

ARMY INSTITUTE OF TECHNOLOGY PUNE
Third Year of Computer Engineering (2019 Course)
310254: Laboratory Practice II
LIST OF ASSIGNMENTS
2024-25 SEM II

Sr No	E2: Information Security	CO No	BT No
	ASSIGNMENT		
1	Implementation of AND/X OR of each character string with 127.	4	2
2	Implementation of Transposition technique. (E.g. Apply the method for CEASER CIPHER.)	4	2
3	Implementation of Diffie-Hellman key exchange. (Obtain the Encryption for given Text Paragraph)	4	2,3
4	Implementation of RSA algorithm with suitable example. (Comparatively see the results with SHA-Algorithm)	4	2,3
5	Implementation of MD5 algorithm with application. (Explain comparison with MD6 algorithm)	4	3
6	CASE 1: Setup with the respective type of attack, if any in the request. It should detect both SQL injection attack as well as the Cross-Site Scripting attacks	5,6	4
7	CASE 2: Web spoofing:-The task is to demonstrate insecure and secured website and Spoofing. Also study the recent attacks on banking websites.	5,6	4
8	CASE 3: Complete the study of DPDP-DATA PRIVACY DRAFT 2023. https://prsindia.org/files/bills_acts/bills_parliament/2023/Digital_Personal_Data_Protection_Act,_2023.pdf [Highlight the points With respective to Information Security]	6	4
9	CASE 4: Risk Analysis Of IT Infrastructure. Study of IT equipment's and its security. In case incident arises; how to deal with the situation. Risk Transference methodologies. Reference Book: Nina Godbole, Information Systems Security.	5	4
10	GAP IN CURRICULUM: Students required learning the online tools for the Information Security field. http://www.infoplease.com	3	3

NINA GODBOLE

John Wiley & Sons, 2008 - [Computer networks](#) -

Market_Desc: · Undergraduate and graduate level students of different universities and examination syllabus for international certifications in security domain· Teachers of security topics

Special Features: · Written by an experienced industry professional working in the domain, a professional with extensive experience in teaching at various levels (student seminars, industry workshops) as well as research.· A comprehensive treatment and truly a treatise on the subject of Information Security· Coverage of SOX and SAS 70 aspects for Asset Management in the context of information systems security.· Covers SOX and SAS 70 aspects for Asset Management in the context of Information Systems Security. · Detailed explanation of topics Privacy and Biometric Controls .· IT Risk Analysis covered.· Review questions and reference material pointers after each chapter.· Ample figures to illustrate key points - over 250 figures!· All this is in a single book that should prove as a valuable reference on the topic to students and professionals. Useful for candidates appearing for the CISA certification exam. Maps well with the CBOK for CSTE and CSQA Certifications.

About The Book: Information and communication systems can be exposed to intrusion and risks, within the overall architecture and design of these systems. These areas of risks can span the entire gamut of information systems including databases, networks, applications, internet-based communication, web services, mobile technologies and people issues associated with all of them. It is vital for businesses to be fully aware of security risks associated with their systems as well as the regulatory body pressures; and develop and implement an effective strategy to handle those risks. This book covers all of the aforementioned issues in depth. It covers all significant aspects of security, as it deals with ICT, and provides practicing ICT security professionals explanations to various aspects of information systems, their corresponding security risks and how to embark on strategic approaches to reduce and, preferably, eliminate those risks. Written by an experienced industry professional working in the domain, with extensive experience in teaching at various levels as well as research, this book is truly a treatise on the subject of Information Security. Covers SOX and SAS 70 aspects for Asset Management in the context of Information Systems Security. IT Risk Analysis covered. Detailed explanation of topics Privacy and Biometric Controls . Review questions and reference material pointers after each chapter.