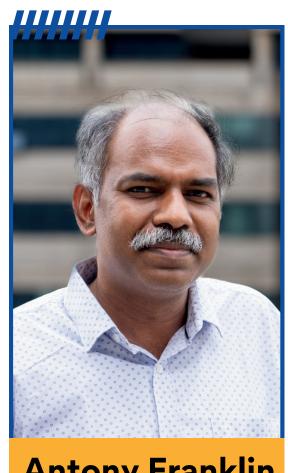


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2024 BROCHURE

Welcome Message

Computer The Science and Engineering Department IIT at Hyderabad has been growing steadily since its inception in 2008, and is one of the most sought after destinations for incoming students as well as faculty. The department faculty comprises faculty 26 members with а good representation in the areas of theoretical computer science, intelligence/machine artificial learning, and computer systems areas.



Antony Franklin
HoD & Professor

Computer Science is entering an exciting era with the advent of areas like machine learning, quantum computing, cybersecurity and next generation communications. Our department is well-equipped and deeply involved in research and development in all these areas. CSE@IITH fosters an environment where students and faculty work together and contribute to these efforts. We also have deep rooted collaborations with academia, industry and government agencies in these endeavours.

This brochure provides an overview of the various activities and achievements of our department over the years. Happy reading!

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CSE @ IITH



- A leading CSE department in the country with expertise in Theoretical Computer Science, Data Sciences, and Systems.
- Well-rounded curriculum emphasizing theoretical knowledge and practical skills.
- State-of-the-art labs and research facilities for staying updated with latest technologies.
- Vibrant research culture, interdisciplinary collaborations, and focus on innovative solutions.
- Support for entrepreneurship initiatives and successful startup launches. Priority on industry engagement through internships, guest lectures, and industry- sponsored projects.

Milestones





B.Tech and M.Tech Programs Begins



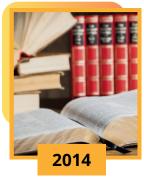
First Faculty Member Joins



First Batch of Ph.D. Students Joins



First B.Tech Batch Graduates



Introduction of Fractal Academics



First Ph.D. Student Graduates



EMDS Begins IIT Bhilai Mentorship Begins



Al Dept , MDS Begins, IIIT Raichur Mentorship Begins



M.Tech. NIS Begins



Move to CSE building



Antony Franklin

Ph.D.: IIT Madras Head and Professor Research Interests: Mobile Networks, 5G/6G, Mobile Edge Computing and Internet of Things

https://people.iith.ac.in/antony/



02 Ashish Mishra

Research Interests: Program Verification, Program



03 Bheemarjuna Reddy Tamma

Ph.D.: IIT Madras Professor

Research Interests: Wireless Networks, Connected and Autonomous Vehicles, Network Security and Quantum Internet

https://people.iith.ac.in/tbr/



04 C. Krishna Mohan

Research Interests: Computer Vision and Machine



05 J. Saketha Nath

Ph.D.: IISc Bangalore Associate Professor Research Interests: Kernel Methods, Statistical

Learning Theory and Generative Al

https://people.iith.ac.in/saketha/



06 Jyothi Vedurada

Ph.D.: IIT Madras Assistant Professor

Research Interests: Compilers, Program Analysis and

High-performance computing

https://jyothivedurada.github.io/



07 Kotaro Kataoka

Ph.D.: Keio University

Professor

Research Interests: Internet Architecture and

Blockchains

https://people.iith.ac.in/kotaro/



08 M.V. Panduranga Rao

Ph.D.: IISc Bangalore Professor

Research Interests: Applications of Formal Methods

and Quantum Networks

https://people.iith.ac.in/mvp/



09 Manish Singh

Ph.D.: University of Michigan, Ann Arbor

Research Interests: Social Network Analysis,

https://people.iith.ac.in/msingh/



10 Maria Francis

Ph.D.: IISc Bangalore Assistant Professor

Research Interests: Computational Algebra, Cryptography: Pairings-based and Lattice, Communication over Blockchains

https://sites.google.com/view/maria-francis



11 Maunendra Sankar Desarkar

Ph.D.: IIT Kharagpur Associate Professor

Research Interests: NLP, Information Retrieval and

Machine Learning

https://people.iith.ac.in/maunendra/



12 N.R. Aravind

Ph.D.: IMSc Chennai Associate Professor

Research Interests: Algorithms and Graph Theory

https://people.iith.ac.in/aravind/



13 Nitin Saurabh

Ph.D.: IMSc Chennai Assistant Professor

Research Interests: Computational Complexity Theory and its Connections to Algorithms, Algebra and

