



IIT KANPUR
Indian Institute of Technology Kanpur

W WADHWANI SCHOOL OF AI
& INTELLIGENT SYSTEMS



WADHWANI SCHOOL OF AI & INTELLIGENT SYSTEMS

About

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

- Established in 1959, is one of the premier institutions established by the Government of India.
- Provides meaningful education, original research, and leadership in innovation.
- Strong focus on fundamentals of science & engineering, expanded to interdisciplinary fields like design, management, materials, AI and Intelligent Systems.

Students
9500+

Alumni
47000+

Faculty Members
570



DISTINGUISHED ALUMNI



Shri Ashwini Kumar Vaishnaw
(MT/IME/1994)
Cabinet Minister Ministry of Railways Govt. of
India



Mr. Sanjay Malhotra
(BT/CSE/1989)
Governor of the Reserve Bank of India



Mr. Gyanesh Kumar
(BT/CE/1985)
Chief Election Commissioner of India



Dr. Arvind Krishna
(BT/EE/1985)
Chairman and Chief Executive Officer of
IBM



Mr. N. R. Narayana Murthy
(MT/EE/1969)
Co-founder, Infosys



Mr. Rakesh Gangwal
(BT/ME/1975)
(Co-founder, Indigo)



Prof. Ashutosh Sharma
(BT/CHE/1982)
(Secretary, Science & Tech)



Prof. Ashoke Sen
(MSC2/PHY/1978)
(Professor, Harish Chandra Research Institute)



Prof. Atish Dabholkar
(MSC5/PHY/1985)
Director, Assistant Director General ,
International Centre for Theoretical Physics, UNESCO

KEY STATISTICS

2000+

Research publications every year

₹ 1540+ Cr

Research funding in the last three years

1000+

Patents filed

150+

Companies incubated

Rankings



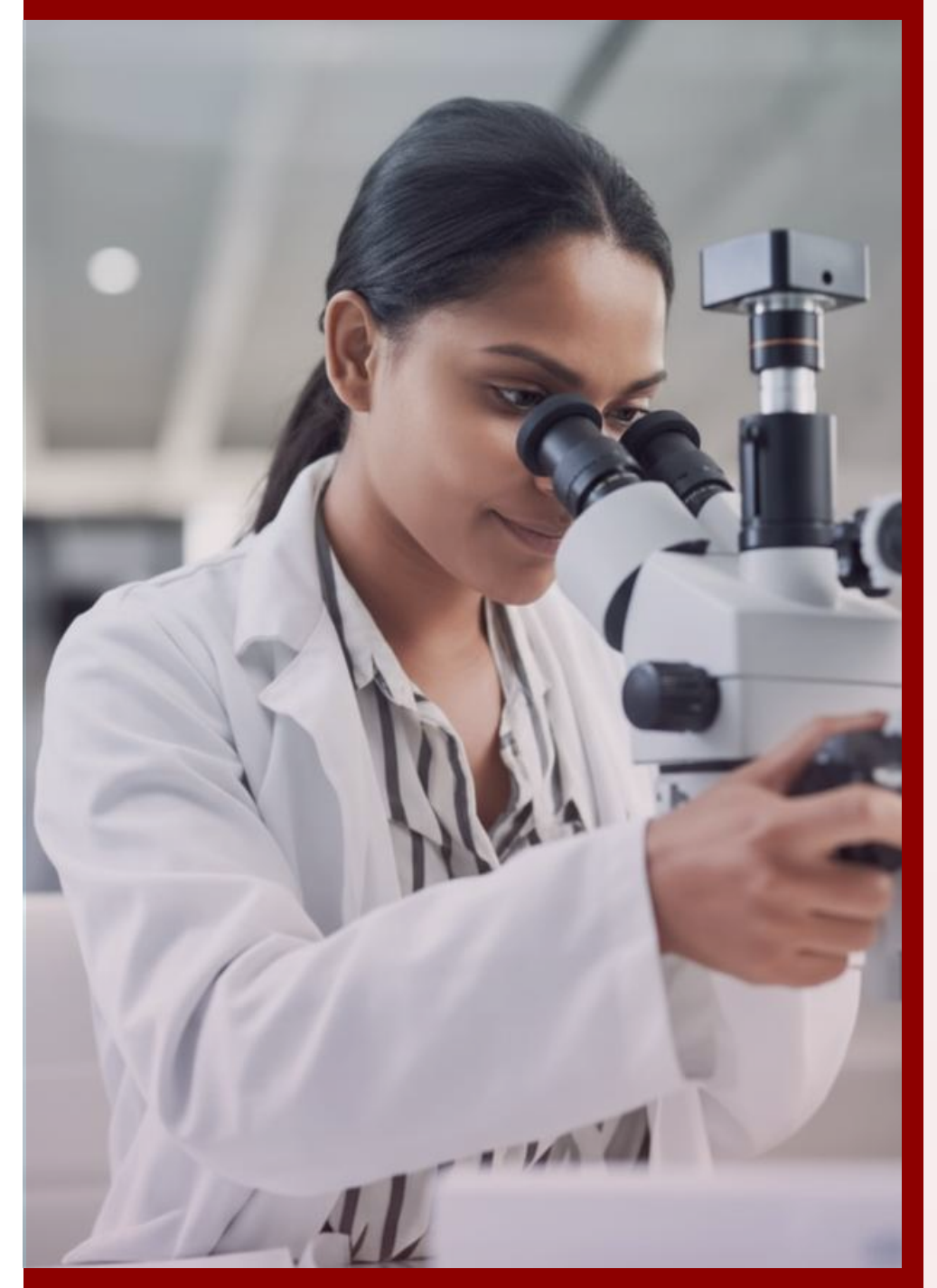
Graduation Outcome (GO)
in Engineering by NIRF



