University of Management and Technology

School of Commerce and Accountancy
Quaid e Azam Campus

Course Outline

Course Title: Information System Security Management (CS432)	
Program	ADP(ITM)
Credits Hours	3
Duration	15 Weeks / 30 Sessions
Prerequisites	
Resource Person	
Contact/Email	

Course Description:

An Information Security Management System (ISMS) is a systematic approach to managing sensitive company information so that it remains secure. It encompasses people, processes and IT systems. Having data and information protected is vital for company and this is where an ISO 27001:2013 ISMS comes in

Expected Outcomes:

By the end of this semester, we would like you to: The students possess through knowledge of the fundamental theories, models practices of information security management for both large and small organization. -The students possess insight and understanding of ethical and legal aspect information security management and privacy management -The students possesses good understanding of the risk management processes -The students possesses good understanding of security planning and incident management process -The students possess insight and good understand of security awareness and security escalations issues in information security management work -The students possess insight and good understand of both macro and micro economics issues in information security management. -The students possess insight of the technological innovation process in IT security and its effect on security management. -The students possess basic knowledge of the standards in information security management.

Teaching-Learning Methodology:

*Note: **Select methodologies as per nature of the course.***

- Lectures
- Recommended Text/Supplementary Texts
- Handouts
- Case Studies
- Skill Development Exercises
- Project Report/Term Paper
- Any other Teaching Tool………………………………………

Recommended Text Book:

1. PRINCIPLE OF INFORMATION SECURITY   5th Edition

By: Michael E. Whitman and Herbert J.Mattord

Assessment & Evaluation:

*Note: **Please Specify the Weightage you want to assign to assignments and Final Project/ Project presentation/Presentation.***

Quizzes	**15%**
Assignments	
Final Project	20%
Project Presentation/Presentations	
Mid Term	**25%**
End Term Exam	**40%**
Total:	**100**

SEHEDULE OF ACTIVITIES

Note: Please fill the tasks/activities column according to your course plan

Week	Contents/Topics to be Taught	Tasks/Activities
1	**Introduction to information security management system**	Course Outline Distribution
2	**Introduction to System Thinking and Scientific Management**	
3	Basic Principle of Information Security	Quiz 1
4	Cultural, Organization and Behavior theories used information security management organization	
5	Legal and Ethical Aspects of Information and Privacy Management	Assignment 1
6	Overview of current information security management standards and practices.	
7	Basic Micro and Macro Theory of Information Security	Assignment 2
8	**Introduction to Risk, Threat and vulnerability Modeling** Mid Term Exam	Quiz 2
9	**Authentication Model**	
10	Access Control List	
11	**Information Security Management and Security Awareness Education and training**	Quiz 3
12	**Security Kernels**	
13	**Cryptography**	Quiz 4
14	**Overview of Security Planning and Incident Management**	
15	**Secure Communication Processor (Scamp)**	Assignment 4 Presentations (if any)
16	**END TERM EXAMINATION**	