NATIONAL OPEN UNIVERSITY OF NIGERIA

B. Sc Computer Science

in the

School of Science and Technology

February, 2016

Programme Code: 5204

Outlined Programme

100 Level

Course Code	Course Title	Unit	Status
1st Semester			
GST 101	Use of English and Communication Skills I	0	C
GST 107	The Good Study Guide	0	C
BIO101	General Biology I	2	C
CHM101	Introductory Inorganic Chemistry	2	C
CHM103	Introductory Physical Chemistry	2	C
CIT 101	Computers in Society	2	C
CIT 143	Introduction to Data Organisation and Management	2	C
MTH 101	Elementary Mathematics I	3	C
MTH 103	Elementary Mathematics III	3	C
PHY 101	Elementary Mechanics, Heat and Properties of Matter	2	C
BIO191	General Practical Biology I	1	C
CHM191	Introductory Practical Chemistry I	1	C
PHY 191	Introductory Practical Physics I	1	C
	Total Credit Units - Compulsory	**18**	
	Total Credit Units - Elective	**0**	
	Total Credit Units	**18**	
2nd Semester			
GST 102	Use of English and Communication Skills II	0	C
CHM102	Introductory Organic Chemistry	2	C
CIT 102	Software Application Skills	2	C
STT102	Introductory Statistics	2	C
MTH 102	Elementary Mathematics II	2	C
BIO102	General Biology II	2	C
BIO192	General Biology Practical II	1	C
CHM192	Introductory Practical Chemistry II	1	C
PHY 102	Electricity, Magnetism and Modern Physics	3	C
PHY 192	Introductory Practical Physics II	1	C
	Total Credit Units – Compulsory	**16**	
	Total Credit Units - Elective	**0**	
	Total Credit Units	**16**	

200 Level

Course Code	Course Titles	Unit(s)	Status
1st Semester			
GST 201	Nigerian Peoples and Cultures	0	C
GST 203	Introduction to Philosophy and Logic	0	C
CIT 211	Introduction to Operating Systems	3	C
CIT 213	Elementary Data Processing	2	E
CIT 215	Introduction to Programming Languages	3	C
CIT 237	Programming & Algorithms	3	C
MTH 211	Introduction to Set Theory and Abstract Algebra	3	E
MTH 213	Numerical Analysis I	3	C
MTH 241	Introduction to Real Analysis	3	E
MTH 281	Mathematical Methods I	3	C
	Total Compulsory Units	**15**	
	Total Elective Units	**8**	
	Total Credit Units	**23**	
	**** Students are expected to offer at least one elective course per semester. Also they can only register a maximum of 25 units per semester***		
2nd Semester			
GST 202	Fundamentals of Peace Studies and Conflict Resolution	0	C
CIT 208	Information Systems	2	C
CIT 212	Systems Analysis and Design	3	C
CIT 246	Introduction to Computer Organisation	2	C
CIT 292	Computer Laboratory I	2	C
MTH 212	Linear Algebra II	3	E
MTH 232	Elementary Differential Equation	3	E
MTH 282	Mathematical Methods II	3	C
STT 211	Probability Distribution I	3	E
	Total Compulsory Units	**12**	
	Total Elective Units	**9**	
	Total Credit Units	**21**	
	**** Students are expected to offer at least one elective course per semester. Also they can only register a maximum of 25 units per semester***		

300 Level

Course Code	Course Titles	Unit(s)	Status
1st Semester			
CIT 309	Computer Architecture	3	C
CIT 311	Computer Networks	3	C
CIT 333	Software Engineering I	2	C
CIT 341	Data Structures	3	C
CIT 351	C# Programming	2	C
CIT 353	Introduction to Human-Computer Interaction	2	C
CIT 371	Introduction to Computer Graphics and Animations	3	E
CIT 383	Introduction to Object-Oriented Programming	2	C
MTH 307	Numerical Analysis II	3	E
MTH 381	Mathematical Methods III	3	E
STT 311	Probability Distribution II	3	E
	Total Compulsory Units	**17**	
	Total Elective Units	**13**	
	Total Credit Units	**30**	
	**** Students are expected to offer at least one elective course per semester. Also they can only register a maximum of 25 units per semester***		
2nd Semester			
CIT 322	Introduction to Internet Programming	3	C
CIT 342	Formal Languages and Automata theory	3	C
CIT 344	Introduction to Computer Design	3	C
CIT 381	File Processing and Management	2	C
CIT 389	Industrial Training /SIWES	6	C
CIT 392	Computer Laboratory II	2	C
MTH 382	Mathematical Methods IV	3	E
	Total Compulsory Units	**19**	
	Total Elective Units	**3**	
	Total Credit Units	**22**	
	**** Students are expected to offer at least one elective course per semester. Also they can only register a maximum of 25 units per semester***		

400 Level

Course Code	Course Titles	Unit(s)	Status
1st Semester			
CIT 403	Seminar on Emerging Technologies	3	C
CIT 411	Microcomputers and Microprocessors	2	C
CIT 425	Operations Research	3	C
CIT 427	Database Systems and Management	3	C
CIT 445	Principles and Techniques of Compilers	3	C
CIT 461	Internet Architecture and Communication	3	E
CIT 463	Introduction to Multimedia Technology	3	E
CIT 465	Network Administration	2	E
CIT 467	Visual Programming and Applications	3	E
	Total Compulsory Units	**14**	
	Total Elective Units	**11**	
	Total Credit Units	**25**	
	**** Students are expected to offer at least one elective course per semester. Also they can only register a maximum of 25 units per semester***		
2nd Semester			
CIT 412	Modelling and Simulation	3	C
CIT 432	Software Engineering II	3	C
CIT 474	Introduction to Expert Systems	2	E
CIT 478	Artificial intelligence	3	E
CIT 484	Website Design and Programming	2	C
CIT 499	Project	6	C
	Total Compulsory Units	**14**	
	Total Elective Units	**5**	
	Total Credit Units	**19**	
	**** Students are expected to offer at least one elective course per semester. Also they can only register a maximum of 25 units per semester***		

N/B: B.Sc (Computer Science Students) Students must accumulate a minimum of 120 credit units to graduate.

4.2 Course Content Specification: For graduation with a B.Sc.(Hons.) in Computer Science, the students must have a minimum of 140 credit units of core courses and 12 units of elective courses for an 8 semester structure and 110 credit units of core courses and 10 units of elective courses for a 6 semester structure.