

Information Compliance, Assurance & Audit

As Information and Information Technology become an integral part of all businesses and often the key drivers of business success and efficiency, a major challenge for managers is dealing with the security of information assets. Thus an understanding of the related issues including information assurance, compliance and audit is becoming a must for managers irrespective of their basic functional responsibility be it marketing, operations, finance and so on. Further, compliance requirements are increasingly being mandated by statutory authorities. This course is aimed at providing an in-depth overview of the field including fundamental technical aspects of information security and assurance.

Class Schedule

Session 1	Introduction – basic definitions, course requirements, etc.
Session 2	Information Security – a layered approach and key concepts
Session 3	Cryptography - 1
Session 4	Cryptography - 2
Session 5	Network Security
Session 6	Application Security
Session 7	Physical Security
Session 8	Business Continuity Planning/Disaster Recovery
Session 9	Access Control
Session 10	Guest Lecture – Compliance requirements for a medical manufacturer
Session 11	Mid-Term Exam – Information Security
Session 12	Legal & Ethical Issues in Info. Assurance
Session 13	Risk Analysis and Management
Session 14	Role of Compliance and Audit
Session 15	Compliance Frameworks – SOX, CoBIT
Session 16	Compliance Frameworks – HIPPA and RBI Guidelines
Session 17	IT Auditing – Analysis of a sample audit
Session 18	Planning a security architecture
Session 19	Presentations – Assurance framework for a chosen organization
Session 20	Final Exam

Primary Text:

1. **Principles of Information Security; Michael E. Whitman & Herbert J. Mattord; Publisher: Thompson Course Technology, Boston, MA**

Suggested Reading:

- 1 Secrets & Lies – Bruce Schneier, John Wiley & Sons, New York, NY;
2. Articles and Papers provided during the course.

Course Reports Deliverables & Grading:

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| 1. Mid-Term Exam | 25% of Total |
| 2. Assurance Plan – Report | 25% of Total |
| 3. Assurance Plan - Presentation | 10% of Total |
| 4. Final Exam | 40% Of Total |

Course Etiquette:

Details will be discussed in first session.

1. Academic Integrity: A **no-tolerance policy** will be implemented:
 - a. All material taken from the internet and other sources must be referenced diligently in your reports, etc. A failure to do so may result in a downgrade of up to one letter grade.
 - b. Any cheating or collaboration during the exams may result in a downgrade of up to two letter grades.
2. A bonus of up to 10% may be given for class participation based on the instructor's discretion. Conversely, a negative score of up to 5% may be assessed for disruptive behavior.