Styles

Course title: Advanced Cyber Security

Course number:	ISCG7407	Level:	7	Credits:	15

Main programme:	BCS
Pre-requisites:	For BCS: ISCG6407, ISCG6400 and ISCG6403 For GDCMP: ISCG6407 & ISCG6400
Co-requisites:	None
Anti-requisites:	None
Compulsory/elective:	BCS Elective GDCMP Elective
Learning time:	150 hours

(Lecturer) Contact hours	Non-contact hours	Total hours
32	118	150

Level descriptors:

The student is able to carry out processes that	… requiring	… and applied
• require a command of highly specialised technical or scholastic and basic research skills across a major discipline • involve the full range of procedures in a major discipline • are applied in complex, variable and specialised contexts …	• knowledge of a major discipline with areas of specialisation in depth • the analysis, transformation and evaluation of abstract data and concepts • the creation of appropriate responses to resolve given or contextual abstract problems…	• in planning, resourcing and managing processes • within broad parameters and functions • with complete accountability for determining, achieving and evaluating personal and/or group outcomes.

Course aim: To provide students with a deep understanding of the principles of information security in cyber space, enabling them to analyse various phases in the Cyber Attack Cycle and plan prevention mechanisms into their network design.

Learning outcomes:

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1.	Critically analyse and describe the principles of information and infrastructure security in the context of cyber security.
2.	Critically analyse and describe a selection of security technologies and solutions
3.	Critically analyse and describe various common cyber security threats according to risk mitigation priority and describe triple stages of these attacks.
4.	Research and analyse cyber security issues and solutions from the risk mitigation priority perspectives.