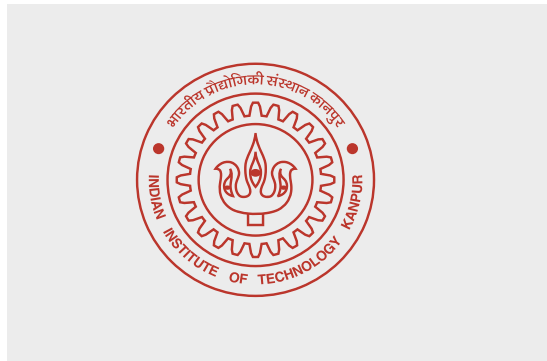


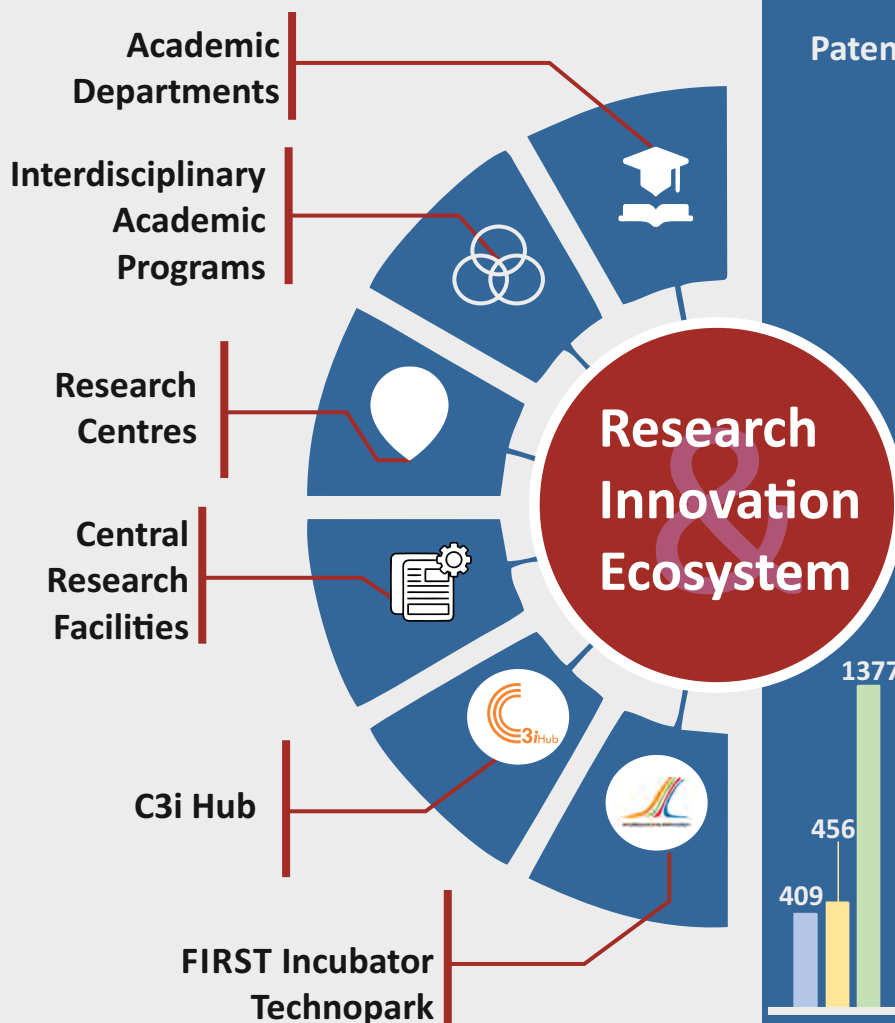
RESEARCH & DEVELOPMENT at-a-glance

Indian Institute of Technology Kanpur



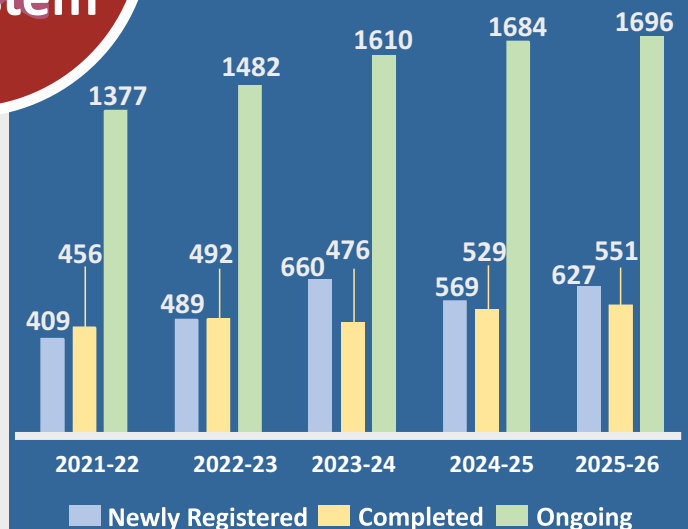
Research @ IITK

The Institute's research and development activity aims at innovation and technology development through interaction with universities, governments and industries to meet the needs of the society and industry. The Institute faculty, research staff and students conduct research with goals and objectives ranging from intellectual curiosity, addressing contemporary challenges, developing technology, societal benefits or writing scholarly publications.



