



## UNIT OUTLINE

### Corporate Information Security

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<b>UNIT CODE AND TITLE</b>	BC603 Corporate Information Security
<b>AUTHOR</b>	John Van Beveren
<b>SCHOOL</b>	School of Business
<b>PREREQUISITE</b>	Nil
<b>COREQUISITE</b>	Nil
<b>DURATION</b>	One teaching period
<b>CREDIT POINTS</b>	15

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#### OBJECTIVES

On completion of this unit students should:

##### Knowledge

- Understand the concepts and issues related to securing Internet and e-Commerce systems
- Understand the importance of evaluating risks associated with e-Commerce development
- Understand the importance of integrating risk management into strategic plans and implementations
- Understand the threats and vulnerabilities of Internet and eCommerce systems

##### Skills

- Assess and formulate the electronic strategies used by businesses, government agencies, and consumers to exchange information and initiate transactions
- Assess the legal environment surrounding e-Commerce initiatives and formulate legally sound e-Commerce strategies
- Identify and assess the risks of insecure e-Commerce systems and formulate security-conscious solutions
- Compare the various third party assurance services available and make an informed choice of such provider.
- Assess the adequacy of data protection of e-Commerce systems

### Values/Attitudes

- Value the importance of adequate data protection in e-Commerce systems
- Value the need to identify security, privacy and legal risks associated with Electronic Commerce strategies

### CONTENT

- Adversaries to the security of the Internet and eCommerce systems
- Risks of Insecure Systems
- Risk Management
- Internet Standards, Protocols and Languages
- Cryptography and Authentication
- Firewalls
- Electronic Commerce Payment Mechanisms
- Intelligent Agents

### LEARNING TASKS AND ASSESSMENT

Groups of students will experience Internet security technologies through weekly laboratory exercises. They will accumulate the information gathered through research via syndicate discussion meetings and present their findings in a laboratory workbook. Individually students will analyse and evaluate an Internet security system. Their impressions will be accumulated and presented with theory and issues discussed in lectures as a written report. The students will summarise theoretical aspects of the unit learnt from attending lectures and further reading on which they will be examined.

Learning Task	Assessment Task	Weighting
Practical experience of Internet security Technologies	Laboratory exercises	25% - 40%
Apply critical and analytical skills to the evaluation of Internet security systems	Written report	30 - 50%
Attend lectures, read and summarise theoretical aspects of the unit	Examination	25 - 40%

### METHODOLOGY

This unit involves lectures, interactive tutorials, computer laboratory sessions, a significant block of private study and electronic delivery.

### REFERENCES

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- Ruvn,A., Geer,D. & Ranum,M. (1997) *Web Security Sourcebook* John Wiley & Sons.
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