IIT KANPUR

Indian Institute of Technology Kanpur

DEPARTMENT OF INTELLIGENT SYSTEMS

POST GRADUATE PROGRAM

2026 - 27

https://iitk.ac.in/dis/

DEPARTMENT OF INTELLIGENT SYSTEMS

The Department of Intelligent Systems offers M.Tech, MS(R), and Ph.D. programs in machine learning, data science, natural language processing, computer vision, cyber-physical systems, robotics, and related fields. These postgraduate programs emphasize rigorous research training and advanced specialization, equipping students with a solid foundation and the ability to address challenging real-world problems. The programs are designed to prepare graduates for impactful careers in industry, research, and academia across the rapidly evolving field of intelligent systems.











POST-GRADUATE PROGRAMS OFFERED

For detailed information regarding eligibility and minimum qualifications, applicants should refer to the website of the Dean of Academic Affairs (www.iitk.ac.in/doaa/). Candidates are also advised to check https://iitk.ac.in/dis/ for regular updates on DIS admissions.

M.Tech.

In M.Tech. program, a student takes eight courses, some of which may be compulsory for the area of specialization chosen, the rest being electives to be chosen in consultation with the program advisors. The program also includes a research/project component, which culminates in a thesis.

MS(R)

In MS(R) program, a student has to complete a minimum of four courses in the area chosen by the student in consultation with the thesis advisor. After completing the course work, the student is expected to do research work leading to a thesis. Focus on research makes this program exciting and provides in-depth knowledge to the student.

Ph.D.

In the Ph.D. program, students need to complete minimum of four courses. The most important part of the doctoral program is the research work leading to a thesis. Students work on exciting research problems, usually sponsored by industry or government agencies, come up with innovative/original ideas, build cutting edge systems, and publish in top tier international venues.

