

University of Technology
Computer Engineering Department
Academic Year 2023-2024
3rd Year- Second semester- IE Branch



	Information Security	2 Hr/Week	Units
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Contents of syllabus	Hours
History, What is Information Security?, Key Information Security Concepts, Critical Characteristics of Information, NSTISSC (CNSS) Security Model	2
Components of an Information System, Securing the Components, Balancing Information Security and Access, The Systems Development Life Cycle (SDLC), The Security Systems Development Life Cycle	4
The Need for Security, Business Needs, Threats, Attacks	2
Legal, Ethical and Professional Issues	2
Risk Management: Identifying and Assessing Risk, Assessing and Controlling Risk	4
Blueprint for Security, Information Security Policy, Standards and Practices	2
ISO 17799/BS 7799, NIST Models, VISA International Security Model, Design of Security Architecture, Planning for Continuity	4
Security Technology, Scanning and Analysis Tools	2
Cryptography, Attacks on Cryptosystems, Access Control Devices, Physical Security, Security and Personnel	4
Physical Security, Security and Personnel	4

References:

- Michael E. Whitman and Herbert J. Mattord, “Principles of Information Security”, 4th edition, Cengage Learning, 2011.
- Jason Andress, “The Basics of Information Security: Understanding the Fundamentals of InfoSec in Theory and Practice”, Elsevier Inc., 2011.