Combinatorics

https://nitinsau.github.io/



14 Praveen Tammana

Ph.D.: University of Edinburgh Assistant Professor

Research Interests: Networked Systems, Software Defined Networks and Programmable Data Planes

https://praveenabt.github.io/



15 Rajesh Kedia

Ph.D.: IIT Delhi Assistant Professor

Research Interests: Computer Architecture, Embedded Systems and Digital VLSI design

https://people.iith.ac.in/rkedia/



16 Rakesh Venkat

Ph.D.: TIFR Mumbai Assistant Professor **Research Interests:** Research Interests: Approximation Algorithms and Complexity Theory

https://people.iith.ac.in/rakeshvenkat/



17 Ramakrishna Upadrasta

Ph.D.: INRIA and University Paris-SUD
Associate Professor
Research Interests: Compilers, Polyhedral Compilation and Program Embeddings

https://people.iith.ac.in/ramakrishna/



18 Rameshwar Pratap

Ph.D.: CMI, Chennai Assistant Professor **Research Interests:** Compilers, Polyhedral Compilation and Program Embeddings

https://sites.google.com/site/prataprameshwaryadav/



19 Rogers Mathew

Ph.D.: IISc Bangalore Associate Professor **Research Interests:** Extremal and Probabilistic Combinatorics, Structural Graph Theory and Graph Algorithms

https://people.iith.ac.in/rogers/



20 Sathya Peri

Ph.D.: University of Texas at Dellas, Richardson, TX, USA Professor

Research Interests: Blockchains, Parallel and Distributed Systems

https://people.iith.ac.in/sathya_p/



21 Saurabh Kumar

Ph.D.: IIT Kanpur Assistant Professor **Research Interests:** Cyber Security, Mobile Security, Cyber Forensics, and Malware Analysis

https://skmtr1.github.io/



22 Shirshendu Das

Ph.D.: ITI Guwahati
Assistant Professor
Research Interests: Computer Architecture, Hardware
Security and Emerging Memory Technologies

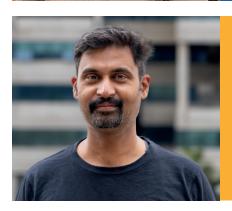
https://sites.google.com/view/shirshendudas/home



23 Sobhan Babu

Ph.D.: IIT Bombay Associate Professor **Research Interests:** Big Data Analytics, Graph Theory and Algorithms

https://people.iith.ac.in/sobhan/



24 Srijith P.K

Ph.D.: IISc Bangalore Associate Professor **Research Interests:** Machine Learning, Deep Learning, Vision and Language

https://sites.google.com/site/pksrijith/



25 Subrahmanyam Kalyanasundaram

Ph.D.: Georgia Institute of Technology Associate Professor

Research Interests: Theoretical Computer Science, Graph Theory, Graph Algorithms and Combinatorics

https://people.iith.ac.in/subruk/



26 Vineeth N. Balasubramanian

Ph.D.: Arizona State University, USA Associate Professor **Research Interests:** Machine Learning, Deep Learning, Computer Vision and Explainable Al

https://people.iith.ac.in/vineethnb/

Visiting Faculty





27 C. Siva Ram Murthy

Ph.D.: IISc Bangalore
Visiting Professor
Research Interests: Wireless Networks, Parallel and
Distributed Computing

http://www.cse.iitm.ac.in/~murthy/

Adjunct Faculty





28 Kenzo Fujisue

Ph.D.: Waseda University, Tokyo Institute of Technology Adjunct Professor

Research Interests: Web3 and Cybersecurity Policy

http://www.linkedin.com/in/kenzo-fujisue-005b1678



29 Naveen Sivadasan

Ph.D.: Max Planck Institute for Informatics
Adjunct Professor

Passarch Interests: Computational Biology

Passa

Research Interests: Computational Biology and Applied Algorithms

https://www.linkedin.com/in/naveen-sivadasanb71027b2/

B.Tech. In CSE



B.Tech. In CSE department started in the year 2008 with an initial intake of 40; The current intake is 65.



