

link usernames and passwords, Monitor usage of database links, Secure replication mechanisms, Map and secure all data sources and sinks, Trojans : The four types of database Trojans, Baseline calls to stored procedures and take action on Divergence, Control creation of and changes to procedures and triggers, Watch for changes to run-as privileges, Closely monitor developer activity on production environments, Monitor creation of traces and event monitors, Monitor and audit job creation and scheduling, Be wary of SQL attachments in emails.
(12 Hours)
Textbooks : 1. Rebecca Gurley Base “Intrusion Detection” MacMillan Technology Series (MTP Series) 2. Rafeeq Rehman “Intrusion Detection with SNORT, Apache, MySQL, PHP and ACID”, Prentice Hall PTR, 2003. 3. RonBen Natan, Implementing Database Security and Auditing, Elsevier, Indian reprint,.
CSCS 506 : CYBER LAWS
Course Objectives : 1. To make the student aware about the legal aspects of our actions in cyberspace. 2. To make the student aware about the punishments for cyber offences
Course Outcomes : 1. Students get the required frame of mind to work in an IT powered workplace and all walks of life. 2. Student gets the knowledge of the need to protect the data privacy of the clients
UNIT I
The Information Technology Act (IT Act), 2000 : Preliminary, Digital Signature And Electronic Signature, Electronic Governance, Attribution, Acknowledgement And Despatch Of Electronic Records, Secure Electronic Records And Secure Electronic Signature, Regulation Of Certifying Authorities, Electronic Signature Certificates, Duties Of Subscribers, Penalties, Compensation And Adjudication, The Appellate Tribunal, Offences, Intermediaries Not To Be Liable In Certain Cases, Examiner Of Electronic Evidence, Miscellaneous, Amendments As Introduced By The IT Amendment Act, 2008, Amendments to Indian Penal Code, Indian Evidence Act, 1872, The Bankers' Books Evidence Act, 1891, and the Reserve Bank of India Act, 1934 due IT Act 2000
(12 Hours)
UNIT II

Personal Data Protection Bill (PDPB), 2019: Preliminary, Obligations Of Data Fiduciary, Grounds For Processing Of Personal Data Without Consent, Personal Data And Sensitive Personal Data Of Children, Rights Of Data Principal, Transparency And Accountability Measures, Restriction On Transfer Of Personal Data Outside India, Exemptions, Data Protection Authority Of India, Penalties And Compensation, Appellate Tribunal, Finance, Accounts And Audit, Offences, Miscellaneous
(12 Hours)
UNIT III
General Data Protection Regulation (GDPR), 2018 of European Union : General provisions, Principles, Rights of the data subject, Controller and processor, Transfers of personal data to third countries or international organisations, Independent supervisory authorities, Cooperation and consistency, Remedies, liability and penalties, Provisions relating to specific processing situations, Delegated acts and implementing acts, Final provisions.
(12 Hours)
Textbooks : 1. “The Information Technology Act”, 2000 2. “The Personal Data Protection Bill”, 2019 3. “General Data Protection Regulation(GDPR)”- Official Journal of the European Union, 2016, https://gdpr-info.eu/ 4. “The Information Technology ACT”, 2008 5. “A Free and Fair Digital Economy, Protecting Privacy, Empowering Indians”- Expert Committee Report under the Chairmanship of Justice B.N. Srikrishna, 2018 6. “Computer Forensics and Cyber Crime An Introduction”- Marjie T. Britz, Pearson, Third Edition, 2013
CSCS 507 : APPLICATION SECURITY
Course Objectives : 1. To make the student aware of the need to create secured applications 2. To make the student aware of the need to enforce security concerns while developing and testing applications
Course Outcomes : 1. Student gets the security architectures needed while developing the softwares 2. Student gets the knowledge of different attack vectors which are to be taken care of while designing applications
UNIT I