IT634 – Information Systems Security (3-0-2: 4)

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Objectives: Information Systems Security is concerned with the usage and implementation aspects of information, computer and network security. Students will understand the spectrum of security, assurance and risk management of information systems. The course aims to cover system and network system protection, vulnerability assessment and risk management. Students will have hands-on experiments on some interesting problems in information systems security. After completion of this course, students will be able to display in-depth understanding in computer security, network security, and managing security in real-world problems.

Course Contents:
- Information Security Fundamentals
- Cryptographic primitives (relevant topics)
- Operating System security
- Buffer overflow, Format string vulnerability
- Essential network security
- Web security
- Mobile communication security
- Access controls, policies, models
- Risk management, ethical issues

Books:

Grading Policy (tentative):
Class participation/quiz/presentation – 20%
Mid-semester exam – 30%
Project/Lab evaluation – 20%
End Semester Exam – 30%.