FACULTY LIST



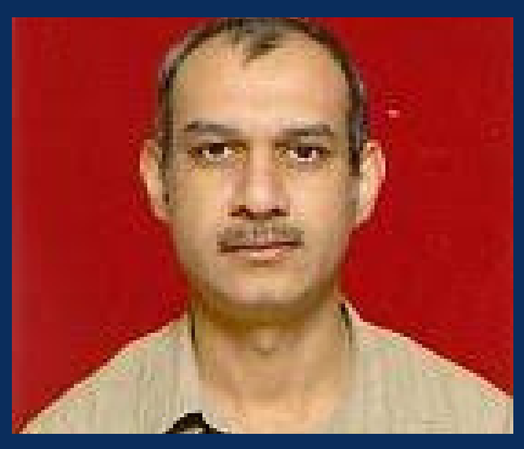
Manindra Agrawal



Nitin Saxena



Indranil Saha



Shakti S. Gupta



Vimal Kumar



Piyush Rai



Ketan Rajawat



Amey Karkare



Soumya Ranjan Sahoo



Rohit Budhiraja



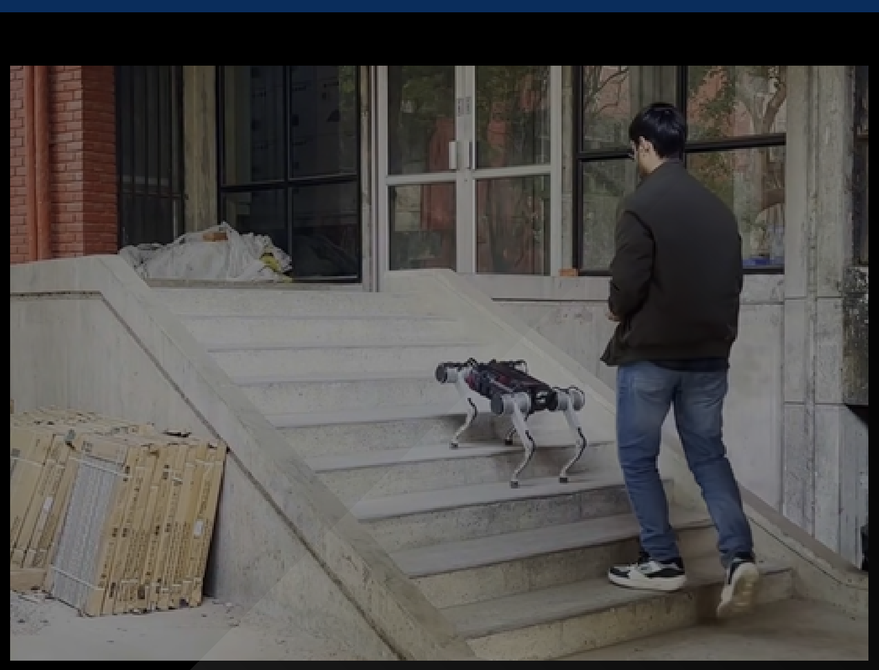
Rajiv Ratn Shah



Ashwin Verma

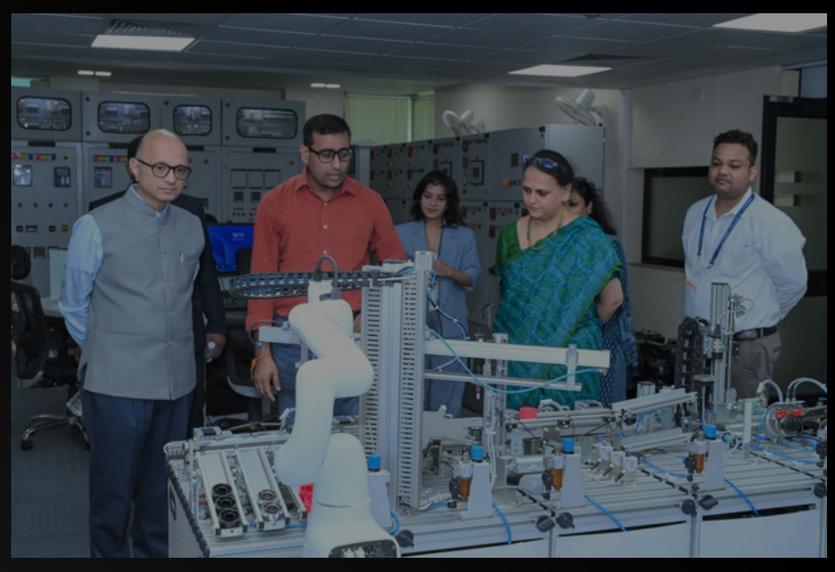
LABS / FACILITIES

The department provides well-equipped laboratories with the necessary instruments, computing infrastructure, and workstations to support research activities and hands-on practical learning.













FINANCIAL ASSISTANCE

Non-sponsored Indian nationals admitted to the regular full-time PG program are eligible for financial assistance as per institute norms. Students receiving assistantship may be required to participate in teaching or research activities assigned by the department, such as serving as a teaching assistant or tutor.

BROAD RESEARCH AREAS

Artificial Intelligence and Machine Learning

Faculty Members: Piyush Rai, Rajiv Ratn Shah, Nisheeth Srivastava, Amey Karkare

Probabilistic and generative AI, natural language processing, multimodal learning, human-AI interaction, and intelligent educational technologies.

Robotics and Cyber-Physical Systems

Faculty Members: Shakti S. Gupta, Indranil Saha, Soumya Ranjan Sahoo

Design, planning, control, coordination, and verification of autonomous robots, UAVs, and multi-robot systems.

Optimization and Intelligent Networks

Faculty Members: Ketan Rajawat, Ashwin Verma, Rohit Budhiraja

Stochastic and distributed optimization, machine learning, multi-agent systems, networked inference, and intelligent 5G/6G wireless communications.

Cybersecurity and Cryptography

Faculty Members: Manindra Agrawal, Somitra Sanadhya, Nitin Saxena

Cryptography, secure communication protocols, post-quantum security, cybersecurity algorithms, and mathematical foundations of secure computing.

CONTACT

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