2025-26

Projects Registered	• 627
Projects Completed	• 551
Projects Ongoing	• 1696
Total Fund Received	• ₹ 532 cr
Technology Licensed	• 4
Patents Filed	• 155
Patents Granted	• 106



Number of Projects over last 5 years

Research Centre

- Advanced Centre for Material Science
- Advanced Centre for Electronic Systems
- Advanced Imaging Centre
- Centre for Mechatronics
- Centre for Lasers and Photonics
- Center for Cyber Security of Critical Infrastructure
- NCFlexE
- Central Experimental Animal Facility
- Centre for Nanosciences
- EMI/EMC and Electrical Safety Testing Facility
- Ion beam facility
- Mehta Family Centre for Engineering in Medicine
- National Wind Tunnel Facility
- National Aerosol facility
- Centre for Developing Intelligent Systems
- Centre for Energy Regulation
- Center for Ganga River Basin Management and Studies
- Center for Education Research and Teaching Excellence



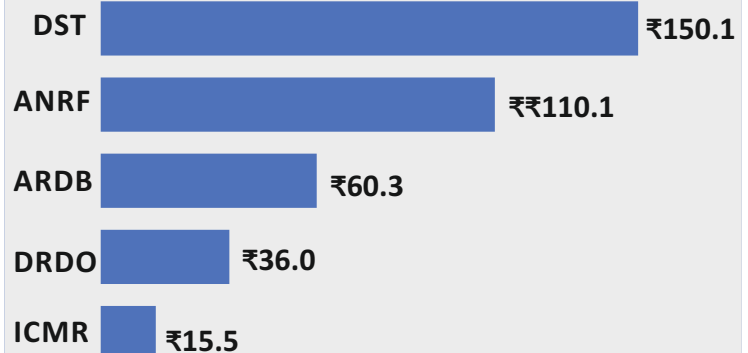
Centre of Excellence

- Integrated Computational Materials Engineering (ICME) National Hub
- ICMR- DHR-COE Medical Research and Innovation
- Centre for Excellence in Advanced Technologies for Monitoring Air quality indicators
- Centre of Excellence for Media and Broadcasting Technologies
- Centre for Geodesy
- C-DOT IITK Centre of Excellence
- DRDO Industry Academia Centre of Excellence (DIA-CoE), IIT Kanpur
- IIT Kanpur-UB Joint Centre of Excellence in Biomedicine and Bioengineering
- Centre of Excellence for UAV/Drone.
- Nmtronics Centre of Excellence for Electronics Manufacturing and Skills Development
- Centre of Excellence in Antimicrobial Resistance
- Jeet Bindra Center of Excellence in Speciality Chemicals
- Wadhvani Innovation Network -Centre of Excellence (WIN-CoE)

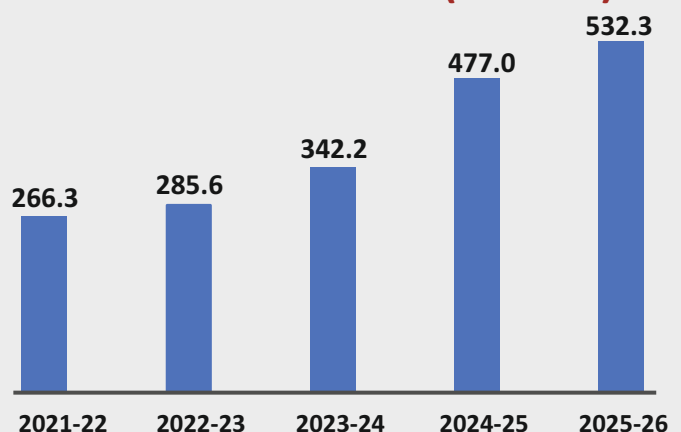
Major Govt Funding Agency

- Aeronautics Research and Development Board (ARDB)
- Anusandhan National Research Foundation (ANRF)
- Board of Research & Nuclear Sciences (BRNS)
- Central Power Research Institute (CPRI)
- Council of Scientific & Industrial Research (CSIR)
- Defence Research & Development Organisation (DRDO)
- Dept. of Science & Technology (DST)
- Dept. of Biotechnology (DBT)
- Dept. of Atomic Energy (DAE)
- Ministry of Electronics and Information Technology (MEITY)
- Dept. of Scientific and Industrial Research (DSIR)
- Indian Space Research Organisation (ISRO)
- Indian Council of Medical Research (ICMR)
- Ministry of Education (MoE)
- Ministry of Earth Sciences (MoES)
- Ministry of Environment, Forests & Climate Change (MoEFCC)
- Ministry of Power (MOP)
- Ministry of Coal (MoC)

