIITH stood by him taking turns at the hospital and hostel as he worked through his condition. He lost his father in 2008. Being the only child of his ageing parents, Ritesh took care of his mother even while undergoing treatment. Despite the advanced stage of the disease, Ritesh fought back very courageously and never gave up hope. Ritesh left no stone unturned in fighting back at the disease. He passed away on 4 October 2009 after a valiant battle.

Ritesh was an extremely cheerful person and very dedicated to research. All his friends dearly remember him to be a humble, good natured, and warm person. Through his persistence, dedication and determination, Ritesh left an indelible mark on the lives of everyone around him.

The endowment will enable every year:

- The Vijay Kumari Sharma & Ritesh Kumar Tiwari Outstanding MS Thesis Award - recognising with a medal and a certificate, the outstanding MS thesis among all theses successfully defended during the academic year and
- A contribution in the name of the awardee to support financially needy undergraduate student(s).

**OUTSTANDING MS THESIS Awardees**

**2021**

**Karnik Ram** for his research on RP-VIO: Robust Plane-based Visual-Inertial Odometry for Dynamic Environments under the guidance of Prof. K Madhava Krishna.

**2022**

**Utkarsh** for his research on A Fine Grained Approach to Computational Problems on Noisy Intermediate-Scale Quantum Hardware under the guidance of Prof. Harjinder Singh.
IIIT Hyderabad is organised as a set of research centres and laboratories instead of schools and departments. Each research centre focuses on a broad problem area and brings together experts from varied backgrounds to conduct research and development on specific aspects in a problem area, constantly pushing the boundaries of research to the next level. The research centres and laboratories at IIITH are either focussed on creation and development of new technologies or application of technologies to unusual domains in innovative ways.

Its research activities are organised around 12 technology, 9 domains, 3 development, 3 combined centres and 1 Technology Innovation Hub. Each centre has one or more research labs based on their areas of focus headed by a full-time faculty member of IIITH. All faculty are affiliated to one or more centres or labs, depending on their areas of research. The research-focused B.Tech students, MS and Ph.D students are also affiliated to the centres, based on their area of thesis/research. All research activities of the centre are overseen by the Dean, R&D. The centres also organise conferences or other activities in their areas and conduct executive education programmes. The academic activities are organised directly at the level of the institute (overseen by the Dean, Academics).

The institute engages with industry through various models (e.g., research consultancy, sponsor research, technology transfer and co-innovation). All industry engagements are led by a faculty member and managed by the Industry Outreach office.
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<tr>
<td><strong>COMBINED</strong></td>
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<td>Kohli Center on Intelligent Systems (KCIS)</td>
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<td>Smart City Research Centre (SCRC)</td>
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<td>Applied Artificial Intelligence (AI) Research Centre (INAI)</td>
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<td><strong>TECHNOLOGY</strong></td>
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<td>Signal Processing &amp; Communications Research Center (SPCRC)</td>
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<td>Data Sciences and Analytics Center (DSAC)</td>
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<td>Language Technologies Research Center (LTRC)</td>
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<td>Robotics Research Center (RRC)</td>
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<td>Center for Security, Theory and Algorithms (CSTAR)</td>
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<td>Software Engineering Research Center (SERC)</td>
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<td>Center for Visual Information Technology (CVIT)</td>
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<td>Center for VLSI and Embedded Systems Technology (CVEST)</td>
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<td>Computer Systems Group (CSG)</td>
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<td>Machine Learning Lab (MLL)</td>
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<td>Centre for Quantum Science and Technology (CQST)</td>
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<td>Centre for Computational Social Science (C2S2)</td>
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<td><strong>DOMAINS</strong></td>
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<td>IT for Agricultural and Rural Development (ITARD)</td>
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<td>Center for IT in Building Science (CBS)</td>
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<td>Cognitive Science (CogSci)</td>
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<td>Center for Computational Natural Sciences &amp; Bioinformatics (CCNSB)</td>
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<td>Earthquake Engineering Research Center (EERC)</td>
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<td>Human Sciences Research Group (HSRG)</td>
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<td>Center for Education Technology and Learning Science (CETLS)</td>
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<td>Lab for Spatial Informatics (LSI)</td>
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<td>Research Centre for eGovernance (RGeG)</td>
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<td><strong>DEVELOPMENT CENTERS</strong></td>
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<td>Center for Innovation and Entrepreneurship (CIE)</td>
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<td>Human Values Cell (HVC)</td>
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<tr>
<td>Rajreddy Center for Technology and Society (RCTS)</td>
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The team of faculty, research students, research staff, and undergraduate students produced 287 papers in top rated conferences and peer reviewed journals. In all, 25 of our Ph.D students have external competitive fellowships from TCS, IHub Data, Govt, IIT Palakad, etc. and several more students qualified for CSIR and UGC grants.

IIITH collaborates with several national and international institutions. The institute plays leading roles in several national, multi-institutional projects involving dozens of institutions in a wide range of areas starting from machine translation to information retrieval and perceptual engineering.

The institute constantly paves the path towards being a globally visible academic institution with positive impact on society. IIITH works with several corporates on joint work and is actively pushing for the adoption of our research to the world out there.
RESEARCH & COLLABORATIONS

IIIT Hyderabad is structured around research centres and labs and not conventional departments. Each research centre focuses on a broad problem area and brings together experts from varied backgrounds to conduct research and development on specific problem areas, constantly pushing the boundaries of research to a higher level. The research centers, laboratories and domain centers utilise technologies in diverse disciplines to find innovative solutions to challenges faced by society. This year, the institute clinched 1 consortium projects, 2 joint collaboration projects and over 34 faculty-driven individual projects. Apart from R&D projects, 9 faculty members were awarded faculty research award grants/unrestricted grants from Amazon, Meta, Adobe, IBM, Qualcomm, etc. A major research activity has been going on the R&D projects sanctioned by MeitY under National Language Translation Mission (NLTm) mission of Govt of India. The projects include Machine Translation (MT), Optical Character Recognition (OCR), etc with large activity taking place in that front. MeitY has also funded the Blockchain and Machine Learning Powered Unified Video Know Your Customer Framework.

