Unit Code and Title	**BIS3004 IS Security and Risk Management**
Course(s)	Bachelor of Business Information Systems
Core or Elective	Core: Bachelor of Business Information Systems
Credit Points	6 credit points
Duration	12 weeks (10 teaching weeks; 1 study week; 1 final assessment week)
AQF Level	7
Student Workload	Students should expect to spend approximately 8.5 hours per week over 12 weeks on learning activities for this unit. This includes time spent attending scheduled classes, undertaking private study, preparing assessments, and completing examinations.
Essential Requirements	
Mode(s) of Delivery	On campus /Online
Pre-Requisites	BIS2001 IT Infrastructure and Networking

Unit Description

Security is a vital responsibility for organisations and it is critical to IT applications and business success. This unit explores the concept and specialised applications of information security and risks associated with information systems, and the implications that these risks have in a larger business context. Topics covered include cryptography fundamentals, computer security, network security, data security, web security, social issues of security and implementation. This unit provides students with advanced knowledge and skills for IT security industry. Students will develop the ability to identify different types of risks and learn how organisations employ various methods to manage those risks. Students will come to understand the importance of information security and risk management through a variety of case studies, developing both a theoretical and practical grasp of the role information system risk management plays in modern business.

Unit Learning Outcomes (ULOs)

On successful completion of this unit, students will be able to:

ULO-1: Research and synthesise technical concepts and frameworks related to information security, computing, networking, and emerging technologies.
ULO-2: Diagnose security risks, threats and vulnerabilities to the organisation and discuss appropriate information security protection mechanisms.
ULO-3: Develop risk management plans for specific organisational challenges using contemporary risk identification, assessment, and control techniques.
ULO-4: Evaluate the essential elements of modern network security including cryptography algorithms, digital certificates, public key infrastructure, and transport encryption protocols.