



***DA-IICT CEP (Continuing Education Program)***  
***Training and Capacity Building Program on***  
***Cyber Crime, Ethical Hacking, Cyber Security, Forensics and***  
***Cyber Laws***

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Information technology has enhanced the communication & has facilitated the growth of trade and commerce. The technology has fastened the e-commerce, e-Governance, net banking, mobile banking, online share trading and other commercial transactions. Cyber Criminals carry out online frauds and other criminal activities such as online defamation, data theft, obscenity, online pornography, phishing and violence etc. The biggest advantage for the offenders committing online crimes is that they can remain anonymous. The regulatory sphere is still in a nascent stage and continuously evolving every passing day. This program is organized by the DA-IICT and CLS-Cybererra Legal Services aim to extend knowledge of cyber security, forensics & cyber laws amongst upcoming lawyers, IT, Management and Commerce Students.

***About DAIICT***

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Dhirubhai Ambani Institute of Information Technology (DA-IICT), Gandhinagar, is a statutory University under the Act of Gujarat State Legislature and is recognized by the University Grants Commission under Section 2(f) of the UGC Act. The institute offers two undergraduate programs BTech in ICT and BTech Honours in ICT with Computational Science as minor, and five post-graduate programs including the Doctoral program. The Institute is visualized as a research-driven institute equipped with top talent pool of students, highly qualified faculty and state-of-the-art infrastructure.

## ***About CLS (Cyberra Legal Services)***

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Founded in Ahmedabad in 2003, CLS is a premier organization in cyber security/cyber law advisory, consultancy, training and education. It is the first of its kind of service venture in Gujarat with Key Personnel who are Technology Graduates, Law graduates, Ethical Hackers having specialization in cyber laws. CLS serves its various clients in five cities namely Ahmedabad, Gandhinagar, Baroda, Rajkot and Delhi. CLS, in association with Manan Thakker & Associates (Advocates & Cyber Law Consultants), have filed highest number of cyber fraud compensation matters in the state of Gujarat till May, 2016. CLS's key person is appointed as a member in Cyber Security Consultant Selection Committee, GIL, Govt. of Gujarat and Cyber Security Committee of Raksha Shakti University. CLS also holds membership in GESIA and CII (IWN).

## ***Overall Goals of this program***

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- To facilitate understand & critical understanding about Cybercrimes, Ethical Hacking, cyber security, forensics and cyber laws
- Exploration of the legal and policy developments in various countries for cyber space
- To provide in-depth knowledge of Information Technology Act, 2000 including Information Technology Amendment Act, 2008
- Understanding e-Governance, Electronic Contracts, e-Banking & Secure electronic records
- To share knowledge of the regulation of cyber space at national and international level
- To train and prepare candidate to consider Cyber security, forensics and cyber laws as a career option.

## ***Eligibility Criteria***

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The said program is open for professionals and practitioners of the areas of cyber security, cyber law, cyber forensics, system administrator, computer networking and allied fields as well students completed graduation or pursuing BE/BTech/BCA/BSc/BCom/BA/ME/MTech/MCA/M.Sc/MCom/MA/LLB/LLM/CS/ICWA/CA/MBA/BBA/PGDCA/PGDBM.

## ***Desirable***

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**This course is meant for everyone who uses computers, mobiles and Internet.**  
**Prior knowledge of either law or technology is NOT mandatory.**

## ***Benefits of completing this program***

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Participants will get an edge over your peers for employment opportunity in

- ✓ Software, IT, Security and Consulting Companies
- ✓ BPO Companies
- ✓ LPO/KPO Companies
- ✓ Internet Service Providers
- ✓ Mobile Service Providers
- ✓ Corporate Business Houses
- ✓ Banks and Financial institutions
- ✓ Data Centers
- ✓ Certifying Authorities for Digital Signature Certificates
- ✓ Cyber Crime Cells
- ✓ Chartered Accountant Firms
- ✓ Law Firms
- ✓ Bio-Tech Companies

- ✓ Pharmaceutical companies
- ✓ Clinical Research Organizations
- ✓ Life Science Companies and Hospitals
- ✓ Colleges