IIITH’s Raj Reddy Center for Technology and Society (RCTS) is leading the way toward a tech-savvy rural India. A think-tank is going global, percolating the essence of emerging technologies in public health and grassroots education to solve societal problems at the base of the socio-economic pyramid. The Raj Reddy Center will facilitate solutions like tele-medicine and remote consultation for the workflow models of various healthcare NGOs to ease the shortage of doctors in rural areas. RCTS has entered into collaborations with leading NGOs to understand the esoteric needs of different geographies and help them with home-grown solutions by local innovators. Virtual IoT Labs is one such initiative that enables remote access of the lab, through a combination of technologies. IIITH has also partnered with Telangana state machinery to provide an Innovation hub at the school level. The IIITH CogSci lab has designed “Ask Agastya”, a speech interface application for Bangalore-based NGO Agastya International Foundation.

The institute collaborates with several national and international institutions and plays lead roles in several multi-institutional projects and the list include LLG – Butor (Reunion Island – France), Carnegie Mellon University, University of Pennsylvania, INRIA, UC Berkeley, Hebrew University, Bauhaus University, University of the Aegean, University of Dundee, Oxford University, Dublin City University, University of Colorado, Ecole Centrale Paris, Oak Ridge National Laboratory, Aalto University, University of Cambridge, University of Quebec, Tampere University of Technology, Vrije Universiteit, National University of Rosario, University of Burgundy, Uppsala University, University of Mainz, University of Paris-Sud, Michigan State University, University of Maryland, University of Shanghai, University of Leiden, Mälardalen University, University of Liverpool, University of Bordeaux and Lawrence Berkeley National Laboratory, the University of Aizu, Innpolis University, University of Agder, Yonsei University and Kathmandu University (KU), Nepal, Osmania Medical College, Hyderabad, Christian Medical College (CMC), Vellore, All India Institute of Speech and Hearing (AISH), Mysore, KG Reddy College of Engineering and Technology and Kakinada Institute of Engineering & Technology, Andhra Pradesh

The institute is associated with national reputed organisations such as DRDO, ISRO, Dept. of Atomic Energy (DAE), MCEME, NRDC, BDL, BEL, Airport Authority of India (AAI), Survey of India etc. We have sponsored research projects from DST, DBT, MeitY, MHRD, SERB etc. IIITH collaborates with institutions like Aravind Eye Hospital and Sree Chitra Tirunal Institute for
Medical Sciences to take our research directly to the grass-root level. IIITH also works with several industry-funded research projects which include Meta, Texas Instruments (TI), Bosch, Nissan, TCS, Intel, Amazon, Honeywell, NVIDIA, Rockwell Collins, Flipkart, Novartis, Microsoft, Hitachi, Saint Gobain, Siemens, CA Technologies, Mathworks, Renault-Nissan, Wells Fargo, OpenText, Qualcomm, Google, Applied Materials, Inshorts Media Labs, Cyient, STAR Sports India Pvt Ltd, Rapyuta Robotics Company Limited, Japan, Huawei Technologies India Private Limited, Airbus Group India Private Limited, Fujitsu Ltd, etc.


Collaboration with the European Union (EU) in a consortium project (5 from India and 5 from EU) funding towards establishment of Robotics Hub in India (one of the Hubs in IIITH Hyderabad). Consortia include Academic and Industry and led by Dr. Spandan Roy with Co-PI Prof. K Madhava Krishna, Dr. Harikumar Kandath from IIITH Hyderabad. IIITH’s collaboration with Ripple, a leading Silicon Valley financial technology company, continues for the Blockchain Centre of Excellence with a total support of $1M USD for over 5 years.
RESEARCH PROJECTS

CONSORTIUM PROJECTS

**LTRC**

Parameswari Krishnamurthy

Discourse Integrated Dravidian Language to Dravidian Language Machine Translation (DL-DiscoMT)

Leader: AU-KBC, Anna University, Members: i) IIT Hyderabad, ii) IIT Hyderabad, iii) ICFOSS Trivandrum, iv) MIT Manipal, v) C-DAC Noida, vi) DAIICT Gandhinagar.

Ministry of Electronics & Information Technology

**C2S2-Precog**

Homophily and the Spread of (Dis) Information in Social Media

Ponnurangam Kumaraguru - jointly collaborated with Swiss National Science Foundation (SNSF, Switzerland).

Indian Council for Social Science Research (ICSSR)

**RRC**

Capacity building for Human Resource Development in Unmanned Aircraft System (Drone and related Technology)

Harikumar K - jointly collaborated with IIT Madras, IIT Bombay, IIT Kanpur, IIsc Bangalore (total 30 Institutes involved)

MeitY

**INDIVIDUAL RESEARCH PROJECTS**

**C2S2-Precog**

Ponnurangam Kumaraguru

Social commerce, 3D imaging, and 360 degree view: A Winning Combination of Social Media and e-commerce

Enso Logic Commerce Pvt. Ltd.

