B.Sc. COMPUTER SCIENCE CURRICULUM

COURSES (**100L FIRST SEMESTER**)

100 LEVEL FIRST SEMESTER			
COURSE INFORMATION			
CODE	TITLE	UNITS	PRE-REQUISITES
Core			
CSC101	Fundamentals of Computing	3	"O" Level Math
MTH105	Trigonometry & Coordinate Geometry	2	,,
MTH107	Sets and Number Systems	2	,,
MTH109	Differential & Integral Calculus	2	,,
PHY101	General Physics Lab I	1	"O" level Physics
PHY103	Mechanics, Thermal Physics and waves	3	,,
STA103	Introduction to Statistics	2	
General			
GST101	Communication Skills in English I	2	Nil
GST103	Nigerian People & Culture	2	Nil
Elective			
BIO101	General Biology I	2	
CHM101	Introduction to General Chemistry	2	

100 LEVEL SECOND SEMESTER			
COURSE INFORMATION			
CODE	TITLE	UNITS	PRE-REQUISITES
Core			
CSC102	Introduction to Problem Solving	3	"O" Level Math
MTH106	Algebra	2	,,
MTH112	Vectors and Dynamics	2	,,
MTH114	Conic sections and application of calculus	2	,,
STA104	Probability I	2	,,
General			
GST102	Use of Library Skills and Information	2	Nil
GST104 (Or 106)	Communication in French (Or Arabic)	2	Nil
Elective			
CHM104	Introductory Organic Chemistry	2	
CHM108	Introduction to Physical Chemistry	2	
PHY102	Electricity, Magnetism & Modern Physics	3	

200 LEVEL FIRST SEMESTER			
COURSE INFORMATION			
CODE	TITLE	UNITS	PRE-REQUISITES
Core			
CSC201	Computer Programming 1	3	CSC101
CSC203	Operating System I	3	CSC101
CSC205	Computer Architecture & Organization	3	
MTH201	Mathematical Methods	3	MTH 103
MTH209	Logic & Axiomatic Set Theory	3	MTH 107
MTH203	Linear Algebra I	3	MTH 107
General			
GST201	Communication in English II	2	
GST203	History and Philosophy of Science	2	

200 LEVEL SECOND SEMESTER			
COURSE INFORMATION			
CODE	TITLE	UNITS	PRE-REQUISITES
Core			
CSC202	Computing Programming II	3	CSC102
CSC204	Fundamentals of Data Structures	3	
CSC206	Computer Hardware	3	CSC103
MTH210	Differential Equations	3	
MTH204	Linear Algebra II	3	MTH 106
General			
GST202	Logic, Philosophy and Human Existence	2	
GST204	Peace Study and Conflict Resolution	2	
Elective			
MTH214	Introduction to Numerical Analysis	3	MTH 109

300 LEVEL FIRST SEMESTER			
COURSE INFORMATION			
CODE	COURSE TITLE	CREDIT UNITS	PRE-REQUISITES
CSC301	Algorithm & Complexity Analysis	3	CSC201
CSC307	System Analysis & Design	3	CSC201
CSC311	Theory of Computing	3	
CSC313	Object Oriented Programming	3	
CSC315	Data Management	3	
ENT 301	Entrepreneur and Innovation	2	
MTH 325	Introduction to Operation Research	3	MTH203

300 LEVEL SECOND SEMESTER			
COURSE CODE	COURSE TITLE	CREDIT UNITS	PRE-REQUISITES
CSC350	SIWES	6	1. Students must be at 300 level 2. Carryover or outstanding lower-level second semester courses must be less than 6 units if any.
Note: The placement is for six months and students are required to produce satisfactory reports on their work throughout the period of industrial training. A supervisor will be assigned to each student. The supervisor will be a member of academic staff in the department.			

400 LEVEL FIRST SEMESTER			
COURSE INFORMATION			
CODE	TITLE	UNITS	PRE-REQUISITES
Core			
CSC401	Software Engineering	4	
CSC403	Net-centric Computing	3	
CSC405	Org. of Programming Languages	3	
CSC423	Compiler Construction I	3	
CSC415	Computer Modeling and Simulation	3	
Elective			
CSC413	Computer Graphics	3	
CSC417	Project Management	3	
Note: In addition to all core courses, a minimum of three (3) credit units should be chosen from any of the elective courses listed above. Also, the maximum courses to be registered is (24) credit units			

400 LEVEL SECOND SEMESTER			
CODE	TITLE	UNITS	PRE-REQUISITES
Core			
CSC400	Project	6	
CSC402	Human Computer Interface	2	
CSC404	Computer Networks & Communication	3	
CSC412	Artificial Intelligence	3	
General			
ENT402	Business Creation and Growth	2	
Elective			
CSC416	Information Technology Law	3	
CSC408	Computer Systems Performance Evaluation	3	
Note: In addition to all core courses, a minimum of three (3) credit units should be chosen from any of the elective courses listed above. Also, the maximum courses to be registered is (24) credit units			