Name of CoE/Centre: Centre for Advanced Research in Digital Forensics and Cyber Security (ARDC)

About the Centre: The Centre for Advanced Research in Digital Forensics and Cyber Security (ARDC) at CHRIST (Deemed to be University) serves as a dynamic and vibrant fulcrum that propels knowledge transfer, research and innovation in the realm of Cyber Security. Rooted in the vision of the University, the Centre is designed to fortify research and innovation excellence through securing IT infrastructure and nurture the cyber-physical systems as a sustainable environment.

The Centre develops an environment where faculty, researchers, and students can engage in interdisciplinary exploration of cyber security. Through various academic activities, workshops, and training initiatives, the Centre empowers learners at all levels to develop proficiency in digital forensics and cyber security. With initiatives such as hackathons, idea acceleration and collaborations, the Centre provides a platform for innovators to bring their ideas to fruition and positively impact the world.

Vision: To lead as frontiers in research and innovation excellence in cyber-physical systems.

Mission:
- To partner with global academic and industry leaders to promote cutting-edge research and propel innovative products development.
- To drive the advancement of digital forensics and cyber security through specialized skill development programs, executive programs, honours programs, training sessions, and workshops.
- To lead in ground-breaking research and innovation in cyber security and digital forensics.
- To deliver specialized consultancy services in digital forensics and cyber security.

Objectives:
- To evolve as a premier centre, in cyber-physical systems.
- To facilitate research, innovation in cyber security and Digital Forensics
- To build expertise & competency to operate on web 3.0 with security-interfaced applications for internet-connected devices.

Departments Associated: Department of Computer Science and Engineering

Facilities Available:

ARDC - Skill Development Centre

ARDC – Research & Control Centre

ARDC – Digital Forensic Equipment's

Research Areas: ARDC's Futuristic Focus Areas in Cyber Security

1. Artificial Intelligence (AI) and Machine Learning (ML) in Cybersecurity
2. Quantum Cryptography and Post-Quantum Cryptography
3. Zero Trust Security Models
4. Blockchain and Decentralized Security Solutions
5. Cybersecurity in Internet of Things (IoT) and Industrial Control Systems (ICS)
6. Cyber Threat Intelligence (CTI) and Cyber Deception
7. Human Factors and Behavioral Cybersecurity
8. Cyber-Physical Systems (CPS) Security
9. Digital Forensics and Incident Response
10. Security for Emerging Technologies (e.g., Metaverse, VR, AR)

Collaborations: Industry Collaboration with Incognito Forensics Foundation Pvt Ltd, Bangalore.

Programmes and Certification Courses Offered:

1. **Centre connected with B.Tech in Computer Science and Engineering(Cyber Security)**
2. **Honours in Cyber Security (20 credits, 5 courses)**
3. **Certification courses offered in collaboration with IFF Pvt Ltd are**

   a. Certificate Course in Ethical Hacking Expert
   b. Certificate Course in SOC Analyst
   c. Certificate Course in VAPT
   d. Certificate Course in Cyber Compliance Auditing
   e. Certificate Course in Cyber Forensics

Student Internships:

1. **Internship Secured through ARDC**

   - B.Tech Students – Internship in MagicBox Pvt Ltd, Bangalore.

Fazal Khan – 7BTCSE(IOT)

Role: Web 3.0 Developer

Megashyam Vivek– 7BTCSE B

Role: Information Security Analyst

2. **Academic / Research Internship offered by the Centre for Undergraduates and Post-Graduate Students:**

   a. Call-for: March 2025
   b. Internship Period(3 months minimum) : May (Offline, ARDC – Kenegeri Campus) & June – July (Remote)
   c. Skill set expected: Java / JavaScript / Python Programming skills & Linux Environment.

Major Achievements:

Cyber Security Tech Summit

Training on Cyber Tools for Industry & Researchers

Faculty Training in Digital Forensics Tools

Collaborating with Manipal University for Students Training Program

Faculty Development Program (Karnataka, Tamil Nadu & Kerala)

Discussion with Festo Team – System Testing

Discussions with C-DAC on IOT & DNS Security

Discussion with Prof. Peter Koshak, Bavarian University, for Academic Research Collaboration

Students Training on Cyber Forensics

Certification courses developed and offered in collaboration with Incognito Forensic Labs Pvt Ltd, Bangalore. (Sandbox Development)

Certification courses are
1. Certified Information Security Auditor
2. Certified Cyber Forensic Analyst
3. Certified SOC Analyst

Duration: 80 hours of sessions cum training per certification course(*Examination & Certification included)

Research Publications
2023: 06 Journals(Scopus & WoS)
2023: 04 Conferences
2024: 04 Journals(Scopus)
2024: 08 Conferences

Start of B.Tech in CSE(Cyber Security) program in Academic Year 2025 -26