JEE ranks over the years

Core courses offered in B.Tech



Semester 01

Introduction to Programming Discrete Mathematics Introduction to computing

Semester 02

Software Development Fundamentals Artificial Intelligence

Semester 03

Data Structures and Algorithms Computer Architecture Operating Systems I **DBMS I**

Semester 04

Theory of Computation Operating systems II Algorithms Compilers I **DBMS II**

Semester 05

Computer Networks Compliers II Foundations of Machine Learning

Semester 06

Software Engineering

Electives offered in the Last 5 Years

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Systems

- Advanced Computer Architecture
- Advanced Computer Networks
- Advanced Compiler Optimisations
- Advanced Operating Systems for Pervasive Computing
- Basics of Blockchains: Distributed Computing Perspective
- Compiler Optimizations
- Computer and Network Security
- Concurrency Control in Transactional Systems
- Data Center Networking
- Distributed Computing
- Distributed Systems
- Hardware Architecture for Deep Learning
- Introduction to Wireless Networks
- Network Engineering
- Networked Wireless Systems
- Parallel and Concurrent Programming
- Software Defined Networking
- Topics in Compiler Optimizations
- The Blockchain: Theory and Practice
- Wireless Networks and Security

AI, ML and Data Science

- Advanced Topics in Data Management
- Algorithmic Techniques for Massive Data
- Bayesian Data Analysis
- Computational Topology: Theory and Applications to Data Analysis
- Computer Vision
- Data Mining
- Deep Learning for Vision
- Introduction to Statistical NLP
- Neural Networks
- Numerical Linear Algebra for Data Analysis
- Pattern Recognition
- Predictive Analytics and Knowledge Discovery
- Probabilistic Models for Machine Learning
- Soft Computing
- Text Processing and Retrieval
- Visual Recognition

Theory

- Algebra for Computer Science
- Analysis of Boolean Functions
- Applications of Markov Chains
- Approximation Algorithms
- Circuit Complexity
- Communication Complexity
- Computational Complexity
- Computational Number Theory and Algebra
- Convex Optimization
- Cryptography

- Formal Methods in Computer Science
- Graph Theory
- Linear Optimization
- Probabilistic Model Checking
- Probability in Computing
- Quantum Computing
- Quantum Cryptography
- Sketching and sampling for massive data
- Tensors: Techniques, Algorithms and Applications

M.Tech. in CSE



01 M.Tech

- Started in the year 2008
- 24 Credits of course work
 - Option A: + 24 Credits of Thesis
 - Option B: +12 Credits of Capstone project + 9 Credits of Course work
- 2 Years M.Tech program
 - MoE Sponsored
 - Self Sponsored
- 3 Years M.Tech.program (Option A)
 - Project Sponsored

Courses offered

- Advanced Data Structures and Algorithms
- At least two electives each from:
 - Data Science
 - Systems
 - Theory

02 M.Tech. in Data Science

- Started in the year 2015 as an online program
- Exclusively for working professionals
- Self-paced course:3-4 years
- 24 Credits of course work + 24 credits of capstone project
- Executive M.Tech. in Data Science (EMDS) degree with 24 credits of coursework

Courses offered

- Mathematical Foundations of Data Science
- Image and Video Analytics
- Foundations of Machine Learning
- Applied Machine Learning
- Probabilistic Models for Machine Learning
- Bayesian Data Analysis
- Theory of Learning and Kernel Methods
- Natural Language Processing
- Information Retrieval
- Deep Learning
- Programming Models for Multicore and GPU Architectures
- Scaling to Big Data
- Internet of Things

M.Tech. in CSE

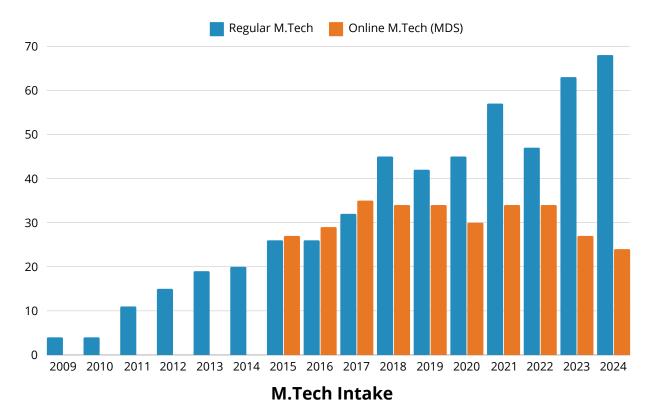


M.Tech in Network and Information Security

- Started in the year 2008
- 24 Credits of course work + 24 credits of thesis
- 2 Years M.Tech program
 - MoE Sponsored
 - Self Sponsored
- 3 Years M.Tech.program
 - Project Sponsored