Leading Funding Agencies 2025-26 (₹Crore)



Total Funds Received (₹ Crore)



Key Roles of R&D Office

- Management of funds for sponsored consultancy and testing projects
- Appointment of project staff from R&D funding
- Facilitating the purchase of equipment and consumables from R&D funding
- Legal consultation for MoU vetting
- Providing initiation grants to new faculty members
- Promoting Institute-Industry interactions
- Distribution of salaries for all project staff
- Accommodation arrangements for project staff at the Institute
- Outreach for R&D through newsletters, research magazines, posters, and convocation reports
- Hosting delegates and facilitating lab visits, Institute lectures, and faculty interactions
- Providing logistical support to faculty members for preparing large grant proposals
- Organizing Institute lecture series, Research Event

Industrial Collaboration

The focus of research at IIT Kanpur is to generate new ideas, to create innovative solutions and to reveal basic principles of matter with an emphasis on using all this knowledge in developing practical engineering and technological applications. In this process institute works closely with the industry partner with the objective of adding value to their products and services and bringing novel solutions for the society at large

Collaborations

- Industry Sponsored Projects
- Licensing of Patents & Technology Transfer
- Advanced Material Testing Facility
- Short term and Long term internship programme
- Industry Oriented Workshops, Seminar, Conference

Industrial Cell

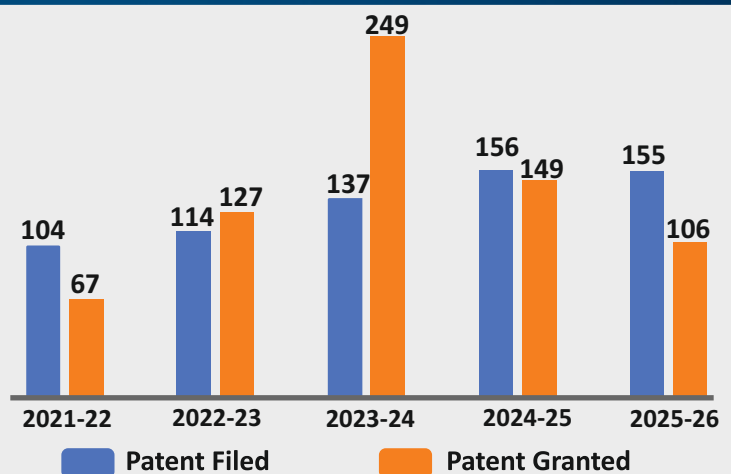
- Railway Research Cell
- Unilever Research Cell
- Space Technology Cell
- SAMTEL Center for Display Technology
- BSNL-IITK Telecom Center of Excellence
- Syndicate Bank Entrepreneurship Research & Training

Industry Partners





PLATINUM award (Intellectual Property Grants & successful commercialization), CII Industry-Academia Partnership 2025



No of Patents filed & granted over last 5 years



Ventilator



Haptic smartwatch



LiDAR-based intelligent sprayer



UAV



Nano-enhanced thermal material based icecream cart



Air sampling device

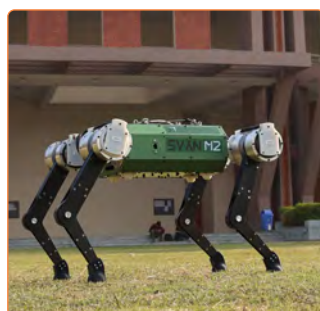


Shape-morphing quadcopter drone

Innovation Highlight



Soil nutrient sensing device



Svan M2: quadruped robot



School bag convertible to study table



Electrochemical sensing strip



Lateral flow immunoassay strip



System for detecting oral cancer

Campus Area	1055 acres
Academic Departments	21
Schools	3
Inter Disciplinary Programmes	3
Current Faculty Members	581~
Research Publications (total for last 5 years as per Scopus)	12,306
Total number of Patent Filed (till date)	1390
Total Number of Patent Granted (till date)	981
Technologies Transferred (till date)	158

Dean of Research & Development
Indian Institute of Technology Kanpur
Kanpur 208016
U. P. , India
Ph. No. +91-512-2597578
E-mail: dord@iitk.ac.in
www.iitk.ac.in/dord

Dean of Research & Development
Indian Institute of Technology Kanpur
Kanpur 208016
U. P. , India
Ph. No. +91-512-2597578
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www.iitk.ac.in/dord