Community Detection and Characterization using Social Media Data Centre for Artificial Intelligence & Robotics (CARS Project)

**CCNSB**

Chittaranjan Hens

Spatio-temporal Signal Propagation in complex networks 1 DST

Abhishek Deshpande

Dynamical equivalence of reaction systems 1 SERB

Bhaswar Ghosh

Antigenic variation in the malaria parasite Plasmodium falciparum: Measuring switching rates using single cell transcriptomics and machine learning SERB

**CQST**

Arun Kumar Pati

Nomination for JC Bose National Fellowship Science and Engineering Research Board (SERB), DST

**CSTAR**

Shantanav Chakraborty

Preparing ground states of Hamiltonians using quantum computers: Novel approaches for solving optimization problems (Ground-HAM-QC) 1 SERB

**CVEST**

Anshu Sarje

Integrated handheld system for screening of TBusing cost effective, labelfree surface plasmonic resonance 1 SERB

Affab M Hussain

Fall Prevention Device Heritage Elder Care Services Private Limited Promotion of University Research and Scientific Excellence (PURSE) - Project 1 DST
CVIT
Avinash Sharma
Learning based 2D cloth draping solution for 2D Virtual Tryon | NETXCELL LTD

Vineet Gandhi
Apple Factory Monitoring Project
Apple Inc.,
Visual Saliency for Videos | SAMSUNG

HSRG
Isha Dubey
Constructing the Ocean: Indian Ocean Infrastructures and Thick Transregionalism of the Dawoodi Bohras
Aarhus University, Denmark

Radhika Krishnan
Reimagining land futures for Sustainable Development in India
The Swedish University of Agricultural Science, Uppsala, Sweden

LTRC
Dipti Misra Sharma
Integrating Sanskrit with Modern Subjects Project | Central Sanskrit University

Manish Srivastava
Query Focused Synthetic Narrative Generation from Tables and provide solution | LTI/Inditree Limited

Parameswari Krishnamurthy
A Syntactic Parser for Tamil: A Data-driven Approach | Tamil Virtual Academy

Peter M Scharf
Technology adaptation Project – Sanskrit data-entry and Vedic character display
Central Sanskrit University

MLL
Charu Sharma
Advancing Self-Supervised 3D Point Cloud Representations with Domain Adaptation, Optimal Transport, and Prototypical Learning | SERB

Geometric Representation Learning with Massive and Dynamic 3D point Clouds
Fujitsu Ltd

Sujit P Gujar
Achieving Fairness in Federated Learning Models | SERB

MLL
Girish Varma
Navigation under Challenging Visibility Conditions | DRDO

Product Labs
Veera Prakash Yalla
Development of AI Based Search Engine
Garden Reach Shipbuilders & Engineers Limited

RRC
K Madhava Krishna
Autonomous Driving in Adverse Conditions
ZF India Private Limited

Collaborative SLAM algorithm capable of running on low powered computation device in real time | DRDO

Task and Motion Planning for Visual Object Rearrangement
Tata Consultancy Services

Harikumar K
Drone based inspection studies for partially closed/closed surfaces
Airbus Group India Private Limited

Online Planner for UTM
ROCKWELL COLLINS India Enterprise Pvt Ltd

SERC
Raman Saxena
Study on Design Interventions for Metaverse | Facebook

SPCRC
Arti Yadri
DST-Inspire-Dr. Arti Yadri | DST

Sachin Chaudhari
Remote lab | TIH FOUNDATION FOR IOT AND IOE

AI/ML and IOT-based water Monitoring for Smart Cities | TIH FOUNDATION FOR IOT AND IOE

Santosh Nannuru
AI Based Specific Feature Extraction of Modern Radars | DRDL, DRDO, Govt of India (CARS Project)
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<td>Naresh Manwani</td>
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ACHIEVEMENTS

Our researchers received national and international recognition at academic conferences and competitions. Some of the special achievements this year include:

**Academic**

Prof. Ashok Kumar Das was one of the Advisory Board members of the 5th International Congress on Blockchain and Applications (BLOCKCHAIN’23), Guimarães, Portugal.

Prof. K S Rajan was nominated by the Ministry of Agriculture & Farmers' Welfare to be one of the IT Advisory committee members towards speedy and systematic implementation of Krishi Decision Support System project to be carved-out from Visualisation of Earth Observation Data and Archival (VEDAS) portal.

Prof. Pradeep Kumar Ramancharla was appointed the new Director of Central Building Research Institute (CBRI) at Roorkee.

Dr. Nazia Akhtar authored Bibi’s Room: Hyderabad Women and Twentieth-Century Urdu Prose, co-published by Orient BlackSwan and New India Foundation.

Dr. Vinooh Alluri was one of the editors for a special issue of Frontiers in Neuroscience journal on It is a Matter of Matters: Deciphering structural and functional brain connectivity.

The 9th edition of Research.com recognized Prof. Ashok Kumar Das as best scientist in the discipline of Computer Science. His H-index is 65; Citations is 12,220; Publications is 270; world ranking is 1,560 and national ranking is 10.
IIITH’s Smart City Living Lab team won the best user application award in a Korean Hackathon. Team was led by Leo J Francis along with Vaibhav Naware, Ushasri Mogadalli, Gaurav and Sasidhar Varada.

IIITH students M Rajesh, M Satish Kumar and T Thomas David won first place for their low-cost IoT-based sensor for effective water management in Telangana State Pollution Control Board’s hackathon.

Adobe Inc. has awarded Prof. Vasudeva Varma, Dr. Sujit Gujar and Dr. Makarand Tapaswi, Adobe Research Gift Awards for their research activities. The award is in the form of an unrestricted gift to the academic institution under the names of the researchers who submitted the proposal.

Research work by Dr. Chittaranjan Hens on Emergent Stability in Complex Network Dynamics has been published in Nature Physics.

VidyutVanika22 was the winner with a normalized score of 75% and became the only second broker to win the PowerTAC tournament in two consecutive years. The team members were Dr. Praveen Paruchuri and Dr. Sujit Gujar from IIITH, Dr. Easwar Subramanian and Dr. Sanjay Bhat from TCS and Sanjay Chandlekar was the lead student from IIITH.

IIITH researchers Jaidev Shriram, B.Tech student; Dr. Makarand Tapaswi and Dr.Vinoo Alluri created a music algorithm that curates and plays appropriate background music as you read books. The research team took the soundtrack from the Harry Potter movie and aptly juxtaposed it with the novel. This independent project walked away with the prestigious Brave New Idea Award at the 23rd International Society for Music Information Retrieval (ISMIR-2022).

