



INDIAN INSTITUTE OF TECHNOLOGY PATNA

PLACEMENT BROCHURE

Department of Computer Science and Engineering

2018-19

Message from

The Head of Department

Dr. Jimson Mathew

HOD, Department of CSE



The department of Computer Science and Engineering was among the first engineering branches to be setup at IIT Patna in 2008. The department runs B.Tech, M.Tech and PhD programmes. A joint M.Tech programme (Mathematics and Computing) is also offered with the department of Mathematics. The academic curriculum of the department is constantly revised to keep in pace with the current industry and research trends. The last revision being in 2015. In order to allow students flexibility in choosing their subjects of interest, over the years the number of elective courses has been increased. With a view to encourage creative ideas, the department introduced a lab course on Innovative Design in the undergraduate programme.

The department lays great emphasis in research and development. The department has close interaction with industry and research institutes both in India and abroad. Research labs have been setup in the department in collaboration with industry and government agencies - Elsevier Centre for Excellence of Natural Language Processing; ezDI Research Lab on Health Informatics, Network Security Lab; Advanced Computing Lab and Embedded Systems Integration Lab. A number of high value sponsored research projects are running in the department.

The faculty members of the department have received a number of awards and recognition - ACL President, 2016 (the highest body of NLP); Eminent Engineer Award by Institute of Engineers; NASI young scientist platinum jubilee award, 2016; BIRDAward 2016; IEI Young Engineers Award 2016 (Computer Engineering Discipline); Junior Humboldt Research Fellowship; JSPS Fellowship from Japan Govt among others.

This brochure has been designed to cater to a wide range of people who often seek specific information about the department and courses that we offer. To this end, we have compiled a set of useful information for individuals/organizations interested in our programs, our research endeavors, as well as information regarding the faculty. I hope you will find the information helpful. We always appreciate your feedback as to how we might make the materials more informative and enlightening. For any additional information, please do not hesitate to contact us.

About the Department

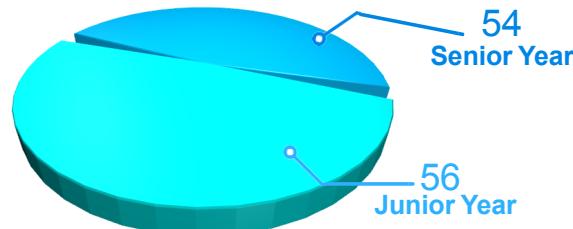
The department of Computer Science and Engineering came into existence in 2008 with minuscule faculty strength and minute undergraduate student body. This inadequacy was no deterrent to its bold decision to start the doctoral program right away.

The department offers B.Tech in Computer Science and Engineering (CSE), M.Tech and Phd in various specialized areas of CSE.

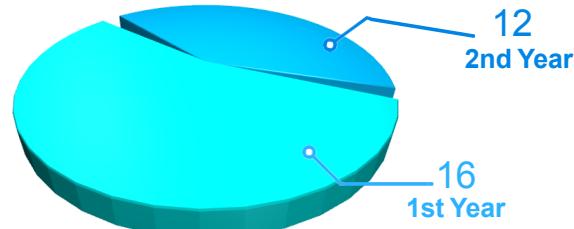
The department has witnessed a manifold raise in the size of the vibrant student body. Presently, all efforts are geared towards making this the first choice of aspiring undergraduates. This is being groomed to be the favored destination for research scholars brimming with ideas. Faculty strength is all set to multiply many times over with the planned addition of young and dynamic persons flashing enviable academic and research records.

The department boasts of generously equipped teaching and research laboratories. Doctoral candidates are liberally supported either by scholarships or by sponsored fellowships. Sponsored research and developmental activities add muscle to the buzzing academics.

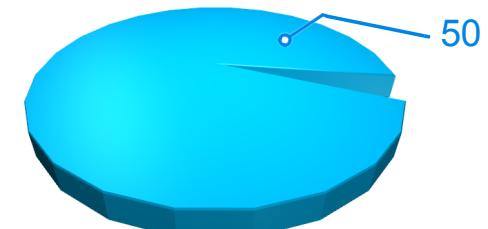
Demographics



B.TECH H.



M.TECH.



Ph.D.

