



APPROVED

<b>Awards</b>					
Master of Science					
<b>Programme Code:</b>	BN_KMACS_R	<b>Mode of Delivery:</b>	Full Time	<b>No. of Semesters:</b>	3
<b>NFQ Level:</b>	9				
<b>Programme Credits:</b>	90				
<b>Institute Code:</b>	BN528R				
<b>Department:</b>	Computing				
<b>Programme Extra Information:</b>	20 credits to be taken from electives in semester 2				

## Programme Outcomes

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

<b>PO1</b>	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.
<b>PO2</b>	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.
<b>PO3</b>	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.
<b>PO4</b>	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.
<b>PO5</b>	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
<b>PO6</b>	Competence - Role	
	(a)	An understanding and appreciation of the need for quality
	(b)	Professionalism
<b>PO7</b>	Competence - Learning to Learn	
	(a)	An attitude that recognises the need to constantly update knowledge and skills
<b>PO8</b>	Competence - Insight	
	(a)	A customer and solutions focus
	(b)	An attitude based on initiative, responsibility and problem ownership

## Semester Schedules

### Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
MACS H6011	<a href="#">Network Security</a>
MACS H6015	<a href="#">Digital Forensics</a>
MACS H6014	<a href="#">Secure Communications &amp; Cryptography</a>

### Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
MACS H6021	<a href="#">Research Skills &amp; Ethics</a>

Elective	
Module Code	Module Title
MACS H6012	<a href="#">Cyber Crime Malware</a>
MACS H6013	<a href="#">Business Continuity Management</a>
MACS H6016	<a href="#">Biometrics</a>
MACS H6017	<a href="#">Secure Programming</a>
MACS H6019	<a href="#">Application Security</a>
MACS H6020	<a href="#">Security Intelligence</a>

Stage 1 / Semester 3

Mandatory	
Module Code	Module Title
MSIT H6029	<a href="#">MSc Research Project - 30</a>