Advaita Saxena, Ph.D in ECE and Pragati Gupta, Ph.D in CSE were awarded the prestigious Kohli Research Fellowship Program, a competitive Fellowship program for pursuing PhD under the Kohli Center on Intelligent Systems (KCIS) for the Academic Year 2022-23.
Bafna Jainit Sushil, Master of Science Computational Linguistics was a semifinalist at the online Amazon Web Services (AWS) deepRacer student league 2022.

Shubodh Sai, Master of Science student working under the supervision of Prof. Madhava Krishna in the area of Visual Place Recognition has been selected as a winner of the 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2022) Outstanding Reviewer Award for his concerted review process.

Vivek Mathur, UG3-CND, working under the supervision of Prof. Tapan Kumar Sau participated in the Summer Research Fellowship program from June 2022 - August 2022 organized jointly by Indian National Science Academy (INSA), Indian Academy of Sciences (IAS) and National Academy of Sciences, India (NASI). The program was onsite at IIT Delhi, Laboratory of Electronic Materials with Dr. Niran Ray, Department of Materials Sciences and Engineering. He was selected in the “Engineering including Computer Sciences” category.

Dr. Pawan Kumar was awarded the Qualcomm Faculty Award-2022 in March 2022.

Prof. Ashok Kumar has been included in the list of Web of Science (Clarivate™) Highly Cited Researcher 2022 in recognition for his exceptional research performance demonstrated by production of multiple highly cited papers that rank in the top 1% for field and year.
Research of Dr. Y Raghu Reddy, Prof. Vasudeva Varma and Lalit Mohan S on Information security search engine, has been granted a U.S Patent. The title of their invention is System and Method for Retrieving and Extracting Security Information.

Dr. P Pravin K V Rao has been selected for ISET D K Paul Research Award for best Ph.D thesis in Earthquake Risk Reduction in India for the year 2022. The award is given once in 4 years to only one person with an international reputation and excellent standing in the area of expertise. The award carries a cash prize of Rs. 60,000 and a citation.

Dr. Charu Sharma’s Start-up Research Grant (SRG) proposal on Advancing Self-Supervised 3D Point Cloud Representations with Domain Adaptation, Optimal Transport, and Prototypical Learning was approved by Science and Engineering Research Board (SERB), a statutory body under DST.

Dr. Shantanav Chakraborty’s Start-up Research Grant (SRG) proposal on, To Develop Novel Approaches to Solving Optimization Problems Using Quantum Computers was approved by Science and Engineering Research Board (SERB), a statutory body under DST.

Prof. Ponnurangam Kumaraguru received a research grant of CHF 212,104 along with ETH Zürich to study and work on Homophily and the Spread of (Dis)Information in Social Media.
**Best Paper Awards**

Shri Vidhatri M M, UG4, CND received the best paper award in the Sensors and Measurements section for her work on Development of sensor for monitoring the integrity of lubrication system of heavy duty pumps in nuclear reactors at the 2nd IEEE International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEEET 2022) in NIT Patna from 24 - 25 June 2022.

A team from Electronics and Robotics Club (ERC) was the second runner-up in the Home Automation Event organized by Atomberg Technologies at Techfest, IIT Bombay from 16 to 18 December 2022. Team members were Rishabh Agrawal, Aditya Sehgal, Tadimirari Desika Sreeharsha and Akshit Gureja (all UG3 - UG2k20).

Durga Prasad Dhulipudi working in Honeywell and a part time Ph.D student of Dr. K S Rajan was awarded the best paper award for his research work on Machine Learning for Multiclass Geospatial Objects—Need for Accelerated Mapping of Airports at the ISRS-ISG National Symposium held at HICC Hyderabad from 15 - 17 November 2022.

Aniket Chandekar and Anuj Malviya pursuing M.Tech in Product Design and Management (PDM) were finalists at the Salesforce Design Challenge held on a national scale with students from prestigious design colleges like NID Bengaluru, IIT Delhi, MITID Pune, and ISDI Mumbai.

Machine Learning Lab students Shailey Mishra and Manisha Padala working under the supervision of Dr. Sujit Prakash Gujar received the First runner-up best paper award for their research work on Fairness with Special Externatilities at the 19th Pacific Rim International Conference on Artificial Intelligence (PRICAI-2022) held from 10 to 13 November 2022 at Shanghai, China.

Research work on Does Audio Help in Deep Audio Visual Saliency Prediction Models by Dr. Vineet Gandhi and his students - Ritvik Agarwal, Shreyank Jyoti, Rohit Girmaji and Sarath Sivaprasad received the best student paper award at the 24th ACM International Conference on Multimodal Interaction (ICMI 2022) held from 7 - 11 November 2022 at Bangalore.

Naga Manoj Makkena, M.S Dual Degree-ECE, working under supervision of Dr. Ubaidulla P received the best paper award for their research work on Trajectory and power optimization for buffer assisted amplify-and-forward UAV relay at the 11th international conference on Communications, Networks and Satellites (COMNETSAT-2022) at Solo, Indonesian Island of Java from 3 - 5 November 2022.

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Aniket Chandekar and Anuj Malviya

Shri Vidhatri M M.

Durga Prasad Dhulipudi

Rishabh Agrawal, Aditya Sehgal, Tadimirari Desika Sreeharsha and Akshit Gureja
Research work by Dr. Nita Parekh and her students were awarded first prizes for their oral presentation at the 3rd International Conference on Bioinformatics and Data Science (ICBDS - 2022), held from 22 - 23 December 2022 at Bengaluru, for their research work on:
- Comparative Analysis of SARS-CoV-2 Variants Across Three Waves in India - Dr. Nita Parekh and her student Kushagra Agarwal.

Ankit Gangwal and his students Shubham Singh and Abhijeet Srivastava were awarded the best paper award for their research work on AutoSpill: Credential Leakage from Mobile Password Managers at Proceedings of the 13th ACM Conference on Data and Application Security and Privacy (ACM CODASPY 2023) held at Charlotte, USA from 24 - 26 April 2023.