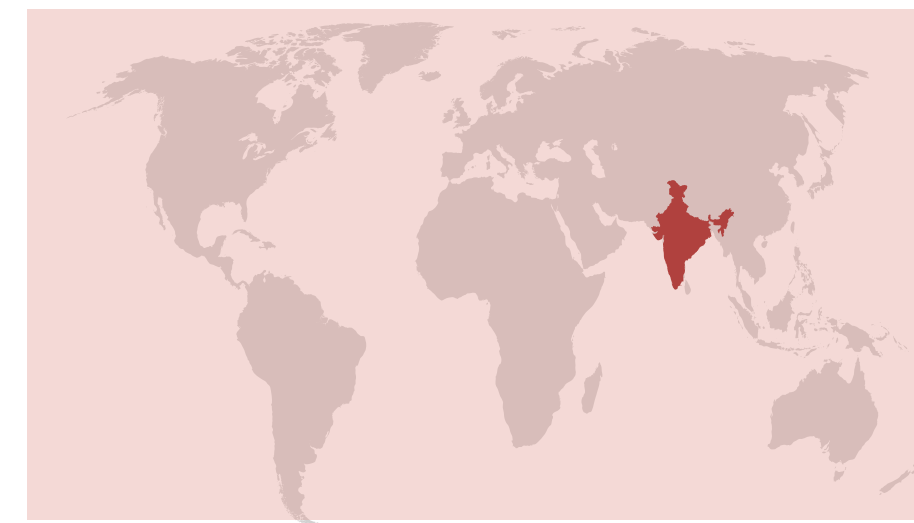
Asian University Rankings -
Southern Asia

51-110

QS WUR Ranking By Subject
Computer Science and
Data Science



IIT Kanpur – Location & Connectivity



About

WADHWANI SCHOOL OF AI & INTELLIGENT SYSTEMS

- Pioneering academic programs in intelligent systems
- Linking machine intelligence with real-world impact
- Enhancing the productivity of India's workforce
- Four research centres and Department of Intelligent Systems
- Translating AI & Intelligent systems research into industry and society



**Signed in the presence of
Hon'ble Prime Minister of India**

WSAIS **FOCUS**

Cybersecurity of Cyber-Physical Systems

Protecting critical infrastructure with advanced security and resilience measures.

Interdisciplinary Research and Translation

Bridging AI with engineering, life sciences, social sciences, and sustainability challenges.

