

AFRICA INTERNATIONAL UNIVERSITY

COURSE TEMPLATE

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

YEAR ONE

Semester 1			Semester 2		
Unit Code	Unit Name	Hours	Unit Code	Unit Name	Hours
UCC111	Bible Interpretation and Study Methods	3	UCC116	Communication Skills	3
UCC112	Library Research and Information Competency	3	UCC122	Foundations for Life and Mission	3
BIT111	Discrete Mathematics	3	UC123	Comparative Study of Religions	3
BIT110	Introduction Information Technology	3	BIT121	Database Systems	3
BIT112	Internet Technologies	3	BIT122	Programming Fundamentals	3
BIT113	Computer Support and Maintenance	3	BIT123	System Analysis and Design	3
BIT114	Linear Algebra	3	BIT124	Computer Organization and Architecture	3
Total Hours		21	Total Hours		21

Yearly Total = 42 Hours

YEAR TWO

Semester 1			Semester 2		
Unit Code	Unit Name	Hours	Unit Code	Unit Name	Hours
UCC211	Introduction to Sociology	3	UCC221	Environment, Development and Stewardship	3
UC212	Introduction to Psychology	3	UCC222	Introduction to Philosophy	3
BIT210	Probability and Statistics I	3	BIT221	Internet Programming	3
BIT211	Data Structures and Algorithms	3	BIT222	Calculus	3
BIT212	Network Configuration and Routing.	3	BIT223	Object Oriented Programming I	3
BIT213	Operating Systems	3	BIT224	Geographical Information Systems	3
BIT214	Information Systems Management	3	BIT225	Information Systems Project I	3
Total Hours		21	Total Hours		21

Yearly Total =42 Hours

YEAR THREE

Semester 1			Semester 2		
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Unit Code	Unit Name	Hours	Unit Code	Unit Name	Hours
BIT310	Multimedia Systems	3	BIT320	E-Commerce	3
BIT311	Distributed Systems	3	BIT321	Research Methods	3
BIT312	Object Oriented Programming II	3	BIT322	ICT and Society	3
BIT313	Introduction to Artificial Intelligence	3	BIT323	Data Communication and Networks	3
BIT314	Probability and Statistics II	3	BIT324	Advanced Database Systems	3
BIT315	Computer Security and Cryptography	3	BIT325	IT Project Management	3
BIT316	Strategic Management Information Systems	3	BIT326	Entrepreneurship	3
BIT440	Industrial Attachment	3			
	Total Hours	24		Total Hours	21

Yearly Total = 45 Hours

YEAR FOUR

Specialization Courses in Management Information System

Semester 1			Semester 2		
Unit Code	Unit Name	Hours	Unit Code	Unit Name	Hours
BIT410	Information Systems Project II	3	BIT410	Information Systems Project II	3
BIT420	Databases and Distributed Systems Security	3	BIT421	Organizational Corporate Computer and Network Security	3
BIT412	Simulation and Modelling	3	BIT425	Data Warehousing and Mining	3
BIT413	Human Computer Interaction	3	BIT426	Enterprise Resource Planning Systems	3
BIT414	Software Quality Assurance	3	BIT427	Information Systems Security Management	3
BIT417	Management and Auditing of Information Systems	3			
	Total Hours	18		Total Hours	15

Yearly Total = 33 Hours

Specialization Courses in Software Engineering

Semester 1			Semester 2		
Unit Code	Unit Name	Hours	Unit Code	Unit Name	Hours
BIT410	Information Systems Project II	3	BIT410	Information Systems Project II	3
BIT420	Databases and Distributed Systems Security	3	BIT421	Organizational Corporate Computer and Network Security	3
BIT412	Simulation and Modelling	3	BIT422	Mobile Application Programming	3
BIT413	Human Computer Interaction	3	BIT423	Software Testing	3

BIT414	Software Quality Assurance	3		BIT424	Software Economics and Management	3
BIT418	Software Requirements Engineering	3				
	Total Hours	18			Total Hours	15

Yearly Total = 33 Hours

Specialization Courses in Computer Networking

Semester 1			Semester 2		
Unit Code	Unit Name	Hours	Unit Code	Unit Name	Hours
BIT410	Information Systems Project II	3	BIT410	Information Systems Project II	3
BIT420	Databases and Distributed Systems Security	3	BIT428	Network Design, Implementation & Management	3
BIT412	Simulation and Modelling	3	BIT429	Wireless Networks	3
BIT415	Network Operating System	3	BIT430	Network System Administration	3
BIT416	Wireless Network Technologies	3	BIT431	Broadband Networks	3
BIT419	Cryptography and Network Security	3			
	Total Hours	18		Total Hours	18

Yearly Total = 33 Hours