

*"Computer Science  
is the operating  
system for all  
innovation"  
- Steve Ballmer*

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## **Brochure 2022 - 2023**

Department of  
Computer Science and  
Engineering

*Indian Institute of  
Technology Hyderabad*

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## **CONTACT US HERE**

Room C-305, Block- C  
Dept. of Computer Science & Engineering  
Indian Institute of Technology Hyderabad  
Kandi-502285, Sangareddy  
Telangana, India  
Email id : [placement.cell@cse.iith.ac.in](mailto:placement.cell@cse.iith.ac.in)



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## OUR STORY

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***With NIRF 8th Rank,  
we are one of the  
best in the country.***

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## ABOUT US

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We are one-of-a-kind Institute, with exceptional research and innovation opportunities. It is one of the most dynamic, young, and vibrant departments in the institute, providing students with the environment to innovate, build and grow.

# ACADEMICS

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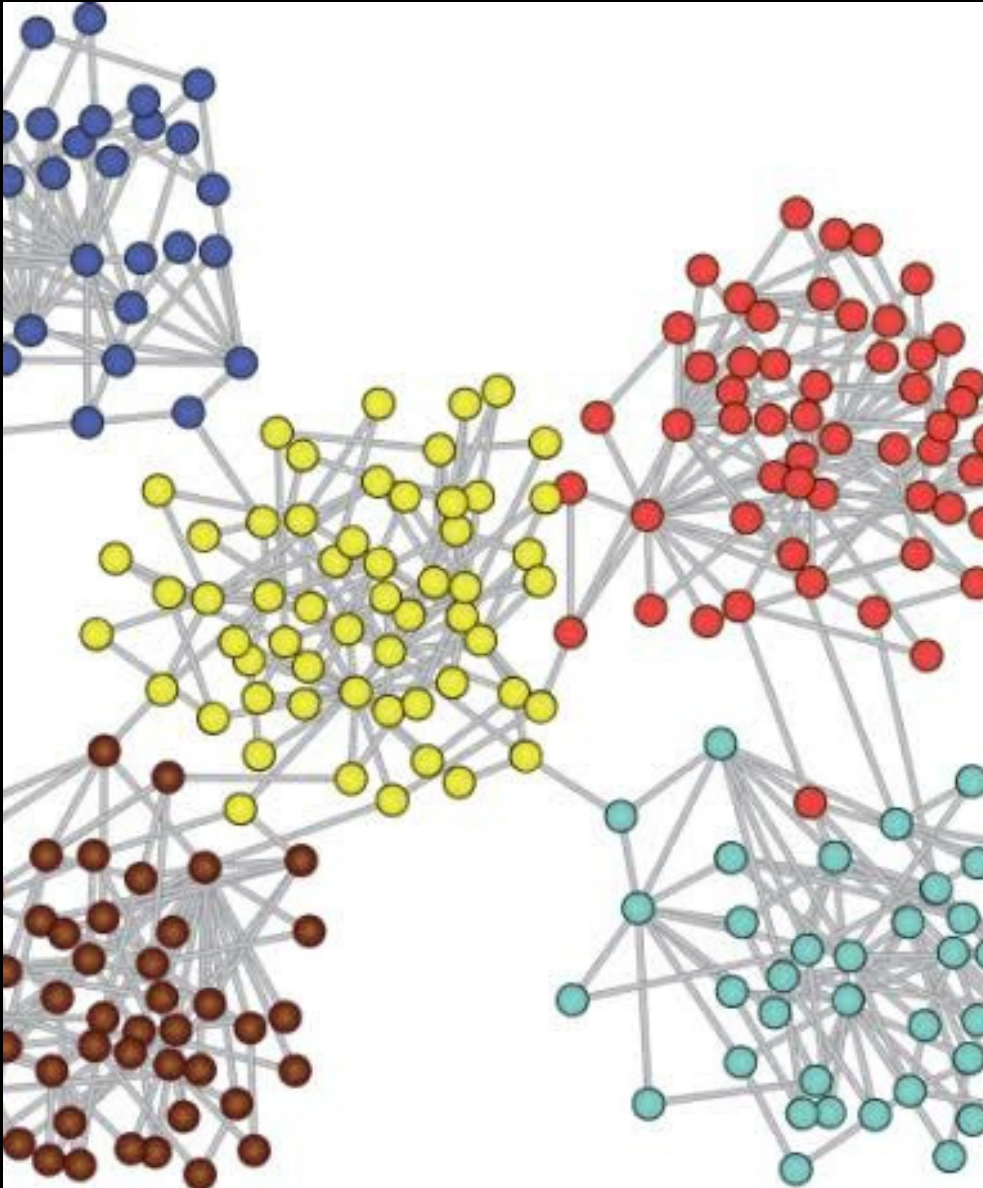
- **BTech, CSE (4-Year)**-The B.Tech. programme follows the fractal academics that spans the vast universe of Computer Science theoretically and practically with the strong coursework which enables to achieve the same . .
- **MTech, CSE Teaching Assistantship (2-year)**-The standard MTech. (TA) is a two-year programme, where the students are encouraged to pursue in-depth study on the courses of their interest and build projects that apply their knowledge of it.
- **MTech, CSE Research Assistantship (3-Year)**-The MTech. (RA) in CSE programme enables students to work with a CSE faculty member on an R&D project with strong collaboration with industry alongside their regular coursework. It prepares students for pursuing a career in R&D oriented industry.
- **MTech, Networks and Information Security (2-Year)**- NIS is a 2-Year MTech Programme initiated as a specialization under the department of Computer Science and Engineering, IIT Hyderabad. The program offers a rich curriculum in both the theoretical and practical aspects of networks and information security
- **MTech in Data Science** - This is a self paced program offered by the CSE department for working professionals. It trains the students in both theoretical and practical aspects of data science and provides hands-on experience with two capstone projects.
- **Doctorate Programme in CSE**-The Ph.D. program is a post-graduate programme focussed on original research that can lead to publications in premier conferences or journals. This program prepares the students to become industry ready as well to pursue careers in high-end R&D positions.



