INDIAN INSTITUTE OF TECHNOLOGY PATNA

PLACEMENT BROCHURE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (MTECH)

2021-2022

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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, MTech and PhD programmes. A joint MTech 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; BIRD Award 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 miniscule 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.

From the desk of ..
Asst. Prof . Rajiv Mishra..

- ✓ *The MTech program in Computing Science and Engineering is flagship programme of CSE Department offers unique curriculum with Industry relevance. Courses such as- Big Data, Cloud Computing becomes importance of time which caters to application in area of IT, Fintech, Telecom and Retails.*

- ✓ *Post-graduate candidates are trained to cater need of industry with requisite skills of both analytical and computational to solve practical problems of society. The industry such as Amazon, Microsoft, Google, Bloomberg, Deloitte Etc, are major recruiters to the graduates. I am sure that they will excel in every walk of life.*

IIT Patna

M.Tech. Computer Science & Engg. Faculty Group

Research areas:
Fault Tolerant Computing, VLSI. Design and Methodologies, Reliability Aware Designs, Hardware Security etc.

Dr. Jimson Mathew

Research areas:

802.11 Wireless Network
Wi-Fi Security
Discrete Event Modeling

Dr. Mayank Agarwal

Research areas:
Fault Tolerant Computing, VLSI. Design and Methodologies, Reliability Aware Designs, Hardware Security etc.
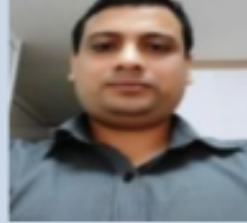
Dr. Rajiv Misra

Research areas:

CAD for VLSI, Analog EDA

Dr. Arijit Mondal

Research areas:
Natural Language Processing , Data Mining and Machine Learning Applications, Information Extraction, Bio-text Mining, Machine Learning in Social Networks

Dr. Asif Ekbal

Research areas:
Pattern Recognition, Multi-objective Optimization, Bio-Text Mining, Bioinformatics, Soft Computing

Dr. Sriparna Saha

Research areas:
Peer-to-Peer Systems, Online Social Networks, Complex Networks, Distributed Systems
Other interest

Dr. Joydeep Chandra

Research areas:

Wireless Networking, Mobile Social Computing, Human Computer Interaction

Dr. Sourav Kumar Dandapat

Research areas:

Online Algorithms, Complex Networks, Social Networks, Big Data

Dr. Abyayananda Maiti

Head, Department of Computer Science & Engineering

Research areas:
Security & Privacy and Database Systems

Dr. Samrat Mondal

Research areas:
Image Processing, Medical Imaging, Bioinformatics, Computer Vision

