

Subject Description Form

Subject Code	COMP 5135
Subject Title	Information Systems Audit and Control
Credit Value	3
Level	5
Pre-requisite/Exclusion	Nil
Objectives	<p>This subject allows students to acquire, in pedagogic terms, the basic core knowledge of the field of Information Systems Audit and Control, the audit process and the protection of information, consistent with the ISACA Model Curriculum (Note 1), and to develop, in pragmatic terms, the necessary background and skills needed to enter the Information Systems Audit and Control profession (Note 2). This course aims to:</p> <ol style="list-style-type: none"> 1. introduce students to the fundamental concepts, procedures and standards of IS audit and controls; 2. describe the qualifications needed to enter and become successful in this field; 3. develop students' practical skills in handling various types of IS audits and examining the IS controls; and 4. prepare students to develop generic skills in communication, individual and team works, case analysis and reporting, and creative problem solving.
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a) understand the IS audit key elements and the standards of performance required by the profession; b) understand the complexities of IS controls; c) develop good practical skills in developing and testing IS controls; d) assess the impacts of IS audit and control on the operation of organizations; e) perform the audit process including the planning of an audit, the application of IS audit tools and techniques and evaluation methods used in performing IS audits, the differentiation of the specialty areas within the IS audit field, and the making of an informed choice as to which emphasis is best for them, and documenting work performed and collecting evidence to support work performed; f) exercise good communication and interpersonal skills in handling IS audit projects and presenting the audit results; g) demonstrate problem solving skills by applying risk management approaches in the audit life cycle; and h) attempt the CISA examination (Note 3).

Subject Synopsis/ Indicative Syllabus	<ul style="list-style-type: none"> • The IS Audit process: IS Audit Concepts of auditing and internal control Audit planning Audit evidence • IT governance: IT governance framework IT strategies vs. corporate strategies Risk Management methodologies and tools Control frameworks: CobiT, COSO, Basel II, ISO/IEC27002 Auditing IT governance structure and implementation • Protection of information assets: Information security management Logical IT security and applied IT security Physical and environmental security Auditing information security management framework • Business continuity and disaster recovery: Concepts related to business continuity plan and disaster recovery The planning process and components 																																																		
Teaching/Learning Methodology	39 hours of class activities including - lecture, tutorial, lab, workshop seminar where applicable																																																		
Assessment Methods in Alignment with Intended Learning Outcomes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 30%;">Specific Assessment Methods/Tasks</th> <th rowspan="2" style="width: 15%;">% weighting</th> <th colspan="8">Intended subject learning outcomes to be assessed</th> </tr> <tr> <th style="width: 5%;">a</th> <th style="width: 5%;">b</th> <th style="width: 5%;">c</th> <th style="width: 5%;">d</th> <th style="width: 5%;">e</th> <th style="width: 5%;">f</th> <th style="width: 5%;">g</th> <th style="width: 5%;">h</th> </tr> </thead> <tbody> <tr> <td>Assignments, Tests & Projects</td> <td style="text-align: center;">55</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> </tr> <tr> <td>Final Examination</td> <td style="text-align: center;">45</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td></td> <td></td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>Total</td> <td style="text-align: center;">100</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Specific Assessment Methods/Tasks	% weighting	Intended subject learning outcomes to be assessed								a	b	c	d	e	f	g	h	Assignments, Tests & Projects	55	✓	✓	✓	✓	✓	✓	✓	✓	Final Examination	45	✓	✓	✓	✓			✓		Total	100								
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Reading list and references	<p><i>Reference Books</i></p> <ol style="list-style-type: none"> (1). CISA Review Manual, ISACA publications (2). Hunton, J.E., Bryant, S.M., and Bagranoff, N.A., Core Concepts of Information Technology Auditing, John Wiley & Sons, 2004 (3). Champlain, J.J., Auditing Information Systems, John Wiley, 2003 <p><i>Journals</i></p> <p>ISACA publications including IS Audit & Control Journal</p>																																																		