Research work on Overcoming Label Noise for Source-free Unsupervised Video Domain Adaptation by Avijit Dasgupta; Prof. C V Jawahar and Karteeck Alahari (Inria) was awarded the Best paper award - Runner up at the Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP-2022) held at IIT Gandhinagar from 8 - 10 December 2022.

Research work on Bringing Linearly Transformed Cosines to Anisotropic GGX by Aakash K T under the supervision of Prof. P J Narayanan received the best paper award at ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D), 2022.

Research work on Interpreting Intrinsic Image Decomposition using Concept Activations by Avani Gupta; Saurabh Saini and Prof. P J Narayanan was awarded the Best paper award at the Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP-2022) held at IIT Gandhinagar from 8 - 10 December 2022.
Other Awards and Recognitions

For the first time in the history of IIITH Sports the girls team won the intercollegiate state level basketball tournament held at B V Raju Institute of Technology (BVIT), Narasapur, Medak district on 13 October 2022.

Kiruthika Kannan working under the supervision of Dr. Ravi Kiran S has been awarded an ACM-W scholarship for attending the ACM MULTIMEDIA - 2022 conference in Lisbon, Portugal from 10 - 14 October 2022.

Poorna Chandra Danamaraju, M.Tech in Product Design and Management course was invited as a guest of honor at the Literature Conclave held at his alma mater - DAV Public School, Hyderabad on 24 August. His book Earthly Realm was launched by his excellency, Mr. Syed Mohammed Ibrahim Khil, the acting consul general of the Islamic Republic of Afghanistan during the Literature Conclave.

Josh Elias Joy, 2nd semester student of M.Tech Product design and Management, won the Odd Inputs and Peculiar Peripherals contest conducted by Hackaday and partnered with Digi-Key Electronics. There were a total of 75 participants from all over the world. In this contest, participants were encouraged to make the strangest, fanciest, flashiest, or most custom computer peripherals, and share that work.
Shri Vidhatri M M, UG4, CND working under the supervision of Dr. Tapan Kumar Sau participated in UNLEASH 2022 conducted at Infosys campus, Mysore from 3 - 11 December. The team of Shri Vidhatri was one of the top 7 finalists among all the teams participating in the innovation lab.

Dr. Vinoo Alluri organized a satellite workshop on Music, Mind, Movement, and Technology (MMMT) for the 23rd International Society for Music Information Retrieval Conference (ISMIR-2022) from 4 - 8 December 2022 at Bengaluru.

IIT Kharagpur (IIT Kgp) recognises Prof. B Yegnanarayana as its Institute Life Fellow. Prof. Yegnanarayana was honoured with this award during IIT Kharagpur’s convocation on 24 December 2022.

Prof. P Krishna Reddy was the General chair at the 10th International Conference on Big Data Analytics (BDA 2022) held from 19 - 22 December 2022 at IIIT Hyderabad.

Dr. Vineet Gandhi was adjudged as an outstanding reviewer at the 39th International Conference on Machine Learning (ICML-2022) held at Baltimore, Maryland from 17 - 23 July 2022.

Dr. Karthik Vaidhyanathan was a co-organizer of the Second International Workshop on Software Architecture and Machine Learning (SAM) held at Prague, Czech Republic on 20 September 2022.
Dr. T K Saroja was felicitated by the Department of Language and Culture, Telangana Government, in association with Arunodaya Kalasamithi on International Women’s Day Celebrations 2023 on 9 March 2023 at Ravindra Bharathi.

Arpan Singh, a third year MS by Research student in Civil Engineering, working under the supervision of Dr. Sunitha Palissy has been offered Ph.D admissions at the Department of Civil Engineering in the Meguro-Numada Laboratory at the University of Tokyo (UTokyo), beginning in the fall of 2023. He has been selected as one of the 8 international candidates for the MEXT scholarship of the Japanese government through a highly competitive screening process.

Deepthi Amuru, a Ph.D student working under the supervision of Dr. Zia Abbas received an award at the Woman Leaders Forum (WLF-2023) on 31 May 2023 at Hotel Crowne Plaza, Dubai under the category Award for Contribution at International Level.

Aditya Agarwal and Bipasha Sen, 2nd year MS by Research students in Computer Science working under the supervision of Prof. C V Jawahar and Prof. Vinay Namboodiri, University of Bath, UK have been offered Ph.D admissions to the highly competitive EECS program at the Massachusetts Institute of Technology (MIT) in the Computer Science and Artificial Intelligence Lab (CSAIL) this in 2023.

IIITH’s Team FLogic comprising of Amul Agrawal, Alapan Chaudhuri, and Aditya Verma beat nearly 1,500 teams from over 250 colleges at the International Collegiate Programming Contest (ICPC).

Anis Fatema, a Ph.D scholar working under the supervision of Dr. Aftab Hussain at the Center for VLSI and Embedded Systems Technology (CVEST) won second prize at Augmenting Writing Skills for Articulating Research (AWSAR- 2022) under the Ph.D category for her popular science story on Breaking the Walls of Chronic Back Pain. The prize carried a cash prize of Rs 50,000.

Ihita G was invited by Global System for Mobile Communications Association (GSMA) and International Telecommunication Union (ITU) to co-chair a session on Diversity 4 Tech Young Leaders Focus Session during the Mobile World Congress (MWC-2023) held at Barcelona, Spain from 27 February 2023 to 2 March 2023.
The Music Club won prizes for the following events/competitions at the cultural event of NIFT Spectrum-23 held in March 2023: 
First place in Battle of Bands – Ants; Second place in Oggy and the Penguins; First place in Duet Singing and First place in Duet Improv (skit)

Fourth-year students, Sriram Devata and Kanakala Ganesh Chandan, won the first and second prizes respectively. Rohit Modee, a Ph.D scholar was also awarded for methodology for innovative usage of ML irrespective of performance of the framework used. Sandeep Nagar, a Ph.D student, was also awarded for the best team name at a conference on Machine Learning for Molecular Sciences (ML4SCIENCE 2023), was held at Germanus Springs Resort at KodaiKanal from 9 – 12 March 2023.

