

APPROVED



Awards	
BSc (Hons)	

Programme Code:	CR_KITMN_8
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Mode of Delivery:	Full Time, Part Time, ACCS
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No. of Semesters:	8
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NFQ Level:	8
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Embedded Award:	No
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Programme Credits:	240
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programmeReviewDate:	March 2022
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Department:	COMPUTER SCIENCE
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Programme Outcomes

Upon successful completion of this programme the graduate will be able to demonstrate... :

PO1	Knowledge - Breadth
	(a) Demonstrate a knowledge of the concepts, theories and methods required to successfully perform a broad range of management tasks in IT
PO2	Knowledge - Kind
	(a) Synthesise a broad range of both structured and unstructured information to develop business-driven IT strategies;
PO3	Skill - Range
	(a) Deploy appropriate theory, practices and tools for the specification, design, implementation and evaluation of a secure IT environment;
PO4	Skill - Selectivity
	(a) Make appropriate judgements on the optimum combination of IT initiatives across technical, organisational and procedural areas that a business should undertake based on context-specific factors;
PO5	Competence - Context
	(a) Manage the implementation of IT service approaches across a range of business environments which conform to relevant best practices from research, technical, corporate governance, financial and risk management perspectives;
PO6	Competence - Role
	(a) Work effectively as an autonomous individual or as a member of an IT service team and interact effectively with staff at all levels within an organization;
PO7	Competence - Learning to Learn
	(a) Manage own learning and development, including time management and organisational skills;
PO8	Competence - Insight
	(a) Ensure that the management of IT services meets the highest professional and ethical standards;

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
CMOD6001	Creativity Innovation&Teamwork
COMH6002	Computer Architecture
MATH6055	Maths for Computer Science
COMP6035	Computer Security Principles
SOFT6007	Web Development Fundamentals
SOFT6018	Programming Fundamentals

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
SOFT6017	Modular Programming
COMP6041	Introduction to Databases
COMP6042	Operating Systems in Practice
COMP6027	Networking Fundamentals
MATH6004	Discrete Maths
COMP6043	Physical Computing

Stage 2 / Semester 1

Mandatory	
Module Code	Module Title
COMP7036	Linux Administration
SOFT7022	Database Design
SOFT7006	Operating Systems
SOFT7007	Requirements Engineering
COMP7032	Routing and Switching Concepts
Elective	
Module Code	Module Title
FREE6001	Free Choice Module
SOFT7031	Client-side Web Development
SOFT7008	Server-side Web Development

Stage 2 / Semester 2

Mandatory	
Module Code	Module Title
COMP7044	Systems Scripting
COMP8017	Database Administration
COMP7045	Windows Security
COMP7041	Virtualisation Technologies
COMP7033	Scaling and Managing Networks
Elective	
Module Code	Module Title
FREE6001	Free Choice Module
COMP7004	Cyberethics
COMP7011	Internet & Network Services

Stage 3 / Semester 1

Mandatory	
Module Code	Module Title
SOFT7003	Group Project
COMP7012	IT Project Management
COMP8022	Network Security
SOFT8019	Data Centre Virtualisation
COMP7039	Agile Processes
Elective	
Module Code	Module Title
FREE6001	Free Choice Module
COMP7040	Technical Writing using XML
COMP8055	Cloud Networking

Stage 3 / Semester 2

Group Elective 1	
Module Code	Module Title
PLAC7009	Work Placement
Group Elective 2	
Module Code	Module Title
APEX8030	Approved External Study - 30 Credits
Group Elective 3	
Module Code	Module Title
FREE6001	Free Choice Module
COMP7047	Open Source Projects
COMP7046	Technical Communication Skills
COMP8045	Emerging Technological Trends

Stage 4 / Semester 1

Mandatory	
Module Code	Module Title
COMP8019	IT Service Management
COMH8001	Enterprise Storage Systems
COMP8027	Security Monitoring
INTR8016	Project - Research Phase
COMP8031	IT Transformation
Elective	
Module Code	Module Title
FREE6001	Free Choice Module
COMP8052	Software-Defined Networking
COMP7040	Technical Writing using XML
COMP8050	Security for Software Systems

Stage 4 / Semester 2

Mandatory	
Module Code	Module Title
COMP8028	Security Penetration Testing
COMP8056	IT Solutions Architecture
INTR8015	Project - Implementation Phase
LEGS8001	Ethical and Legal Issues in IT
Elective	
Module Code	Module Title
COMP8057	Security Management
COMP8004	Applied Cryptography
COMP7037	NoSQL Data Architectures
FREE6001	Free Choice Module