**Course Content**

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| Course Code: IT4122 | Course Title: Program Elective II I - Cyber Laws and Forensics (Theory) | |
| L-T-P: 3-0-0 | Credits: 3 | Contact Hrs: 3 |
| ISE & MSE Marks: 50 | ESE Marks: 50 | Total Marks: 100 |
| Teaching Hrs: 3 |  | Exam Duration: 3 hrs |

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| **Content** | **Hrs** |
| **Unit - 1** |  |
| **Chapter No. 1 - Cyber Security Fundamentals**  Introduction, cybercrime and Information Security, Classification of Cybercrimes, Cybercrime: The legal Perspective, Cybercrime: An Indian Perspective | 5.00 hrs |
| **Chapter No. 2 - Cyber offences**  Cyber-attacks, Social engineering, Cyber stalking, Attack Vector, Cybercrime and cloud computing, Cybercrimes on mobile and wireless devices, Attacks on mobile/cell phones, Authentication service security, Organizational security policies and measures in mobile computing. | 6.00 hrs |
| **Chapter No. 3 - Tools and Methods used in Cybercrime**  Introduction, Proxy Servers and Anonymizers, Phishing, Password Cracking, Key loggers and Spywares, Virus and Worms, Phishing and Identity Theft, Trojan Horses and Backdoors, Steganography, DoS and DDoS Attacks, SQL Injection, Buffer overflows | 7.00 hrs |
| **Chapter No. 4 - The Indian IT Act**  Cybercrime and Legal Landscape around the world, Cyber laws, Challenges, Digital Signatures and Indian IT Act, Amendments to the Indian IT Act, Cybercrime and punishment | 5.00 hrs |
| **Chapter No. 5 - The Cyber Crimes (S - 65 to S - 74)**  Tampering with Computer Source Documents(S-65), Hacking with Computer System(S-66),Publishing of Information Which is Obscene in Electronic Form(s-67), Offences : Breach of Confidentiality & Privacy (S-72),Offences : Related to Digital Signature Certificate (S-73 & S-74) | 7.00 hrs |
| **Chapter No. 6 - E - banking and Legal Issues**  Regulating e-transactions, Role of RBI and legal issues, International transactions of e-cash, Credit card and internet, Laws relating to internet credit cards | 6.00 hrs |

**Text Books (List of books as mentioned in the approved syllabus)**

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| 1. | Nina Godhole,Sunit Belapure, Cyber Security , Wiley India |
| 2. | Farooq Ahmad, Cyber Law in India, P ioneer Books |

**References**

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| 1. | Suresh T Vishwanathan, The Indian Cyber Law, Bharat Law house New Delhi |
| 2. | James Graham, Ryan Olson, Cyber Security Essentials, ISBN: 978 - 1 - 4398 - 5123 - 4, Rick Howard CRC Press, Taylor & Francis Group,, 2011 |