



APPROVED

Awards					
Master of Science					
Programme Code:	BN_KMACS_M	Mode of Delivery:	Full Time	No. of Semesters:	2
NFQ Level:	9				
Programme Credits:	90				
Institute Code:	BN528M				
Department:	Computing				
Programme Extra Information:	30 credits to be taken from Group Elective 1, 2 or 3 in semester 1				

Programme Outcomes

On successful completion of this programme the learner will be able to :

PO1	Knowledge - Breadth	
	(a)	expert knowledge of current, state-of-the-art specialist computing areas related to Cyber Security and will be able to demonstrate knowledge of relevant research methodologies.
PO2	Knowledge - Kind	
	(a)	an awareness and critical understanding of developments in a number of specialist areas relating to Cyber Security and be able to discuss current challenges and research activities in these areas and apply accepted methodologies for tackling problems.
PO3	Skill - Range	
	(a)	an ability to select and apply research tools and techniques of enquiry, forming a solid foundation for pursuing further research; critically evaluate design and implementation issues in cyber security areas as a result of the research undertaken and independently acquire and assess knowledge in novel and emerging technologies that effect cyber security.
PO4	Skill - Selectivity	
	(a)	independently acquire and assess knowledge in Cyber Security technologies to successfully plan and implement a research project to solve a challenging cyber security problem; formulate judgements and synthesise conclusions following the completion of the research project.
PO5	Competence - Context	
	(a)	A professional and confident attitude based on competence and excellence
	(b)	An awareness, appreciation and ability to leverage changing nature of technology
PO6	Competence - Role	
	(a)	An understanding and appreciation of the need for quality
	(b)	Professionalism
PO7	Competence - Learning to Learn	
	(a)	An attitude that recognises the need to constantly update knowledge and skills
PO8	Competence - Insight	
	(a)	A customer and solutions focus
	(b)	An attitude based on initiative, responsibility and problem ownership

Semester Schedules

Stage 1 / Semester 1

Group Elective 1	
Module Code	Module Title
MACS H6011	Network Security
MACS H6015	Digital Forensics

Group Elective 2	
Module Code	Module Title
MACS H6012	Cyber Crime Malware
MACS H6017	Secure Programming
MACS H6019	Application Security

Group Elective 3	
Module Code	Module Title
MACS H6013	Business Continuity Management
MACS H6016	Biometrics
MACS H6020	Security Intelligence

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
MSIT H6060	MSc Research Project - 60