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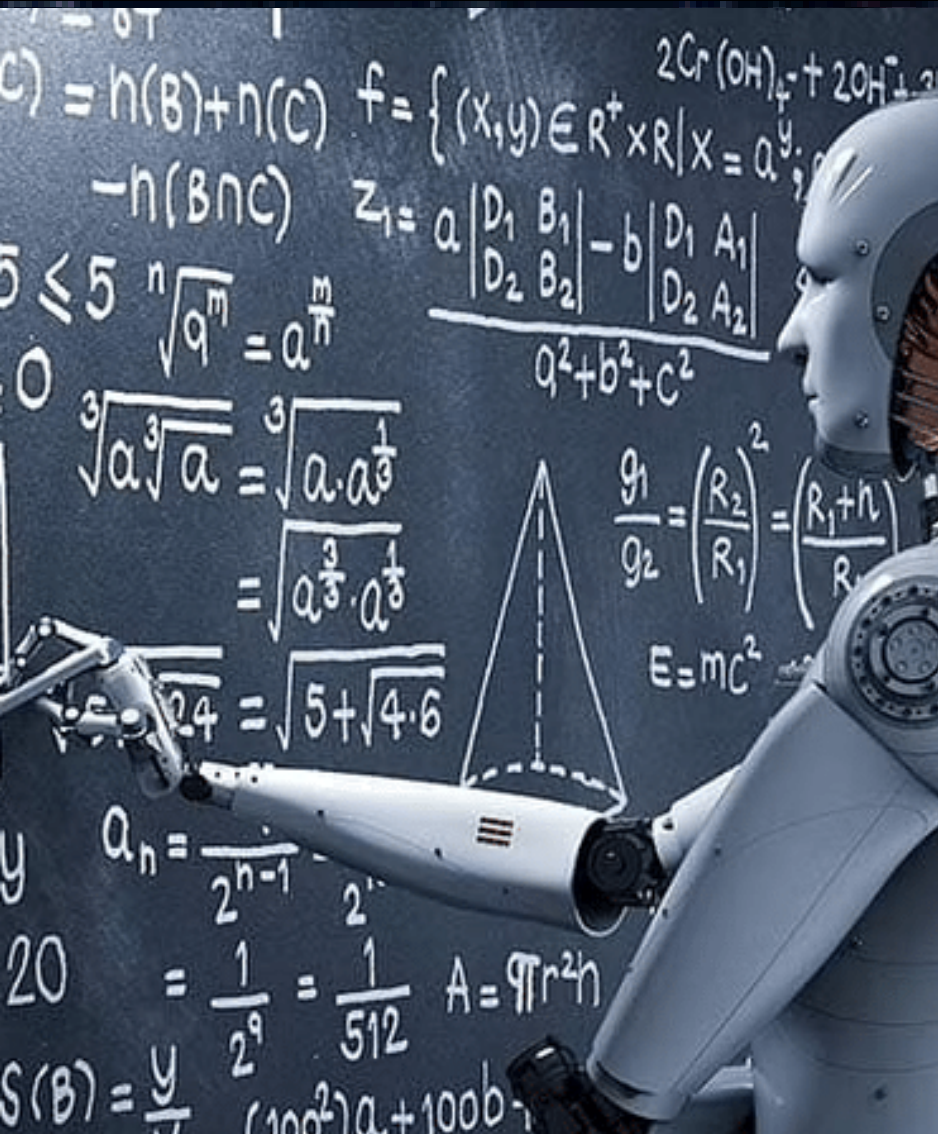
# COURSES OFFERED-BTECH