## ***Course Contents***

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### **A. Cyber Crimes**

- Data diddling
- Data leakage
- Eavesdropping
- E-mail forgery
- E-mail threats
- Internet misinformation
- Internet terrorism
- Password cracking
- Round downs
- Salami Techniques
- Scavenging/Corporate Espionage
- Social Engineering
- Software Piracy
- Spamming
- Super zapping
- Piggybacking
- Trap door
- Trojan Horse
- Virus
- Worm

- Impersonation
- Time bomb
- Logic bomb
- Dos Attacks

## **B. Ethical Hacking & Cyber Security**

- Foundation lectures on challenges & threats of Cyber Security in Network, System and Web
- Email Hacking & its security
- Social Media Hacking & its Security
- Web Hacking & its Security
- Mobile Hacking & its Security
- Fake Calls, fake SMS & its Security
- Wi-Fi Network Hacking & its Security
- Windows Hacking & its Security
- DDOS Attack & its Security
- Software Hacking & Reverse Engineering
- Cross site scripting & its Security
- Basics of cryptography, Encryption & Decryption
- Security breaches case studies
- Categorization of Digital Security
- Multimedia Security (Steganography)
- Malware Concepts (Virus, Worms, Trojan etc.)
- Firewall & IDS/IPS Concepts
- Basics of Vulnerability Assessment & Penetration Testing
- Spying & Cyber Reccy
- Email forgery and E-mail Tracing

### **C. Cyber Laws**

- Introduction to Information technology & Cyber Law
- Basics of E-commerce and Computer Fraud Techniques
- Cyber Security Fundamentals, Techniques and Core Principles
- Cyber Space, Technology & Issues
- Regulating Cyber Space: International
- Regulating Cyber Space: National
- Basics of ISO 27001& ISMS
- E-contract & Electronic Data Interchange
- E-signature and E-governance legality under I.T.Act, 2000
- Cyber Contraventions, Compensation & Crimes under I.T.Act, 2000
- ISPs and Websites Legal Liability under I.T.Act, 2000
- Corporate Legal Liability under I.T.Act, 2000
- Adjudication Process For Recovery of Losses under I.T.Act, 2000
- IPR violations on Internet
- Case Studies and Case Laws

### **D. Cyber Forensics**

- Forensic Imaging & Storage Media Duplication (FTK Imager)
- Windows Forensics Artifacts (Nirsoft/SysInternals)
- Various Case Studies
- Data Recovery (TestDisk/PhotoRec)
- Forensic Investigation of Image (Autopsy)
- Malware Analysis (Static/Dynamic)
- DEFT OS
- Social Media Forensics (FB/Twitter/LinkedIn etc.)

- Multimedia Forensics (JPEGsnoop/ImageHeader Analysis)
- File Header Analysis, Office Files Analysis (FOCA), File Signature
- Smart Phone Forensics (AFLogical, ViaForensics, MobileEdit)
- Timeline Analysis (Event Log Analysis)
- Registry, NTUSER.DAT, USERCLASS.DAT Analysis (Regedit, FRAT, Scripts)
- RAM Forensics (Concepts & Artifacts Analysis)

### ***Study Material***

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Specially compiled exclusive study materials will be provided along with links of open source tools.

### ***Duration of the program***

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Week end program (only on Sundays - 6 hours) for 1.5 months @ DA-IICT campus in Gandhinagar, Gujarat, **starting from Sunday, 12 February, 2017.**

### ***Evaluation***

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The candidates will be evaluated for maximum of 100 marks for which one MCQ (Multiple Choice Questions) Open Book Exam will be conducted on the last Sunday of program. The candidate needs to score at least 40% marks to complete the course and get the certificate.

### ***Fee Structure***

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- Tuition Fees: Rs. 11,000/-
  - Application Charges: Rs. 150/-
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## ***How to Apply***

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The application form can be downloaded from [www.cyberralegalservices.com](http://www.cyberralegalservices.com) or [www.daiict.ac.in/daiict/academics/cep.html](http://www.daiict.ac.in/daiict/academics/cep.html)

You may also write to Program Coordinator on [cep\\_cybersecurity@daiict.ac.in](mailto:cep_cybersecurity@daiict.ac.in)

Alternatively, candidate should write “**Certificate Program on Cyber Crime, Ethical Hacking, Cyber Security, and Forensics & Cyber Laws**” on the envelope containing Application and send it to below address.

## ***Contact Us***

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Ms. C M Thakker (Advocate & Cyber Law Advisor)

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