Real-World Impact and Entrepreneurship

Supporting startups and solutions that address industry and societal needs

AI Policy and Outreach

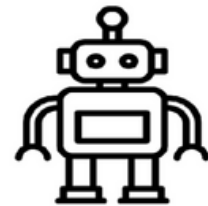
Guiding ethical AI use, policy frameworks, and fostering public engagement.

Department



Department of Intelligent Systems (DIS)

CENTERS



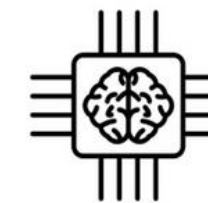
Wadhwani Center for Robotics (CR)



Wadhwani Center for AI Policy and
Outreach (CAPO)



Wadhwani Center for Cybersecurity of
Critical Infrastructure (C3i)



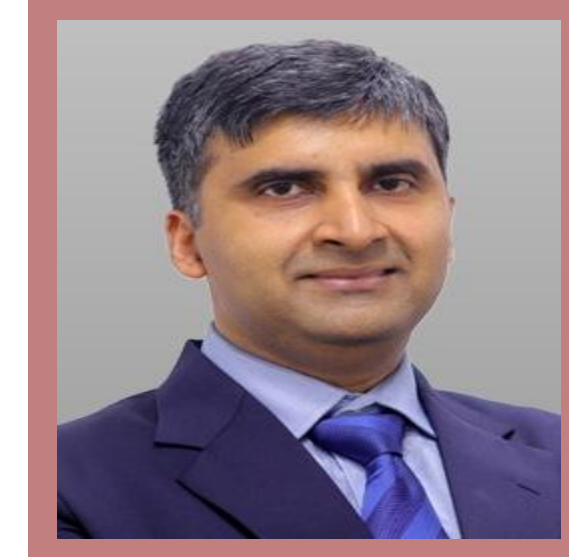
Wadhwani Center for Developing
Intelligent Systems (CDIS)

WSAIS LEADERSHIP AND CORE TEAM

14
Faculty Members



PROF NITIN SAXENA
Dean, WSAIS
Coordinator, CDIS



PROF INDRANIL SAHA
HoD, DIS



PROF SHAKTI S. GUPTA
Coordinator, CR



PROF VIMAL KUMAR
Coordinator, CAPO



PROF SOMITRA SANADHYA
Coordinator, WC3i

E- GOVERNANCE PROJECTS AT SCALE

IGMS: Integrated Grievance Management System

Objective
Speed up grievance resolution;
identify process gaps.

Features
AI-based classification,
ministry prediction,
spatio-temporal filters

AI CoE : National AI-CoE for Sustainable Cities
Objective
Predict demand & optimize
interventions for
urban services.

Features
Energy, traffic & air
quality prediction;
grievance analytics.