Team Vayu, consisting of Nitin Nilesh (MS, CSE); Sara Spandhana (MS, ECE); Om Kathalkar and Shreyas Gujar (Interns, College Research Affiliate Program - IoT) from SPCRC and SCRC won the Environment Sensing Project Competition (2022) while team AirIoT comprising Ayu Parmar (MS, ECE); Nitin Nilesh (MS, CSE) and Ritik Yelekar (Intern, College Research Affiliate Program - IoT) from SPCRC and SCRC, made it to the short-list. The event was organized by the MegaSense team, University of Helsinki.

IIITH students won medals in Table tennis (Women), Chess (Men) and Swimming (Women) at BITS Arena Sports Fest - 2023 held at BITS Hyderabad on 5 February 2023.

Anis Fatema, Ph.D student working under the supervision of Dr. Aftab Hussain received the Best women-owned business pitch and Best overall pitch award at the WiSe-YP Big Idea Pitch Competition and a prize money of $400 at the IEEE Applied Sensors Conference 2023 (IEEE APSCON 2023) held at Bengaluru on 24 January 2023.
Mallela Jhansi, a 2nd-year Ph.D student working under the supervision of Dr. Chiranjeevi Yarra was selected for Research Week with Google 2023, organised by Google Research India from 29 - 31 January 2023 in Bangalore.

Faculty and students whose research work got patented were given Crystal Awards on the second day of IIT Hyderabad’s annual R&D showcase on 22 January 2023. Here are the details:

- System and method for retrieving and extracting security information - Prof. Y Raghu Babu Reddy, Prof. Vasudeva Varma, Lalit Mohan Sanagavarapu
- System and method for generating queryable structured document from an unstructured document using machine learning - Prof. Manish Shrivastava, Vishnu Ramesh
- System of visualizing and querying data using data-pearls - Prof. Kamalakar Karlapalem, Nahil Jain, Ayush Jain, Nikhil Gagate
- AI driven self adaptive microelectronics circuits - Prof. Zia Abbas, Koushik De, Deepthi Amuru, Khanh Le

G V Ihita, MS student in SPCRC working on IoT security for smart cities under the guidance of Dr. Sachin Chaudhari, was selected as a representative of the Indian delegation and the Generation Connect initiative to attend United Nations agency International Telecommunication Union (ITU)-D Study Group-2 meeting at the ITU Headquarters in Geneva, Switzerland, from 5 - 9 December 2022.
IIIT Hyderabad received an A++ grade from National Assessment and Accreditation Council (NAAC). In all seven criteria of NAAC, the Institute scored an A++ grade with a 3.51 CGPA out of 4.00 scale.

National Institutional Ranking Framework (NIRF) 2023 ranked IIITH 84th among the top 100 universities, and 55th among top 100 engineering colleges.

IIIT Hyderabad has retained its 2nd position in India Today’s Top Engineering Colleges 2023 Survey under Private Category in India.

In the overall category, with government, HEIs, IITs, NITs & IIITs, its position has moved up from 15th position in 2022 to 12th position in 2023.

IIIT Hyderabad has improved its performance according to Times Higher Education’s (THE) Asia Rankings 2023. IIITH’s has moved up from 174th rank in 2022 to 106th rank this year.

A survey conducted by The Week, an Indian news magazine founded in 1982 and published by The Malayala Manorama Co. Ltd ranked IIITH 11 in the Best Engineering Colleges in India category.

Times Higher Education World University Rankings 2023 ranked IIITH ranked among the top 600 universities across the world on the basis of its good score in research and innovation.

A survey conducted by Education World India Higher Education Rankings for 2022 - 23 ranked IIIT Hyderabad All India number 1 among India’s top BE/B.Tech in Computer Science stream.

IIIT Hyderabad ranked number 1 at both, Overall (All India) and in South Zone categories by DataQuest and Cyber Media Research (CMR)’s Best T-School Survey 2023. The survey focus was on undergraduate programs offered at HEI’s / Technical Institutions. The methodology consists of 48 attributes grouped into six sections based on four parameters – PACE

- 30% PLACEMENTS
- 30% ACADEMIC & RESEARCH
- 15% CAMPUS INFRASTRUCTURE
- 25% ENGAGEMENT & OUTREACH ETC
OUTREACH

The Education Outreach of IIIT, Hyderabad manages the executive education programs in collaboration with ed-tech firms. These programs are developed according to the current industry requirements and feedback from industry professionals. These executive education programs are being delivered in a hybrid model and have produced over 4,000 professionals in about four years. Currently, the 21st batch of the Artificial Intelligence and Machine Learning (AI&ML) program: Blockchain and Distributed Ledger Technologies (currently 8th batch) in collaboration with Talent Sprint are in place. This joint initiative was rated as one of the best in the country, being recommended by NASSCOM. A similar program in Software Engineering for Data Science (currently 5th batch) has also seen much traction in the past year.

Other developments in the past year include:

The Education Outreach in collaboration with NGOs - Pravaha, The Rainwater Project and Agastya International Foundation conducted two hackathons on Climate change, and Sustainability using technology for around 70 school students of 9 to 17 years age group from in January and March 2023.

Education Outreach, again, in collaboration with the Indian Institute of Space Science and Technology (IIST): Pravaha and Agastya International Foundation organized a 14-day residential summer program called Episteme in June 2023.

A nine-month PG Certification course was offered by IIIT-Hyderabad in partnership with TalentSprint on IoT and Smart Analytics.

This year, our flagship annual R&D Showcase was held on 21st January 2023. About 300+ research posters and, demos from 28 research centres have been demonstrated to the visitors. We also organized an exclusive roundtable session on Academics, in the time of ChatGPT to mull and brainstorm over the future of academics and research in the times of ChatGPT.