Courses offered

- Advanced Data Structures & Algorithms
- Advanced Computer Networks
- Cryptology
- Topics in Wireless Networks
- Internet of Things
- Wireless Networks & Security
- Topics in Networks
- Networked Wireless Systems
- Advanced topics in Cryptology
- Quantum Cryptography
- Basics of Blockchains: Distributed Computing Perspective
- Software Defined Networks
- Data Center Networking
- Applied Machine Learning
- The Blockchain: Theory and Practice



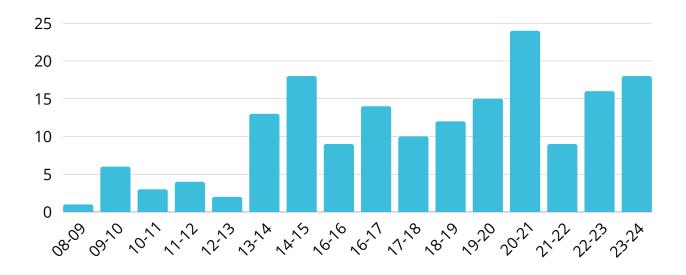
Ph.D. Program

- *||||||*
- Core Course: Advanced Data Structures and Algorithms
- 12 credits of course work
- 24 credits for direct Ph.D. Program
- Comprehensive Exam
- Research Proposal Seminar

Stream-wise Distribution Of Scholars



Stream	Graduated Students	Current Students
Theory	6	15
Systems	24	39
AI / Machine Learning	35	28



Year Wise PhD Intake

Academic Highlights

Firsts

- First Online M.Tech. Program for Data Science in the country
- Seeding of the first AI department and AI undergraduate program in the country

Student Credits

- 116000 (from 2010 to 2024)
- About 7900 student credits per year
- About 300 student credits per Instructor per year (Calculated at peak faculty strength of 26)

Mentorship of Institutes of National Importance

- Department of CSE, IIT Bhilai: 2016 2018
- Department of CSE, IIIT Raichur: 2019-2023
- Department of CSE, CUK, Kalaburagi: 2018 2019

Institute Teaching Awards for Department Faculty

- Maunendra Desarkar
- C Krishna Mohan
- Karteek Sreenivasaiah
- Vineeth N Balasubramanian
- Rakesh Venkat
- Rogers Mathew
- Praveen Tammana

Institute Research Excellence Awards

- C Krishna Mohan
- Vineeth N Balasubramanian

Joint PhD Programs

- Swinburne University, Australia
- Deakin University, Australia
- IDRBT, Hyderabad

Research

Broad Research Areas



O1 Theory



Algorithms
Computational Complexity
Graph Theory
Combinatorics
Formal Methods
Quantum Computing

02 Systems



Computer Networks
Compilers
Architecture
Distributed Systems
Blockchains
Cyber Security

03 AI/ML & Data Science

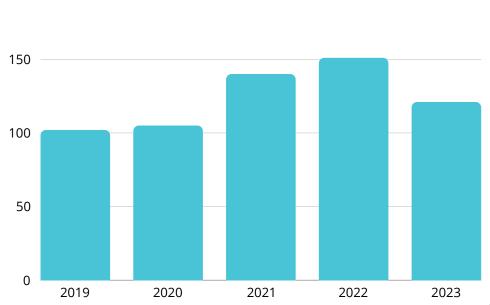


Big Data
Computer Vision
Natural Language Processing
Social Media Analytics
Theoretical AI/ML
Applications