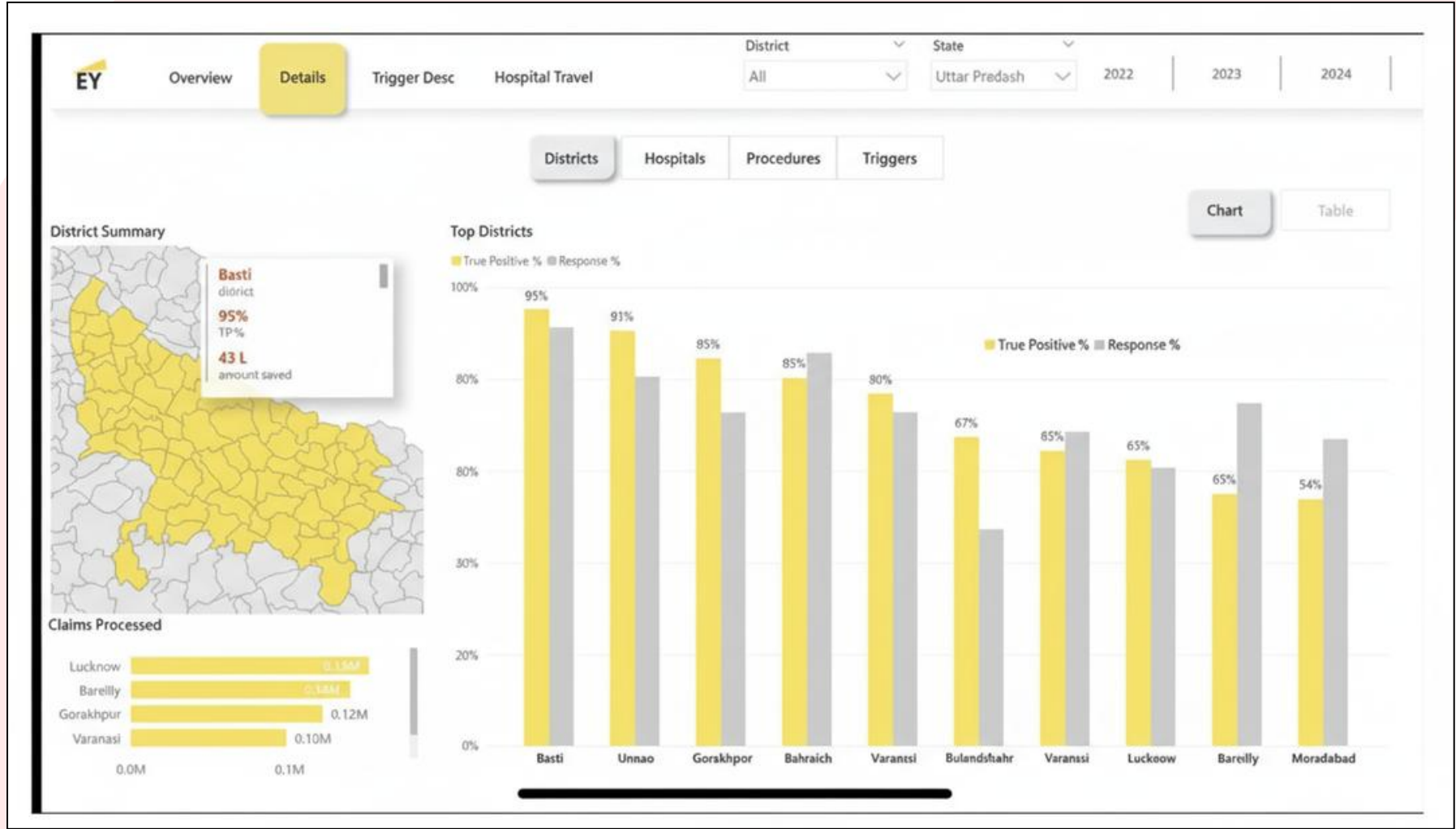
ECHS:Ex-Servicemen Contributory Health Scheme

Objective
Unified claims platform;
automate scrutiny & fraud
detection.

Features
OCR-based data
extraction, auto-
categorization, AI
fraud checks.

UP Health Stack
Objective
Improve PHC/CHC utilization;
expand access
via digital tools.

Features
AI diagnostics,
telemedicine app, EHR,
auto-escalation,
chatbot.



INNOVATIONS IN INTELLIGENT SYSTEMS & ROBOTICS



Model-Free RL for Complex Dynamical Systems

Objective: Synthesize feedback controllers for various complex systems with unknown dynamics.



Framework for Multi-Robot Systems with LTL Specification

Objective: Enable real-time, logic-driven coordination of multiple robots for complex tasks in changing environments.



Quadruped robots for industrial inspections

Objective: To develop indigenous quadruped robots for safer, more efficient inspections.

