



Spring Term

Basic Information:

Title:	Information System Audit & Control	Code:	IT 364
Program:	BBIT (IT Major)	Credit Hours:	Three (03)
Sessions:	30 Classes + Mid Term + Final Term	Pre-Requisite:	IT 361

Course Description:

This course is a very important course as it gives a detailed insight into the evolution of the security need of the information system that is widely spread. Nothing is protected these days as everything is managed by technology. So there is an ultimate need for the realization of IS security demands and controls and more over how to find out that controls are sufficient or not.

Learning Outcomes:

After the completion of this course, it is expected that students who will involve themselves in the knowledge base working of the course will be capable to

1. Security need for information system
2. Security Standards
3. Security Policy
4. Availability of controls
5. Investigation and Audit procedures for IS

Teaching Learning Methodology:

The formal teaching component of this course consists of active student participation in and contribution to all forms of teaching and learning i.e. lectures, discussions, research assignments and projects. Lectures will be twice a week of 90 min each. Lecture will include frequent discussion on case studies.

Group Configurations:

Students will be asked to form groups no more than 4 members in a group. Every group will target an enterprise in industry for survey of security needs and controls. Student will submit written report and defend his document in final presentation at the end of semester.

Weekly Term Plan

Wk	Lecture Topic	Activity
01	Introduction and Importance of the course	
02	Information System and threats	
03	Threats, Security and Controls	Quiz 1
04	Information Systems Audit and Control Concepts	
05	Application security in Software Requirements	Assignment 1
06	Auditing and Control Objectives	
07	IT Auditing	Assignment 2
08	<i>Mid Term Examination</i>	
09	Auditing and Complex Business Information Systems	
10	Security demands of Business Intelligence Applications	Quiz 2
11	Complex Information Systems Auditing Standards	
12	ERP and Information Integration Issues	TPA
13	Technology, Auditing and Cyber-Commerce	
14	IT Auditing and Security of Information Systems	
15	<i>Revision</i>	
16	<i>Final Term Examination</i>	



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Topics in Detail

No	Title
01	Introduction and Importance of the course
02	Information System and threats
03	Information Systems Audit and Control Concepts
04	Application security in Software Requirements
05	Information Systems Audit and Control Concepts
06	Auditing
07	Threats , Security and Controls
08	Control Objectives
09	Auditing and Complex Business Information Systems
10	Security demands of Business Intelligence Applications
11	Information Integration Issues
12	ERP Security
13	Technology, Auditing and Cyber-Commerce
14	Controls for E-commerce
15	Auditing approach
16	Findings and legal proceedings
17	Case study on famous threats
18	Case study on e-crimes

Text & Recommended Readings

1. Applying UML and Patterns
(Third Edition By Craig Larman)
2. Object oriented Systems Analysis and Design Using UML
(Second Edition) Simon Bennet, Steve McRobb
2002 – McGraw-Hill

Term Research Assignment Specification

1. Rational Rose
2. Microsoft Word for Documentation

Headings	Arial 11pt Bold
Normal Text	Times New Roman 10pt
Header Footer	Times New Roman 8pt
Paragraph	Single Line Spacing
	First Line Indent 1.0 cm
Page Margins	2 cm from each side



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Grading Policy:

Final Grade for this course will be the cumulated result of the following term work with relevant participation according to the quoted percentage.

Sessional	25%		Mid Term	35%		Final Term	40%
Assignments	10 %		Mid Term Exam	25%		Final Exam	30%
Quizzes	10%		Major Report/Work	10%		Case Study/ Project/ Term Paper	10%
Presentations	05%						

Remember subdivision of Mid Term and Final Term Examination should be done only in extreme cases of very essential and major Grading Instruments.

Dishonest Practices & Plagiarism

Any student found responsible for dishonest practice/cheating (e.g. copying the work of others, use of unauthorized material in Grading Instruments) in relation to any piece of Grading Instrument will face penalties like deduction of marks, grade 'F' in the course, or in extreme cases, suspension and rustication from IBIT.

For details consult Plagiarism Policy of PU at <http://pu.edu.pk/dpcc/downloads/Plagiarism-Policy.pdf>

Grading System:

Letter Grade	Grade Point	Num Equivalence
A	4.00	85 – 100 %
A-	3.70	80 – 84 %
B+	3.30	75 – 79%
B	3.00	70 – 74 %
B-	2.70	65 – 69 %
C+	2.30	61 – 64 %
C	2.00	58 – 60 %
C-	1.70	55 – 57 %
D	1.00	50 – 54 %
F	0.00	Below 50 %
I	Incomplete	*
W	Withdraw	*

Norms to Course:

- ✓ Submission Date and Time for the term instruments is always **Un-Extendable**
- ✓ 5 Absentees in class will result in forced withdrawal. **(PU Policy)**
- ✓ Re-sit in Mid and Final Term will cause you a loss of 2 and 3 grade marks respectively. **(PU Policy)**
- ✓ This is your responsibility to keep track of your position in class evaluation units.
- ✓ After the submission date, NO excuse will be entertained.
- ✓ **Keep a copy of all submitted Grading Instruments.**
- ✓ Assignment is acceptable only in its Entirety.
- ✓ No make up for any assignment and quiz.
- ✓ Copied & Shared work will score Zero.
- ✓ Assignments are Individual.

Good Luck
 For the Spring Term