Publications

Publications in the last five years





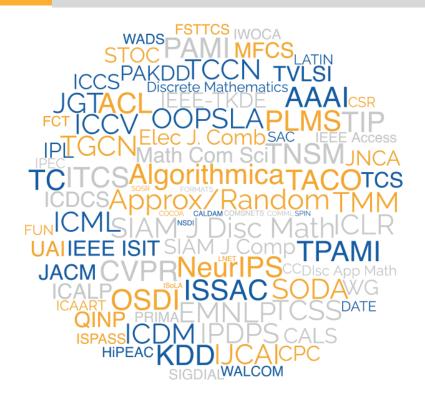
Publications

Source: DBLP

Venues

200

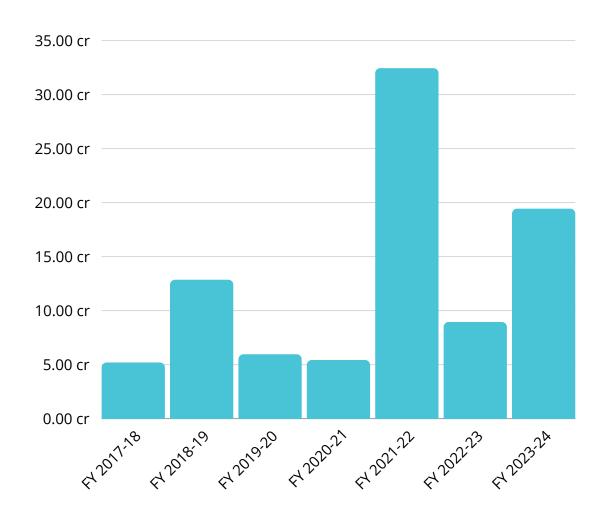




Project Funding

Yeas-Wise Funding





Some Funding Agencies











Collaborations

We take pride in fostering a culture of global collaboration and academic excellence. These partnerships have enabled us to engage in impactful research projects.

National Collaborations

























International Collaborations





















Industry Collaborations

















Innominds







Awards and Recognitions



Scientific Awards and Recognitions

Best/Distinguished Paper Awards

- International Conference on Communication Systems and Networks (COMSNETS), 2022
- ACM Joint International Conference on Data Science & Management of Data (CODS-COMAD), 2022
- ACM SIGPLAN International Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA), 2021
- Workshop on Causality in Vision, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021
- International Computing and Combinatorics Conference (COCOON), 2020
- International Workshop on Graph-Theoretic Concepts in Computer Science (WG), 2020
- IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), 2018
- International Conference on Communication Systems and Networks (COMSNETS), 2018
- International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), 2018
- ACM SIGCOMM Symposium on SDN Research (ACM SDN), 2018
- International Conference on Networked Systems (Netys), 2018
- IEEE International Telecommunication Networks and Applications Conference (ITNAC), 2016

Competitive Research GrantAwards

- Sony Research Award
- Qualcomm Faculty Award
- AMD Faculty Award
- Microsoft Academic Partnership Grant Award
- Google exploreCSR Grant Award
- Google Research Scholar Award
- IBM Shared University Research Award
- Verisk AI Faculty Research Award
- IBM Research Academic Award

Other Research Awards

- iKDD Outstanding Doctoral Dissertation Award, 2022
- Research Excellence Award, IIT-Hyderabad, 2022-23
- Senior Membership in AAAI (one of 15 globally selected), 2023
- Best Reviewer Awards, IJCAI 2023, ICLR 2021, ECCV 2020, CVPR 2019, OOPSLA 2019
- NASSCOM AI Gamechangers Award (DL Algorithms/Architecture category), Winner and Runner-up, 2022

20

Awards and Recognitions



Academic Awards and Distinctions

Visiting Fellowships

- Fulbright-Nehru International Education Administrators Seminar Fellowship, 2023-2024
- Mottez Fellowship (Host: Institute Henri Poincare, Paris, France), 2023
- Fulbright-Nehru Academic and Professional Excellence Fellowship (Host: Carnegie Mellon University, Pittsburgh, USA) 2022-23
- Visiting Scholarship, Erasmus Mundus PIXNET (Host: Scuola Superiore Sant'Anna, Piza, Italy), 2020-22
- ASEM Duo Fellowship (Host: Sorbonne University, Paris, France), 2020

PhD Fellowships obtained by Students

- Google Ph.D. Fellowship
- TCS Ph.D. Fellowship
- Intel Ph.D. Fellowship
- Reliance Foundation Fellowship
- PMRF Fellowship
- Microsoft Research India PhD Award
- Qualcomm Innovation Fellowship

Awards obtained by students

- IDRBT Doctoral Colloquium
- Indo-Canadian Shastri Student Research Fellowship
- S N Bose Fellowship
- Honda YES Fellowship
- Viterbi Fellowship
- Google Al Residency
- Facebook AI Residency
- Fulbright-Nehru doctoral research fellowship