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- Programming in C/C++
- Discrete Structures
- Data Structures
- Computer Architecture
- Principles of Programming Languages
- Theory of Computation
- Introduction to Complexity Theory
- Algorithms
- Compilers
- Operating Systems
- Computer Networks
- Database Management Systems
- Software Engineering
- Machine learning
- Artificial Intelligence
- Topics in Combinatorics
- Computer vision
- Quantum Computing

# COURSES OFFERED-MTECH/PhD



- Advanced Data Structures and Algorithms
- Bayesian Data Analysis
- Applied Machine Learning
- Video Content Analysis
- Natural Language Processing
- Deep Learning for Vision
- Hardware Architecture for Deep learning
- Mathematical Foundations of Data Science
- Fraud Analytics
- Advanced Compiler Optimization
- Parallel and Concurrent Programming
- Distributed Computing
- Internet of Things
- Computer Networks
- Software-Defined Networks
- Network Security
- Quantum Computing and many more



# RESEARCH AREAS

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The department provides students with various labs and research areas:

- Machine Learning, Deep Learning, Computer Vision, NLP, Data Mining, etc.
- 5G, Networking, & Network security, etc
- Computer Architecture,
- Compiler Optimization,
- Parallel Programming, Distributed systems, & High-Performance computing
- Theoretical Computer Science

The department also provides students with various labs of global standards. Last year alone, we produced over 60 publications in conferences such as *CVPR*, *ICML*, *AAAI*, *ACL*, *NeurIPS*, *ISPDC*, etc.



# Research Labs

- Visual Learning and Intelligence Lab (VIGIL)
- Networked Wireless Systems Lab (NeWS)
- Cyber Physical Systems Lab
- Practical Networking and Blockchain Lab (PRANET)
- Bayesian Reasoning and Inference lab(BRAIN)



- Theoretical Computer Science Lab
- Computer Architecture and Machine Learning Lab
- Compilers Lab
- Data Informatics Group Lab
- DISANET Lab
- PDCRL (Parallel & Distributed Computing Lab)

# ACHIEVEMENTS

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The department regularly produces new publications and patents. Every year students participate and win various national and international level Hackathon. Students from CSE were selected in GSoC and contributed to open source.



## 2022 HIGHLIGHTS

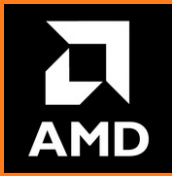
Suzuki's V2X project, targeted at improving self driving cars using networks was demonstrated on campus. Our faculty and students are key contributors.

CSE faculty are involved in bringing and organising the 14th Asian conference in machine learning (ACML) for the first time in India during December 2022.



# COLLABORATIONS

The faculties have active collaborations with various academic and industry partners such as Microsoft Research, IBM Research, Intel, AMD, Samsung, DRDO, and the University of Oxford, University of Tokyo, Swinburne University, IISc, other IITs. and many global Universities.



SAMSUNG



दूरसंचार विभाग  
DEPARTMENT OF  
**TELECOMMUNICATIONS**

IBM

Honeywell



accenture



SWINBURNE

SWINBURNE  
UNIVERSITY OF  
TECHNOLOGY



and many more

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# PAST RECRUITERS

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**Accenture**

**Adobe**

**Airtel**

**Altair**

**Amazon**

**AMD**

**Arista**

**Bharat Electronics**

**BNY Mellon**

**CDCC**

**C-DOT**

**Dell**

**Denso**

**DEShaw & Co**

**Direct-i**

**Flipkart**

**Goldman Sachs**

**HSBC**

**Intel**

**Jaguar**

**Jio**

**KLA**

**MathWorks**

**Micron**

**Microsoft**

**NTT**

**NVIDIA**

**Oppo**

**Oracle**

**Oyo**

**Qualcomm**

**Rakuten**

**Salesforce**

**Samsung**

**ServiceNow**

**SoftBank**

**Sprinklr**

**Swiggy**

**TCS Research**

**TSMC**

**Xilinx**

**XPO Logistics**

# WHY RECRUIT US?

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**Holistic Curriculum:** The curriculum is designed to provide thorough training in both theoretical foundations and practical aspects.

