



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KOTTAYAM

(An Institute of National Importance under the Ministry of Education, Govt. of India)

Department of CSE - Cyber Security

Ph.D. ADMISSION OPEN

AUGUST 2026

Application Portal Opens

MAR 15

Written Test & Interview

MAY 01 - 09

Highlights:

- Scholarships from National Funding Agencies (Visvesvaraya Scholarship, India AI, Chanakya Fellowship)
- Access to reputed International and National Journals via Digital Libraries & ONOS platform
- Access to High Performance Computing Facilities
- Opportunity to collaborate with global researchers, industry professionals, and live projects

Major International Collaborations:

University of Klagenfurt, Austria	University of New Brunswick, Canada	Johannes Gutenberg University Mainz, Germany
National Chung Cheng University, Taiwan	Technical University of Munich, Germany	University of North Decotah, USA
University of Glasgow, United Kingdom	Offenburg University of Applied Sciences, Germany	University of Agder, Norway

Major National Collaborations:

गृह मंत्रालय MINISTRY OF HOME AFFAIRS	Indian Cyber Crime Coordination Centre	इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
MSME सूक्ष्म, लघु एवं मध्यम उद्यम MICRO, SMALL & MEDIUM ENTERPRISES	विज्ञान एवं प्रौद्योगिकी मंत्रालय MINISTRY OF SCIENCE AND TECHNOLOGY	Interdisciplinary Cyber-Physical Systems NM-ICPS

Active Research Areas:

- **Offensive Security & Adversarial Techniques:** Penetration Testing, Red Teaming, Exploit Development
- **Malware Analysis & Reverse Engineering:** Ransomware Analysis, Binary Analysis, Dynamic & Static Analysis
- **Network, Cloud & Systems Security:** Intrusion Detection Systems (IDS/IPS), Cloud & Container Security
- **Digital Forensics & Cyber Investigation:** Memory & Disk Forensics, Multimedia Forensics, Incident Response
- **AI for Cyber Security & Trustworthy AI:** ML-based Threat Detection, Explainable AI (XAI), Adversarial Machine Learning, LLM Security
- **Cryptography, Privacy & Trust:** Privacy-Enhancing Technologies, Secure Multi-Party Computation
- **Post-Quantum & Advanced Cryptography:** Post-Quantum Cryptography (PQC), Quantum Cryptography, Zero-Knowledge Proofs (ZKP)
- **Blockchain & Applications:** Smart Contract Security, Decentralized Identity
- **IoT, UAV & Cyber-Physical Systems Security:** UAV Security, Embedded Systems, Critical Infrastructure Security
- **FPGA & Reconfigurable Hardware Security:** Logic Locking & Anti-Tamper Architectures, Hardware Trojan Detection in FPGA Designs, Side-Channel Attack Resistant FPGA Architectures, ML on hardware security

Admission Categories:

Drishti CPS Foundation IIT Indore	C3iHub IIT Kanpur	Scholarship Holders (Full-Time) Funded by National agencies	Sponsored (Full-Time) Supported by industry/R&D organizations
		Self-Financing (Full-Time) May receive TA support	External Registrants Employed candidates pursuing Ph.D. in collaboration with their parent organization

Domain Specific Research Labs:

CyberLabs IIT Kottayam Advanced Cryptology and Quantum-Safe Communication Research Lab	SHERBOX Digital Forensics & Offensive Security Lab
SPHINX Secure reProgrammable Hardware Infrastructure ReXearch (SPHINX) Lab	TruSiteT Biometrics and IoT Sensor Networks Lab
R2O2 Redteam Operations and Offensive Security Tactics Lab	C.RE.A.T.E LAB Centre for Resilient Environments & Autonomous Technologies for Engineering Systems

AI for Responsible, Transparent, and Secure Computing Research Lab

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