

**KAKATIYA UNIVERSITY
WARANGAL - 506009**



Bachelor of Computer Application (BCA) Syllabus

Under the

**CHOICE BASED CREDIT SYSTEM
(With effect from 2016-17)**

DEPARTMENT OF COMPUTER SCIENCE

University College, KU, Warangal-506009

BCA I YEAR I SEMESTER

Code	Subject	Workload Per Week	Marks			Credit
			External	Internal	Total	
BCA11	General English- I	T(4)	70	30	100	4
BCA12	Fundamentals Of Information Technology	T (4)	70	30	100	4
BCA13	Programming with C	T (4)	70	30	100	4
BCA14	Discrete Mathematics	T (4)	70	30	100	4
BCA15	Management Information Systems	T (4)	70	30	100	4
BCA16	Fundamentals Of Information Technology Lab	L (4)	50	0	50	2
BCA17	Programming with C Lab	L (4)	50	0	50	2
				Total credits		24

BCA I YEAR II SEMESTER

Code	Subject	Workload Per Week	Marks			Credit
			External	Internal	Total	
BCA21	General English - II	T (4)	70	30	100	4
BCA22	Object Oriented Programming With C++	T (4)	70	30	100	4
BCA23	Probability And Statistics	T (4)	70	30	100	4
BCA24	Operating System	T (4)	70	30	100	4
BCA25	Computer Organization	T (4)	70	30	100	4
BCA26	Object Oriented Programming With C++ Lab	L (4)	50	0	50	2
BCA27	Operating system - lab	L (4)	50	0	50	2
				Total credits		24

BCA II YEAR I SEMESTER

Code	Subject	Workload Per Week	Marks			Credit
			External	Internal	Total	
BCA31	Data Structures With C++	T (4)	70	30	100	4
BCA32	Operation Research	T (4)	70	30	100	4
BCA33	Web Programming	T (4)	70	30	100	4
BCA34	Software Engineering	T (4)	70	30	100	4
BCA35	Computer Networks	T (4)	70	30	100	4
BCA36	Data Structures - Lab	L (4)	50	0	50	2
BCA37	Web Programming - Lab	L (4)	50	0	50	2
				Total credits		24

BCA II YEAR II SEMESTER

Code	Subject	Workload Per Week	Marks			Credit
			External	Internal	Total	
BCA41	Design And Analysis Of Algorithms	T (4)	70	30	100	4
BCA42	Database Management Systems	T (4)	70	30	100	4
BCA43	Java Programming	T (4)	70	30	100	4
BCA44	System Approach To Management	T (4)	70	30	100	4
BCA45	Computer Graphics	T (4)	70	30	100	4
BCA46	Database Management Systems - Lab	L (4)	50	0	50	2
BCA47	Java Programming - Lab	L (4)	50	0	50	2
				Total credits		24

BCA III YEAR I SEMESTER

Code	Subject	Workload Per Week	Marks			Credit
			External	Internal	Total	
BCA51	Multimedia Systems And Applications	T (4)	70	30	100	4
BCA52	Object Oriented Design in UML	T (4)	70	30	100	4
BCA53	Visual Programming	T (4)	70	30	100	4
BCA54	E-Commerce Technologies	T (4)	70	30	100	4
BCA55	Cryptography and Network Security	T (4)	70	30	100	4
BCA56	Multimedia Systems And Applications- lab	L (4)	50	0	50	2
BCA57	Visual Programming- Lab	L (4)	50	0	50	2
				Total credits		24

BCA III YEAR II SEMESTER

Code	Subject		Workload Per Week	Marks			Credit
				External	Internal	Total	
BCA61	Elective A1/B1/C1		T(4)	70	30	100	4
	A1	Artificial Intelligence					
	B1	Theory of Computation					
	C1	Digital Image Processing					
BCA62	Elective A2/B2/C2		T(4)	70	30	100	4
	A2	Data mining					
	B2	Android Programming					
	C2	Unix programming					
BCA63	Major project (including Seminars)			300	100	400	16
					Total credits		24