One of IIIT Hyderabad’s missions is to promote innovation, nurture start-ups and incubation to make a positive impact on society. Towards this direction, The Centre for Innovation & Entrepreneurship (CIE) was set up in 2008, and it has grown to be the largest academic incubator in the country. In the past 15 years, we have grown to be the largest academic incubator in the country, housed over 400+ startups that have raised about 200Cr funding, and created over 2000 employment opportunities. CIE organizes focused programmes on emerging technologies, regularly. Some are:

CIE, along with iHub, has also launched the Mobility Accelerator in May 2023.

Optum Global Solutions (India) Private Limited, part of Optum and United Health Group (a Fortune 5 company), announced the launch of ‘Optum Startup Studio’ in India, in partnership with IIIT-H, with the aim of fostering innovative ideas and startups to solve healthcare’s toughest problems to accelerate value delivery. This year, five startups were successfully funded and mentored under the program.

IIIT Hyderabad, in collaboration with Centific, an AI and digital technology company based in Redmond, USA has launched the ‘AI Innovation Challenge’.
Pernod Ricard India Foundation (PRIF), a non-profit subsidiary of Pernod Ricard India (P) Ltd., (PRPL) has collaborated with CIE-IIIT-H through its CSR initiative. Over a year, five startups have been funded with over one crore. It aims to provide a platform for Women Entrepreneurs and Women-led Social Enterprises with access to mentorship, business development support, and technology etc.

ZF India, a technology company supplying systems to automobiles, has signed an MoU with IIIT Hyderabad for collaboration in research projects.

CIE’s Mentor Cafe, a one-of-its-kind initiative - where many startups get to meet many mentors in a single sitting is continuing successfully.

IIIT Hyderabad’s Entrepreneurship Cell (eCell) conducted its annual flagship event Megathon during 22-23 October 2022, which witnessed over 700 participants from 30 colleges.

CIE was awarded INR 3Cr by Meta to provide financial assistance to early stage extended reality (XR) startups.

Atal Incubation Center (AIC) at IIIT Hyderabad Foundation is supported by Atal Innovation Mission, NITI Aayog to nurture Tech-based social enterprises and help India achieve Sustainable Development Goals (SDGs). In the four years of its existence, AIC-IIIT-H has run various support programs for social startups and has supported ~50 startups in 10 cohorts. Overall, these AIC-supported startups have received over INR 79+ Crore funding (equity and grant funding) and generated 410+ jobs.

From April 2022 to June 2023, AIC-IIIT-H onboarded 12 social startups and conducted 31 startup-support events including sixteen training boot camps for the startups.

AIC has built partnerships with EPAM Systems and has facilitated financial support of INR 35 lakhs to 7 startups.

AIC has signed MoUs with six partners and six mentors to provide expert mentorship.

IHub-Data was established by DST’s NM-ICPS (National Mission for Interdisciplinary Cyber-Physical Systems). The Technology Innovation Hub scheme is dedicated to enhancing national research and deploying solutions in Data-Driven Technologies. IHub-Data aims to harness the volume & variety of data available in India to put together datasets that will be a valuable resource to researchers all over the world. In addition, technology and applied research efforts will be directed in focus domains of Smart Mobility and Healthcare. K T Rama Rao, IT Minister of Telangana government launched three projects - iRASTE TELANGANA, BODHYAAN car platform, and MicroLabs at IIIT Hyderabad in July 2022 under IHub-Data initiative.

Technology Transfer Office (TTO) is constantly evaluating technologies with market potential licensees of the deep tech work done in our research centres. Bringing new technology, innovation, or processes to the industry and nurturing them into societal or commercially marketable technology has always been an end goal for IIIT Hyderabad. The institute has 15 granted and 38 published patents, so far. During the last year, 52 patents have been filed and another ten are under process. Some are:
Patents & Recognitions
Raghu Reddy and his students Neeraj Mathur and Sai Anirudh Karre were granted a U.S. patent for their research work on a System and method for evaluating and facilitating customized guidelines using usability code pattern analysis.

Raghu Reddy, Vasudeva Varma and Lalit Mohan’s research on an Information security search engine has been granted a U.S Patent. The title of their invention is System and Method for Retrieving and Extracting Security Information.

Zia Abbas, Koushik De, Deepthi Amuru, and Khanh Le were granted a U.S patent for their research on AI-driven Self-adaptive Microelectronics Circuits.

Abhishek Srivastava and his collaborators Dr. Devarshi Das; IIT Ropar, Dr. M Shojaeli Baghini, IIT Bombay awarded Indian Patent for their research work on SAW Resonator Oscillator Based Injection Locked OOK Transmitter.

Manish Srivastava and, Vishnu Ramesh, System and method for generating queryable structured documents from an unstructured document using machine learning.

Kamalakar Karlapalem, Nahil Jain, Ayush Jain, Nikhil Gogate was awarded a patent for their research work System of visualizing and querying data using data pearls.

At the Institute, we are also encouraging our faculty and students whose research work got patented by presenting them with Crystal awards during our annual R&D showcase.

STUDENT ACTIVITIES

The academic year 2022-23 has been very vibrant with all the student activities being in physical mode. After the two-year pandemic effect, the campus became lively once again. Our students managed to take time out of their intense academic and research schedules to organize various activities that showed their leadership qualities, creativity, and caring nature. They organized several technical, cultural, social, and sports programs and celebrated national festivals such as Independence Day, Republic Day, and Gandhi Jayanthi celebrations etc.

A new student parliament body was elected for the academic year 2022-23. The student parliament is a selfless student body that strives to resolve issues faced by students in the institute and make the IIIT-H student community stronger, safer, and better. Apex body takes care of new students’ campus living and helps in creating a positive atmosphere on campus upholding the institution’s values and principles. They played a key role in conducting the Welcome / Induction sessions for the new UG and PG batches.

