

Opportunities@CSA

The department has maintained an excellent reputation for high quality degree programs. Entry into all degree programs is highly competitive. All students are offered scholarships during their period of study, subject to satisfactory performance.

Post-Doctoral/ Research Associate Fellowships

The department invites accomplished Ph.D. graduates to apply for post-doctoral fellowships/ research associate positions, including the IISc Centenary Post-Doc positions.

Research Programs

CSA offers two research programs, M.Sc. (Engg.) and Ph.D., that train a student to become a perceptive and sound researcher. Students are expected to conduct independent research under the supervision of a faculty member, prepare a research proposal, and write a dissertation describing their original work. The anticipated time to earn the Ph.D. and M.Sc. (Engg.) degrees are 4 and 2 years, respectively. Before completion of their programs, students are expected to present and publish their research results at premier international fora.

Course Programs

The two course-based masters programs currently offered by the department are structured to provide a solid foundation in core areas of computer science through course work while allowing enough flexibility for the student to pursue an area of specialization in their research projects. M.E. (Computer Science and Engineering) is the flagship program of CSA that attracts the best students in the country. The M.E. (Systems Science and Automation) program, jointly offered with the Electrical Engineering Department is a unique program that blends computer science and systems science towards problem solving.

External Registration Program (ERP)

This program enables graduates working in public or private organizations including educational institutions to pursue a research degree at the department.

Quality Improvement Program (QIP)

This program is meant for faculty members in AICTE affiliated engineering colleges who wish to pursue an M.E. or a Ph.D. degree in the department.

Summer Internship Program

The department hosts about 25 undergraduate engineering students during summer towards an exciting research internship program.

Faculty@CSA

Shivani Agarwal, Assistant Professor
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Machine learning, statistical learning theory,
computational biology, chem-informatics,
information retrieval

Shalabh Bhatnagar, Professor
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Performance analysis, stochastic control and
optimization, simulation, communication
networks

Indrajit Bhattacharya, Assistant Professor
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Machine learning, data mining, graphical
models

Chiranjib Bhattacharyya, Associate Professor
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Machine learning, convex optimization,
bioinformatics

Sunil Chandran, Associate Professor
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Graph theory, combinatorics, algorithms

Sanjit Chatterjee, Assistant Professor
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Cryptography, information security

Susheela Devi, Senior Scientific Officer
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Pattern recognition, data mining, soft
computing

Deepak D'Souza, Associate Professor
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Automated verification

Ambedkar Dukkipati, Assistant Professor
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Algorithmic algebra and algebraic geometry,
Information theory and statistical learning

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Operating systems, storage systems, systems
security

R. Govindarajan, Professor
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Computer architecture, compiler
optimizations, high performance computing
(Associate Faculty)

Sathish Govindarajan, Assistant Professor
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Combinatorial geometry, spatial data
structures, computational geometry

R.C. Hansdah, Associate Professor
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Operating systems, fault tolerant and secure
distributed computing, wireless networks

Ramesh Hariharan, Adjunct Faculty (Strand
Life Sciences)
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Algorithms, computational biology

Jayant R. Haritsa, Professor
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Database systems
(Associate Faculty)

Aditya Kanade, Assistant Professor
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Formal methods, software design and analysis,
analysis of embedded software

Ravi Kannan, Adjunct Faculty (Microsoft
Research India)
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Theoretical computer science, optimization,
massive data sets, sampling, clustering

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Information theory, coding theory
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Cognitive science, computational number
theory, cryptography, security

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Pattern recognition, data mining

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Game theory, auctions and mechanism design,
social network analysis

Vijay Natarajan, Assistant Professor
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Scientific visualization, computational
topology, computational geometry, graphics

L.M. Patnaik, Honorary Professor
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Architecture, VLSI, neural networks, genetic algorithms, real-time systems

Dilip P. Patil, Professor
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Commutative algebra, algebraic geometry
(Associate Faculty)

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Programming languages, programming tools, software engineering

B. Uday Kumar Reddy, Assistant Professor
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Parallelization, compiler design, multi-core programming

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Knowledge-based systems, decision support systems, reliable computing

Shirish K. Shevade, Associate Professor
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Machine Learning, data mining

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Compiler design, power aware computing, program analysis

Matthew Jacob Thazhuthaveetil, Professor
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Computer architecture
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Service science, emerging markets, logistics, supply chain design

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