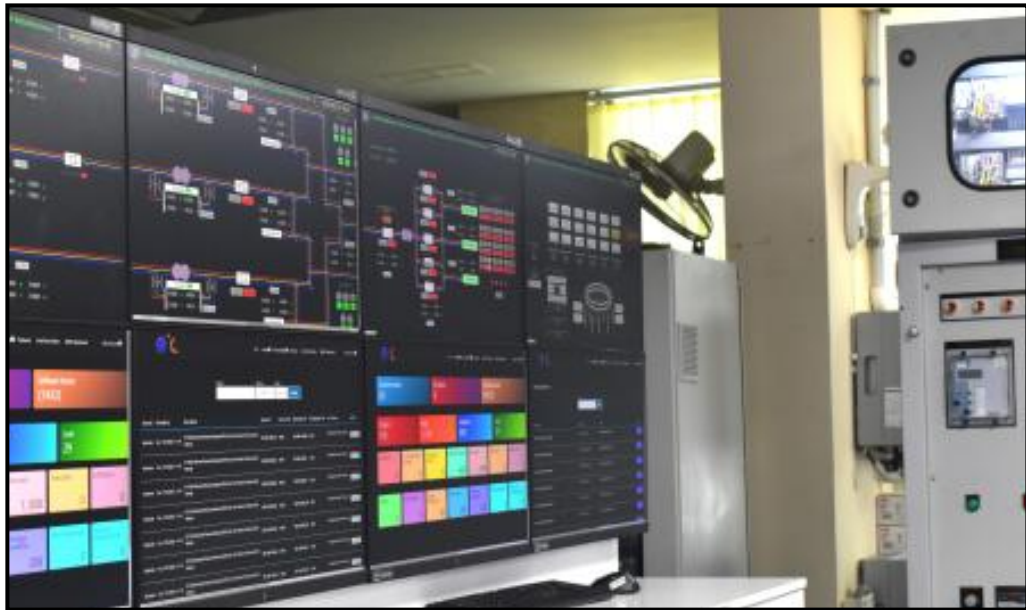
SVAN M2 : India's first commercial quadruped robot



Applied Innovation in Multi-UAV Systems

Objective: Empowering engineers to implement cutting-edge swarm communication and antenna tracking innovations for real-world UAV deployments.

CRITICAL INFRASTRUCTURE SECURITY



ICS Security Testing & Training

Transforming existing R&D facility to National-level ICS security Testing & Training Facility



Cyber Security Capability Maturity Model

Nation-wide CSCMM implementation at all critical sector organizations through NCIIPC



IT & OT Security Operation Center

Aiming to deploy AI-Integrated IT-OT SOC at all critical infrastructure organizations

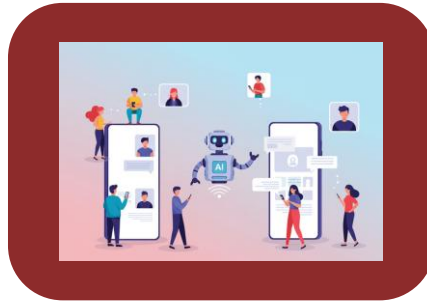
AI POLICY AND OUTREACH

The National Centre for Good Governance (NCGG), in collaboration with Indian Institute of Technology, Kanpur, has launched a week-long training programme.

Data-Driven Governance: Technology, Economics & Public Policy

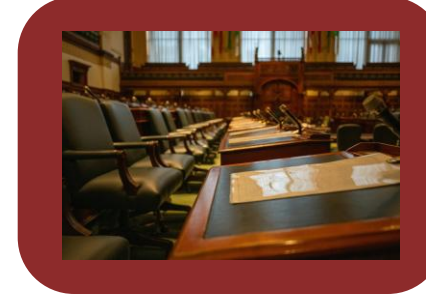


WHAT MAKES WSAIS UNIQUE?



Focus on Translational Projects

Support for entrepreneurial initiatives to translate research into real-world solutions.



Strong Partnerships with Government of India

Proven products, services, and training ensuring national impact.



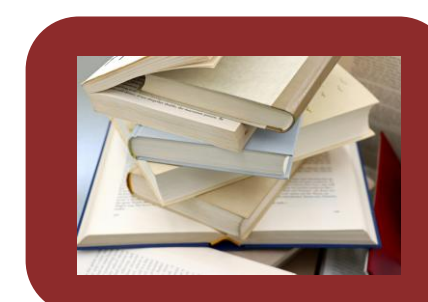
Project Support for Faculty

Resources to assist innovators with project proposals, presentations, and reviews.



Initiation Grant for Faculty

Financial support available to encourage early-stage innovation.



Fellowship for Students

Fellowship for top-performing students and researchers, recognizing and rewarding excellence.