Courses Offered

Core

- Software Engineering
- Computer Networks
- Computer Graphics
- Operating Systems
- Formal language and Automata
- Artificial Intelligence
- Machine Learning
- Introduction to Deep Learning
- Network Security
- Distributed Systems
- Databases
- Compilers
- Computer Security

Mathematics and Computing

- Discrete Mathematics
- OOPs and Data Structures
- Probability Theory and Random Processes
- Computation Topology
- Complex Analysis and Fourier Series
- Cryptography
- Algorithms
- Advanced Graph Theory

Devices

- Digital Design
- Computer Organization and Architecture
- Computer Peripherals and Interfacing

Achievements

Faculty's

- Prof. Pushpak Bhattacharyya : Eminent Engineer Awardee
- Prof.s elevated to the grade of IEEE Senior Member : Dr. Rajiv Misra, Dr. Sripama Saha, Dr. Somanath Tripathy, Dr. Jimson Mathew
- Dr. Asif Ekbal awarded JSPS Fellowship
- Dr. Sripama Saha awarded NASI-YOUNG SCIENTIST PLATINUM JUBILEE AWARD
- Prof. Pushpak Bhattacharyya has been invited to be the chair for NLPin IJCAI 2016, a flagship conference in Artificial Intelligence

Student's

- Three students of IIT Patna got selected for world ACM-ICPC finals held in Beijing where they showed exceptional performance and got 56th rank world wide and 3rd rank in India.
- 14 students in 2018 and 9 in 2017 have taken part in Google Summer of Code 2017.
- Team 'KisaanConnect' from IIT Patna, won 2nd prize, at the grand finale of Hackathon v2.0 mobile app development contest.
- Mr. Sumit Asthana has been invited for the Google Summer of Code Mentor Summit 2016, a global event extending across 103 countries.
- Two B.Tech students received DAAD wise fellow scholarships.

Technical Activities

NJACK

An active computer science student club, that regularly organizes classes for the students and teaches them different topics - like ethical hacking, competitive coding, android development and many more.

IEEE STUDENT BRANCH IIT PATNA

IEEE Student Branch of IIT Patna opened with a group of students enrolled in various M.Tech and Phd. Courses with a view to promote technical activities in the campus, city and the state of Bihar. Now with the involvement of B.Tech students too, the branch organizes yearly lectures, IEEE programs and conferences.

GIAN

A program approved by the Govt. of India aimed at tapping the talent pool of scientists and entrepreneurs, encourages their engagement with the institutes of Higher Education of India. Time to time GIAN courses and workshops are conducted with a great involvement of students.

CONFERENCES AND WORKSHOPS

In order to provide exposure to the students about the recent developments, conferences and workshops are being organized. Fifth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG) 2015 IEEE International Symposium on 5G

Tech Life

Apart from the above organised activities, the tech-culture here comprises of many passion driven practices that we take pride in

GSOC

- The number of students being selected for **Google Summer of Code** is increasing year by year.
- 14 students in 2018 and 9 in 2017 have taken part in Google Summer of Code 2017.

Hackathon

- Regular hackathons are organised with both broad and specific agenda.
- Team 'KisanConnect' won 2nd prize, at the grand finale of #HackForIndia

Research Activities

- Apart from the industrial projects, some students have published papers and/or journals
- Students frequently attend/present at conferences (with department support too)

Competitive coding

- Three students of IIT Patna got selected for world ACM-ICPC finals held in Beijing where they showed exceptional performance and got 56th rank world wide and 3rd rank in India.

Open Source

- Students here, understand the importance to give back to the community.
- Computer Science club of IITP, NJACK saw huge participation in a program called Winter of Code organised with the help of Github.

Internship

The students at IITP are encouraged for industrial, research and student exchange programmes.

Previously the students have done internships in:

Industrial Internship

- Adobe
- Amazon
- Arista Networks
- Bosch
- Code Nation
- Cognizant
- GS
- Google
- Microsoft
- NextOrbit
- United Health Group
- Wipro

Research Internship

- Georgia Tech
- University of Missouri
- NTU, Singapore
- NTHU, Taiwan
- IIT Madras
- IIT Delhi
- University
of
Hamburg

Past Recruiters

Adobe Delhi

Amazon

Arista Networks

Bank of America

Bank of India

Browser Stack

Capgemini

Cisco

ConnectIO

Deloitte

Directi

Doodle Blue

EDU VISION

ezDi Data Intelligence

Finisar

Flipkart

GS

Google

H.P.

IBM GBS

Infosys

Loginext

Microsoft

Morgan Stanley

Paytm One97

Practo

RapidBiz Apps

Resonance Eduventure

Samsung

Siemens

Tata Consultancy

Transweb Educational

Trident

UnitedHealth Group

Wipro

Yodlee Infotech

Zeus Numerix

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