**State of the art research :** Students from all programme have been producing original research and publishing in top-tier conferences and journals.

**Distinguished faculty:** The faculty are specialized in every field of Computer Science, with research papers published in prestigious scientific journals and conferences like IEEE Communications, Network Operations and Management Symposium, FCRC, DEBS - ACM, HiPC, SC.

**Finest student community:** The community includes top scorers in JEE and GATE highly passionate about contributing to the field.

**Future industry/research leaders:** Students are not only highly talented in their fields, but are also highly enthusiastic in driving a positive change everywhere they go.



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# CONTACT US

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**Dept. of Computer Science and Engineering**

<https://cse.iith.ac.in>

**Dr. Subrahmanyam Kalyanasundaram**

Head of Department

Contact: +91 40 2301 7053

Email ID: subruk@cse.iith.ac.in

**Dr. Abhinav Kumar**

Faculty In-Charge Placements

Email ID: fic.placement@iith.ac.in

**Dr. Srijith P.K.**

Department Faculty Placement Coordinator

Email ID: srijith@cse.iith.ac.in

# CONTACT US



Email us: [placement.cell@cse.iith.ac.in](mailto:placement.cell@cse.iith.ac.in)

## Placement Coordinators

Gajesh Sailesh Kumar  
Contact: +91-9445337904  
Email ID: [cs21mtech11003@iith.ac.in](mailto:cs21mtech11003@iith.ac.in)

Madhuri Annavazzala  
Contact: +91-7989008911  
Email ID: [cs21mtech02003@iith.ac.in](mailto:cs21mtech02003@iith.ac.in)

Rohit Kapoor  
Contact: +91-9818779264  
Email ID: [cs19mtech12011@iith.ac.in](mailto:cs19mtech12011@iith.ac.in)

Lakshmi Sravya K  
Contact: +91-9000272712  
Email ID: [cs19btech11017@iith.ac.in](mailto:cs19btech11017@iith.ac.in)

Pallavi Saxena  
Contact: +91-8939358668  
Email ID: [cs20mtech11020@iith.ac.in](mailto:cs20mtech11020@iith.ac.in)

Satvik Padhiyar  
Contact: +91-8000900072  
Email ID: [cs21mtech14011@iith.ac.in](mailto:cs21mtech14011@iith.ac.in)

M. Shathanand Sai  
Contact: +91-9704327082  
Email ID: [cs19btech11005@iith.ac.in](mailto:cs19btech11005@iith.ac.in)

Kommana Vikas  
Contact: +91-9330571478  
Email ID: [cs19btech11045@iith.ac.in](mailto:cs19btech11045@iith.ac.in)

Sai Siddhardha Grandhi  
Contact : +91-6300568214  
Email ID: [cs19btech11050@iith.ac.in](mailto:cs19btech11050@iith.ac.in)

Pelluri Srivardhan  
Contact: +91-9493376070  
Email ID: [cs19btech11052@iith.ac.in](mailto:cs19btech11052@iith.ac.in)

## Internship Coordinators

Ganesh Bombatkar  
Contact: +91-8830925862  
Email ID: [cs20btech11016@iith.ac.in](mailto:cs20btech11016@iith.ac.in)

Rama Sravanth  
Contact: +91-9550173710  
Email ID: [cs20btech11027@iith.ac.in](mailto:cs20btech11027@iith.ac.in)

Adil Salfi  
Contact: +91-8520918982  
Email ID: [cs20btech11031@iith.ac.in](mailto:cs20btech11031@iith.ac.in)

Shambhu Kavir  
Contact: +91-7569581011  
Email ID: [cs20btech11045@iith.ac.in](mailto:cs20btech11045@iith.ac.in)

T Srivatsan  
Contact: +91-8610593033  
Email ID: [cs20btech11062@iith.ac.in](mailto:cs20btech11062@iith.ac.in)

Tanmay Garg  
Contact: 9029685938  
Email ID: [cs20btech11063@iith.ac.in](mailto:cs20btech11063@iith.ac.in)