

BSC COMPUTER SCIENCE PROGRAMME

PROGRAMME COMPONENT/STRUCTURE

The Bachelor of Science (Computer Science) programme at the Kings University College is a four-year programme with a total of 144 credits. The minimum credit required for graduation is 136 credits over 8 semesters of sixteen weeks duration. The programme structure and course descriptions are as follows:

COURSES

YEAR ONE 1ST SEMESTER

		Lecturer Credit	Practical Credit	Total Credit
KUCS101	Principles of Programming	2	1	3
KUCS103	Fundamentals of Computing	2	1	3
KUCS105	Mathematical Foundations in Computer Science	3		3
UWEN101	English Language - I	3		3
UWFR101	French Language - I	3		3
BAMG101	African Studies - I (African Civilization)	3		3
	Total Credits			18 credits

YEAR ONE 2ND SEMESTER

KUCS102	Intermediate Programming	2	1	3
KUCS104	Theory of Computing	3		3
KUCS106	Calculus	3		3
UWFR102	French Language -II	3		3
UWEN102	English Language -II	3		3
BAMG102	African Studies - II (African Civilization)	3		3
	Total Credits			18 credits

TWO 1ST SEMESTER

KUCS201	Introduction to Operating Systems	2	1	3
KUCS203	Introduction to Databases System	2	1	3
KUCS205	Digital Electronics	3		3
KUCS207	Object-Oriented Programming	2	1	3
KUCS209	Data Structures & Algorithms	3	1	3
KUCS211	Advanced Calculus	3		3
	Total Credits			18 credits

YEAR TWO 2ND SEMESTER

KUCS202	Introduction to Web Design and Programming	2	1	3
KUCS204	Numerical Methods	3		3
KUCS206	Computer Architecture and Organization	2	1	3
KUCS208	Management Information Systems	3		3
KUCS210	Human Computer Interaction	3		3
KUCS212	Linear Algebra		3	3
	Total Credits			18 credits

YEAR THREE 1ST SEMESTER

		Lecturer Credit	Practical Credit	Total Credit
KUCS301	Advanced Web Programming and Technologies	2	1	3
KUCS303	Advanced Database Management Systems	2	1	3
KUCS305	Multimedia Systems	2	1	3
KUCS307	Software Engineering	3		3
KUCS309	Distributed Systems	3		3
KUCS311	Research Methods	3		3
	Total Credits			18 credits

YEAR THREE 2ND SEMESTER

KUCS302	Data Communication and Networks	2	1	3
KUCS304	Software Architecture Design	3		3
KUCS306	Complexity of Algorithms	2	1	3
KUCS308	Mobile System and Application	3		3
KUCS310	Computer Graphics	3		3
KUCS312	Digital Marketing	3		3
	Total Credits			18 credits

YEAR FOUR 1ST SEMESTER

KUCS401	E-Commerce	3		3
KUCS403	Systems Analysis And Design			3
KUCS405	Entrepreneurship	3		3
KUCS407	IT Project Management	3		3
KUCS409	Artificial Intelligence	3		3
KUCS411	Project Work - I	3		3
	Total Credits			18 credits

YEAR FOUR 2ND SEMESTER

KUCS402	Systems Administration	2	1	3
KUCS404	Cryptography & Network Security	3		3
KUCS406	Operational Research	3		3
KUCS408	Ethical, Legal and Professional Issues in Computing	3		3
KUCS499	Project Work - II	3		3
	Elective	3		3
	Total Credits			18 credits

ELECTIVES (Choose one from the following)

KUCS410	Digital Image Processing	3		3
KUCS412	Computer Forensics	3		3
KUCS414	Games Technology	3		3
KUCS416	Business Strategy	3		3