R & D Infrastructure

Research Labs

NeWS Lab

- Networked Wireless System
- Lab Research Areas:
 - 5G Test bed, Converged
 Cloud RAN, 5G: Multi-access
 Edge Computing, Intelligent
 Transportation Systems: 5G
 NR V2X, C-V2X, AI for
 Cybersecurity

CANDLE Lab

- Computer Architecture and Machine Learning
- Lab Research Areas:
 - Autonomous Driving Vehicles, Computer Architecture, Processor Architectures for ML, Neural Network Accelerators, VLSI, High-Performance Computing

PRANET

Practical Networking and Blockchain

- Research Areas:
 - o Blockchain
 - Software Defined Networking Digital Twin Networks

Compilers Lab

- Scalable Compilers for Heterogeneous Architectures Group
- Research Areas:
 - Polyhedral Compilation Code
 Compliance & Security Machine
 Learning for Compilers



R & D Infrastructure

Research Labs



Natural Language and Information Processing (NLIP)

- Responsible NLP: Multilinguality and Low-resource languages, Hate Speech Detection
- Controlled Langauge Generation
- Large Language Models Industry Collaborations with Microsoft, Honeywell, Accenture, and several startups.

VIGIL Lab

- Visual Learning and Intelligence
- Lab Research Areas:
 - Vision for Autonomous
 Driving, Security for Machine
 Learning
 - Medical Imaging
 Segmentation, Radar
 Navigation using ML ML for
 Domain Adaptation

Machine Learning and Vision Group

- Exploring Connections between
 Adversarial Robustness and Explain
 ability (*Google* Research Scholar
 Award, *Microsoft* Research
 Postdoctoral Research Grant)
- Learning with Weak Supervision for Autonomous Vehicles (Funded by Intel and SERB IMPRINT program)
- Explainable Deep Learning (Funded by *Adobe*)
- Deep Generative Models: Going Beyond Supervised Learning (Funded by *Intel*)

Bayesian Reasoning And Inference (BRAIN)

- The BRAIN research group, led by Prof. Srijith P K, specialises in probabilistic ML, DL, Bayesian learning, Continual Learning, Domain Generalization, Causality and NLP.
- Funding Agencies: Sony, JICA, Intel, Accenture, SERB
- Recent Achievement: Prof. Srijith received the Young Researchers
- Scientist Award from Sony Research 2023



ICT Infrastructure

Cluster & Undercloud



SLURM

The CSE department has taken a significant stride in optimizing its server infrastructure by developing Slurm, an in-house cluster management and job scheduling system. This innovative solution has been seamlessly integrated, with an impressive 95% of the department's servers now operating within the Slurm ecosystem.

MAAS (Metal as a Service)

Simplify CSE Infrastructure Management with MAAS (Metal as a Service). Effortlessly deploy, manage, and scale Ubuntu-based servers in the Data Center. Achieve efficient resource utilization and seamless scalability with zero-touch provisioning.

- Automated OS installation, static IP, DNS setup on servers
- Automated hardware health monitoring and logging
- Onboarded servers web interface

Moodle

Moodle (Modular Object-Oriented Dynamic Learning Environment) is our robust, versatile platform designed to enhance the learning experience for students and faculty at the CSE department of IITH. Moodle empowers our community by providing a centralized space for all course-related activities, ensuring a seamless and efficient academic journey.





Department Staff

Technical Staff





N. Syamala Rao Sr.Technical Superintendent



T Vijaya Chakravarthi Sr.Technical Superintendent



Nikith Reddy Peddasheri Technician



Sunitha Maloth Technician



Praveen Kumar Gaddam Junior Technician



Shiva Kumar Reddy Junior Technician



Kiran Kumar Kavali Junior Technician



Gandepalli Surya Prakash Assistant



Hannah Daisy Junior Assistant

Distinguished services and day-to-day departmental activities are overseen by our CSE technical staff and admin staff, with nine dedicated team members handling all related tasks and responsibilities.

Societal Impact

Projects with Societal Impact



Live Analysis of UPI Payments in NPCI:

Data mining-based live analysis of UPI payments in collaboration with the National Payments Corporation of India (NPCI). We are proud to be a part of one of the most exciting contributions of India towards the world's digitization.

