

Specializations available at IIT Goa for PhD

Areas of Specializations
Engineering
1. Computer Science and Engineering
Theoretical computer science, automata theory, algorithms, mathematical logic, Software/Hardware verification, Computer Architecture, Reconfigurable Computing, Assistive Technologies, Machine/Deep Learning Hardware, Cybersecurity, Computer Systems Security, Machine learning, Applied statistics, Data science, Big-data analytics
2. Electrical Engineering
Integrated Circuits and Systems, VLSI For Communication, Optical Communication Systems
3. Mechanical Engineering
Particulate Materials, Dem
Fluid Mechanics (High Speed Aerodynamics (Continuum/Rarefied), Turbulence, Bio-Fluid Mechanics)
Bio-Inspired Fluid Dynamics, Turbulent Flows, Computational Mechanics, Fluid Structure Interaction
Radiative Heat Transfer, Atmospheric Science, High Reynold Number Flows, Bio-Fluid Dynamics
Industrial Engineering areas (Interdisciplinary): Reliability Engineering, Maintenance Engineering, Multi-Attribute Decision Making
Sciences
1. Chemistry
Synthetic Organic Chemistry, Enantioselective Catalysis, Medicinal Chemistry
Ultrafast Spectroscopy, Physical Chemistry.
2. Mathematics
Numerical Analysis and Computational Finance
Numerical Analysis, Partial Differential Equations
Humanities and Social Sciences
1. English Literature
English Language and Literature