Our students formed 23 clubs and organized around 225 events and competitions viz., debates, quizzes, photography, music, dance, art, literature, ping newsletter, gaming, hacking, entrepreneurship, electronics, and astronomy, etc.

The 23rd edition of Felicity, the student’s annual mega techno-cultural fest has been organized in a physical mode. It was a tremendous success with a large turnout that included new alumni as well.
There were many talks, workshops, and programs in diverse fields organized in connection with the Institute’s Silver Jubilee Celebrations. To name a few: Evening Music Concerts by SPIC MACAY; Hindustani Vocal Music by Shri Dhananjay Hegde and team; Evening Ragas by Sanskriti Foundation; Qawwali Evening by the famous Warsi Brothers; International Mother Language Day Celebrations and Tyagaraja Pancha Ratna Goshthi Ganam etc.

Our students also engaged in various social activities like organizing clothes collection and donation drives, Dhan-Utsav, orphange visits, green challenge initiatives, and commemorating World Environment Day, World Mental Health Day, and a series of Community Art and Well-being sessions etc.

Physical Education Center (PEC) took many initiatives to keep the campus community physically and psychologically fit. In October, PEC organized both indoor and outdoor activities for students, faculty and, staff viz., Carrom board, Chess, Table Tennis; 5k & 10k Run, Night Cricket and, other Inter-house sports competitions.

On the 9th International Yoga Day, we organized Yogic New Year Day, Yogic principles for harvesting festivals, Trataka kriyas etc.

On 25th March 2023, teams from our institution participated in three cultural events at Spectrum ’23 [a NIFT Hyderabad’s annual cultural fest].

IIIT-H students have won medals in table tennis, swimming (by women), in chess (Men) at BITS Arena Sports Fest - 2023 held at BITS Hyderabad in February 2023.

A new reading room and a new reference cum stack area in the library were inaugurated on 13th September 2022. New sports and gym equipment was procured and installed on 12th November 2022 for the benefit of students’ health and well-being.

IIIT-H’s Team FLogic comprising IIIT-H girls’ team won the intercollegiate state-level basketball tournament held at B V Raju Institute of Technology (BVIT), Narasapur, Medak district in October 2022. The team had Pranali J as Captain, other team members were Sriya Vanepally, Sreya Garapati, Anuhya Nallapati, Meghanaa Tedla, Harshitha Gupta, Mihika Sanghi, Pragathi Gupta and Srujana Vanka.

Amul Agrawal, Alapan Chaudhuri, and Aditya Verma beat nearly 1,500 colleges at the International Collegiate Programming Contest (ICPC).

Devika Bej, UG1-CSD was one of the top 20 winners in the 17 – 18 years category at the Desmos Global Art Contest.

The Team Tateists of Astronomy Club won the first prize in an inter-college Astronomy competition organised by IIT Patna. The team members Shreyas Badami, UG2-CND and Pranav Agrawal, UG2-CSE topped all the rounds of the competition and finished with a perfect score in the final round.

Overall, the year 2022-23 has been remarkable for the student community.
ALUMNI

The alumni have been actively engaged with the institute for the past few years. The reach out to alumni held in January 2023 deliberated on What IIIT-H can do for its alumni and what alumni can do for IIIT-H; several alumni featured in the advisor-advisee interactions on FC Kohli Day celebrations; also during admission campaigns. Twenty of our alumni from India and abroad visited campus physically during the NAAC peer team visit for an interaction session. The alumni have raised about INR 2.2 crore and provided financial assistance to deserving students on a pay-forward model. Last year alone, 61 lakhs were raised to support 62 students (37 UG + 25 PG) of which 33 have repaid. Currently, the fund is supporting 20 students. The 25th-anniversary alumni meet held on June 17th in Seattle; June 18th in Vancouver; and June 27th in the Bay Area saw a huge turnout to celebrate the silver jubilee fundraising; and, the newly planned student activity center and academic block on the campus.

Some of the alumni achievements and activities during the last year

Ishan Misra (B.Tech CSE 2008-2012) was included in the list of 35 innovators under 35 by MIT Technology Review in 2022.

IIIT-H Alumni Association organized an Alumni Meet on 8 July 2022.

Silver Jubilee Alumni Meets were held in Seattle on June 17th and in San Francisco Bay Area on June 25th with the participation of Profs P J Narayanan, Ponnurangam Kumaraguru, Syed Azeemuuddin, and Meenakshi Viswanathan, Head of Alumni Affairs.

Student alumni cell conducted its 4th opportunity awareness talk on 5th November on the topic – MBA and future opportunities.

IIITH’s Student Alumni Connect Cell (SACC) successfully hosted a career insights event on 31st January 2023.

Subba Reddy Oota, an alumnum of Cognitive Science Lab and Language Technologies Research Center (LTRC) gave a talk on Do large language models (LLMs) align with human brains? on 23rd May 2023.
GRADUATING STUDENTS

This year, the graduating batch size is 519 in number (B.Tech – 81; B.Tech Honours – 72; Dual Degree – 102; Master of Science by Research – 68; M.Tech - 131; Ph.D. – 25 and MSIT – 40). This graduating class is the largest for our core programs. In our Silver Jubilee year, we are pleased to award 25 Ph.D. degrees, the largest ever. Record number of MS by Research and Dual-Degree students are also graduating this year. A total of 131 companies registered for placements and, 95 companies have conducted the interviews.

SUMMARY

The graduating students of 2023 are joining the professional world formally today, out to chart their own paths in this increasingly competitive and complicated world. I am confident you possess highly useful skills in your area and immense creativity to apply those to different problems. Above all, I urge you to travel your life’s journey with deep concern and caring toward the society around you. We expect the best from you in the coming years and are confident you will exceed our expectations. I request you stay connected with the institute in different ways and help it climb to even greater heights of academic excellence in the coming years. We will be cheering you every step of your journey. Please keep a small piece of the Banyan tree in your hearts as you conquer new worlds in the coming years.

Thank you.

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