Opportunities at WSAIS

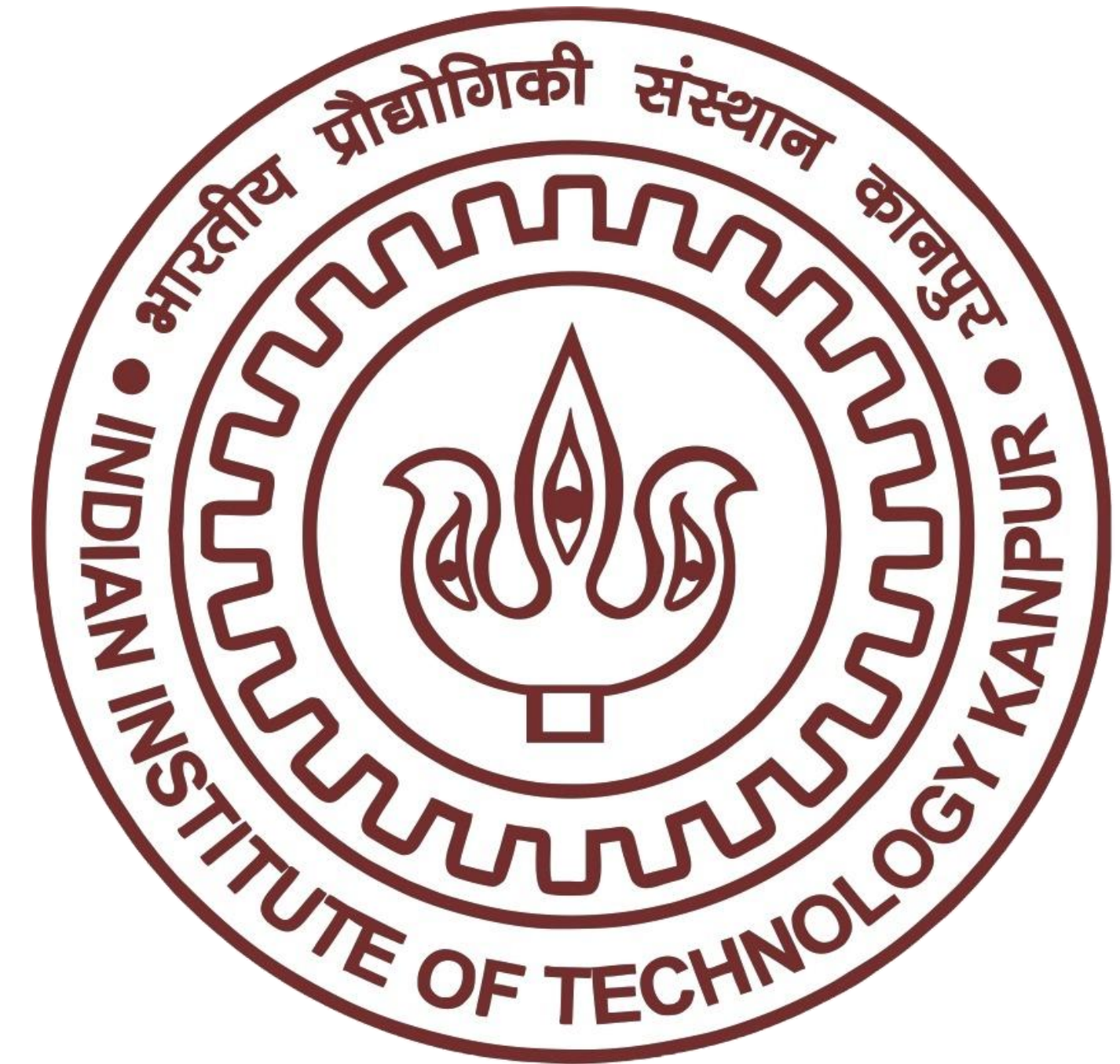
- Graduate Programs started in 2025.
- Undergraduate Programs commencing in 2026.
- Hiring faculty and researchers passionate about impactful, real-world AI research.
- Be part of a school that fosters innovation, entrepreneurship, and global collaborations.



Contact us

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- 📍 IIT Kanpur, Kanpur, Uttar Pradesh, India

SW WADHWANI SCHOOL OF AI
& INTELLIGENT SYSTEMS



The background features two large, light pink geometric shapes. One is a triangle on the left side, and the other is a quadrilateral on the right side, both pointing towards the center.

THANK YOU