Analyzing and Improving Urban Transportation:

The M2Smart (Smart Cities for Emerging Countries based on Sensing, Network and Big Data Analysis of Multimodal Regional Transport System) is a joint research project under Japan's SATREPS program between IIT Hyderabad, Nihon University, Japan, Nagoya Electric Works Co. Ltd, Tokyo Institute of Technology, and Ahmedabad Municipal Corporation (AMC). The project looked into development of technologies for collecting, processing, modelling and providing traffic information in the IITH campus using various sensing technologies, wireless communication technologies and big data processing techniques, developed by various approaches in the testbed, generated by integrating these technologies. It also considered the system to promote multimodal by providing traffic information to users and at the same time to improve traffic management, and confirm policies to implement this system socially through field experiments in Ahmedabad city. This project installed sensors and monitored traffic-related parameters near IIT Hyderabad campus and in Ahmedabad city longitudinally, and made several contributions to improving traffic flow in both these urban areas. Vision-based systems to detect unique traffic violations and road crimes (such as wearing of helmet and chain-snatching) were also developed.

Disaster Management Systems:

As one of the earliest efforts in the unique Indo-Japan partnership manifested in IIT-Hyderabad, the DISANET (Information Networks for Natural Disaster Mitigation and Recovery) project focused on mitigating the after-effects of natural disasters. This project resulted in the development of web portals and apps to mitigate disaster aftereffects and enable quick recovery and support. Our faculty's social media aggregator was also used during the Kerala floods of 2018 to collate resources and support for the flood victims.

Tax Fraud Analytics:

Live ongoing implementation of data science-based methods to analyze taxation data, and highlight cases of potential fraud. This effort has led to savings of over several crores of rupees to the state exchequer.

Societal Impact

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Projects with Societal Impact

Institution Mentoring:

IIT-Bhilai: Responsible for initial set up of curricula, teaching, campus development, computer centre, and faculty recruitment from inception, 2016-18. IIIT-Raichur: Responsible for complete management of the CSE department including curricula, teaching, faculty recruitment, student mentoring from 2022-2023.

Central University of Karnataka, Kalaburagi: 2018-2019, mentored the CSE Department.

Towards 5G,V2X, and Beyond:

Our faculty members are involved in the "Indigenous 5G Testbed" project funded by Dept. of Telecom (DoT), Govt. of India and "V2X Pilot Study" project funded by Suzuki Motor Corporation, Japan. Various network functions of 5G Core network are developed as per 3GPP specifications with network intelligent for delivering highly available, reliable, resilient, and secure slice services for diverse use cases of 5G and beyond. The IITH 5G Core is also tested for interoperability with both in-house and open-source 5G base stations and smartphones. Vehicles fitted with Vehicle-to-anything (V2X) radios and ITS apps are used to demonstrate various benefits of ITS technology for road users in India.

Data Science for Agriculture:

Our faculty members have also been involved in an Indo-Japan multi-institutional collaboration to collect, analyze and deploy data science-based technology solutions for agriculture. This effort, which includes the P Jaishankar Telangana State Agricultural University, has resulted in a longitudinal collection of sensor data in rice paddy and maize farms with different genotypes and phenotypes. We have also actively contributed to the AI for Agriculture challenge organized by NASSCOM and the Telangana government.

Academic Information Management System:

The Academic Information Management System (AIMS) system that ran IIT-Hyderabad's ecosystem including academics, reporting, human resource management and infrastructure management for a large part of the last decade, was a home-grown software created by a CSE faculty from design to deployment as part of an entrepreneurial effort. Not to forget, this system has also been deployed at other academic institutions across the country!

Conferences and Workshops



Conferences and Workshops Organised

- General Co-chairs and Program Co-chairs of National Conference on Communications (NCC), Mar 2018 (held at IIT-Hyderabad).
- Organized IndoSys 2018
- Organised FM Update 2019
- Organised INDOQUANT 2019
- Organised TEQIP program on Advanced Algorithms between November-December 2020.
- Organised VAIBHAV Summit 2020 CPS Vertical
- Lead co-organizers of CSE and AI tracks in Vaibhav Summit (an effort of NITI Aayog invited global experts to discuss on promoting research in India), Oct 2020.
- Organized the 6th International CALDAM 2020 at IIT-Hyderabad, Feb 2020.
- General Co-chair and organizers of Asian Conference on Machine Learning, Dec 2022, Hyderabad (first ACML to be brought to India).
- Organised ACM India Summer School on Algorithmic Techniques in Computational Biology, Jun 2023 (held at IIT-Hyderabad).
- Organised ACM India Summer School on Programming Language Analysis and Optimisations, Hosted by: IIT Hyderabad (online)
- Organised ACM ROCS 2024
- Organised ACM-W India Grad Cohort 2024
- Organised Intel Unnathi Al everywhere 2024
- ICDCN-2025 (Coming Soon!)