Dr. Suman Kumar Maji

Associate Dean, Academic

Research areas:
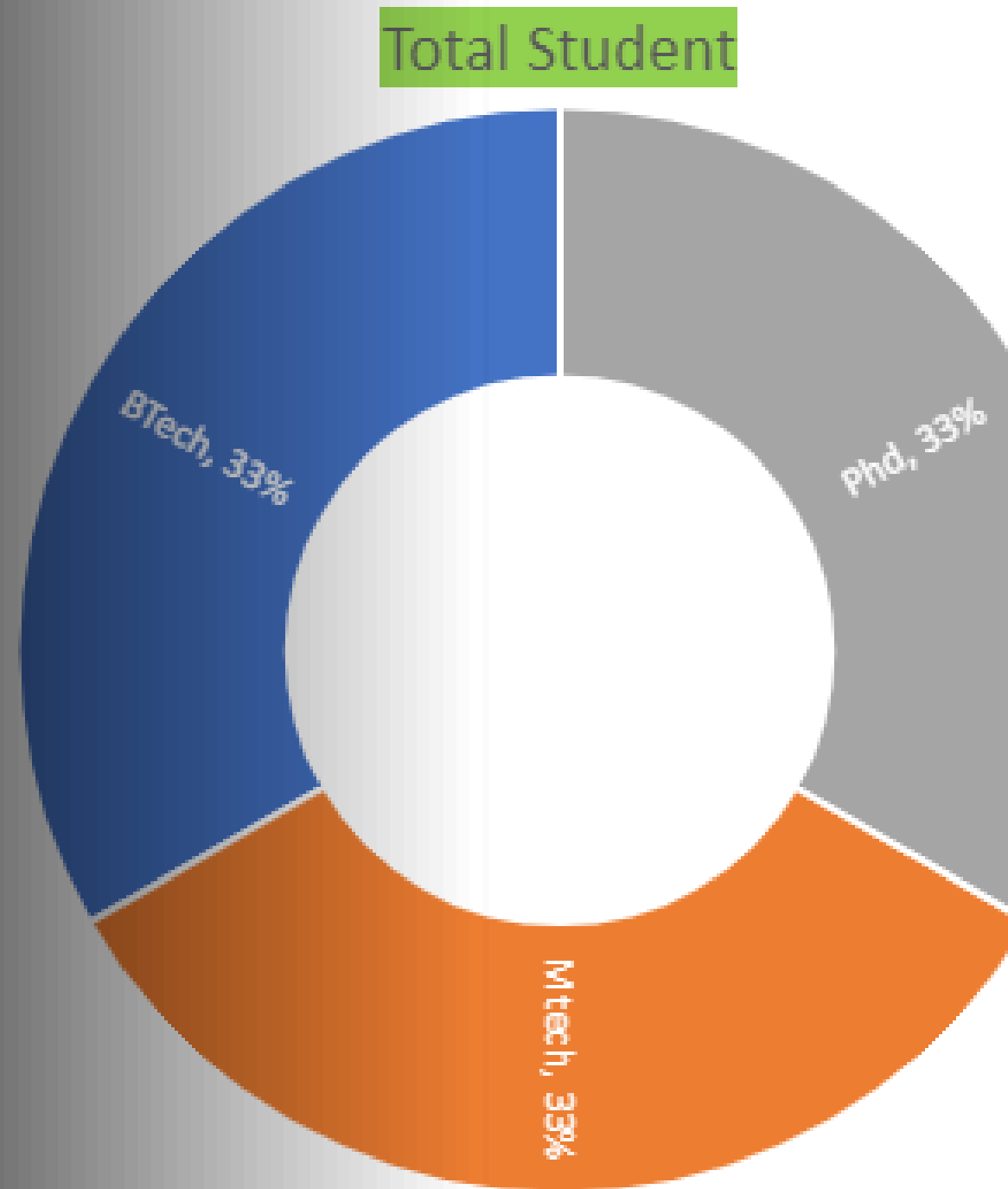Lightweight Cryptography, Computer Security, Network Security

Dr. Somanath Tripathy

Research areas:
Formal Methods, Abstract Interpretation, Programming Languages, Static Analysis and Verification, Databases.

Dr. Raju Halder

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Programs and Demographics

For the batch 2020-2022
Computer science & engineering
(M.Tech)

Total Students: 17
Male Students: 13
Female Students: 4

Total Student

BTech, 33%

Phd, 33%

Mtech, 33%

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IIT Patna

• Courses

MTech 1st Sem

Foundation of Computer Systems
Probability Statistics and Stochastic Processes
Technical Communication

MTech 2nd Sem

Foundation of Theoretical Computer
Science Design And Analysis Of Algorithms
Computer systems LAB

Electives

Machine Learning
Artificial Intelligence
Natural Language Processing
Deep Learning
Computer Network Security
Big Data
Cloud Computing
Blockchain and Cryptocurrency
Formal Methods and Analysis
Time Series Analysis
Introduction to Network science

IIT Patna

• Technical Activities

Google Summer of Code

The number of students being selected for Google Summer of Code is increasing year by year

Hackathon

Regular hackathons are organized with both broad and specific agenda

open source

• Students here, understand the importance to give back to the community.

• various contributions are made to the open source projects across broad range of fields.

Competitive coding

• Participation in various competitive contests is the most outstanding part of the students here.

• Many significant achievements were made at acm-icpc, google code-jam, snackdown, etc..

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IIT Patna

Industrial Internship

NOVARTIS

intel

DELL

BOSCH

ARISTA

TCS TATA CONSULTANCY SERVICES

NVIDIA

Research Internship

Georgia Tech

MU Mizzou University of Missouri

NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

國立清華大學 NATIONAL TSING HUA UNIVERSITY

IIT MADRAS Indian Institute of Technology Madras

IIITD INDRAPRASTHA INSTITUTE of INFORMATION TECHNOLOGY DELHI

Indian Institute of Science भारतीय विज्ञान संस्थान

- Recruiters

IIT Patna

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Contacts

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