Recent Outreach events

ACM ROCS



CSE IITH conducted the ACM workshop on Research Opportunities in Computer Science (ROCS) to raise awareness about the research opportunities available in the growing field of computer science broadly and also specifically in India. There were expert talks covering research opportunities in broad themes of Computer Networks, Computer Architecture, Cryptography, Responsible and Safe Al, Machine Learning, Theoretical Computer Science, Programming Languages, and Compilers. The event was a huge success with about 200 participants (UG/PG students and a few faculty members) attending the workshop for the whole day.

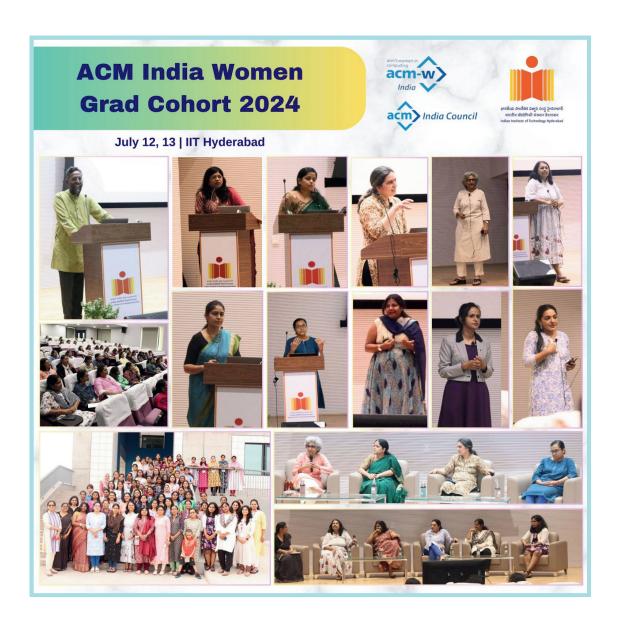


Recent Outreach events

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ACM-W India Grad Cohort 2024

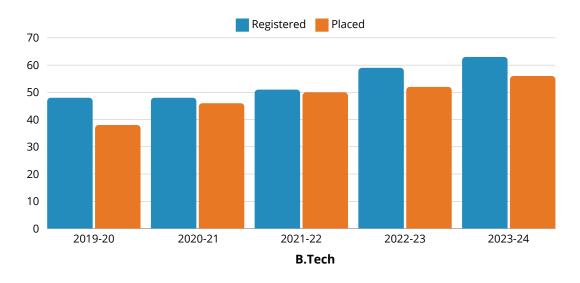
CSE IITH organized the ACM-W India Grad Cohort 2024 event at the Indian Institute of Technology Hyderabad from July 12 to 13. This event aimed to connect Indian women graduate students in computing with eminent female researchers from academia and industry. Over the course of these two days, participants engaged in inspiring talks, insightful panel discussions, and valuable networking opportunities, making it a time of significant learning and inspiration.

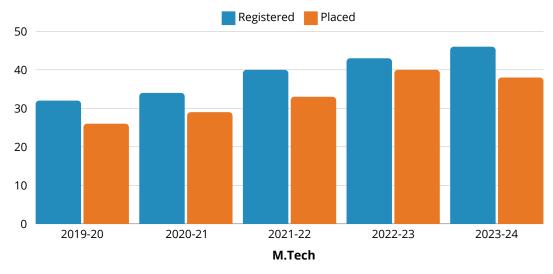


Placements

Percentage of Registered Students Placed









PAST RECRUITERS

Alumni



Our Ph.D. Graduates have gone on to remarkable affiliations, showcasing the impact of their research and the quality of education they received at our institution. Here are some of the notable affiliations of our graduated Ph.D. students.

Alumni in Academia Alumni in Industry

Princeton NIT Calicut

NIT RourkelalIT Indore
SSIPMT-RaipurIIT Bhilai
Monash University
Shivnadar University
University of Hyderabad
Woosong University
JNTU Amrita University
JNTU Amr

Celona HCL
SalesforceASCI
Supraoracles
Rakutan Mobiles
Samsung Research
Adobe Research
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