

Schemes and Syllabus

BACHELOR OF COMPUTER APPLICATIONS (BCA)

Department of Computer Science & Technology



Atal Shiksha Nagar (Kallujhanda), P.O.

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SEMESTER WISE SCHEME

BCA 1st Year / 1st Semester

Course			Period			Evaluation Scheme					Course Total		
Sr. No.	Code	Title	L	T	P	Sessional Marks				Exam Marks	Max. Marks Credits		
						MSE	CA	P	Total	ESE	Marks	Credits	
THEORY													
1	BCA-101	Fundamentals of Computer & PC -Software	3	0	0	30	15	0	45	30	75	3	
3	BCA-102	Logical Paradigm of Programming in 'C'	3	0	0	30	15	0	45	30	75	3	
5	BCA-103	Environmental Sciences And Technology	3	0	0	40	20	0	60	40	100	3	
2	BCA-104	Mathematics-I	4	0	0	40	20	0	60	40	100	4	
4	ENG-101	Professional Communication	3	0	0	30	15	0	45	30	75	3	
PRACTICAL													
1	BCA-101P	Fundamentals of Computer & PC-Software LAB	0	0	2				15	15	10	25	1
2	BCA-102P	Logical Paradigm of Programming in 'C' LAB	0	0	4				15	15	10	25	2
3	ENG-101P	Professional Communication LAB	0	0	2				15	15	10	25	1
Total Credits												20	

BCA 1st Year / 2nd Semester

Course			Period			Evaluation Scheme					Course Total	
Sr. No.	Code	Title	L	T	P	Sessional Marks				Exam Marks	Max. Marks Credits	
						MSE	CA	P	Total	ESE	Marks	Credits
THEORY												
2	BCA-201	Programming in 'C' & Data Structure	3	0	0	30	15	0	45	30	75	3
3	BCA-202	Digital Electronics	4	0	0	40	20	0	60	40	100	4
4	BCA-203	Operating System	3	0	0	30	15	0	45	30	75	3
1	BCA-204	Mathematics-II	4	0	0	40	20	0	60	40	100	4
5	ENG-201	Oral & Written communication	3	0	0	30	15	0	45	30	75	3
PRACTICAL												
1	BCA-201P	Programming in 'C' & Data Structure LAB	0	0	4			15	15	10	25	2
2	BCA-203P	Operating System (Linux) LAB	0	0	4			15	15	10	25	2
3	ENG-201P	Oral & Written communication LAB	0	0	2			15	15	10	25	1
Total Credits											22	

BCA 2nd Year / 3rd Semester

Course			Period			Evaluation Scheme					Course Total		
Sr. No.	Code	Title	L	T	P	Sessional Marks				Exam Marks	Max. Marks Credits		
						MSE	CA	P	Total	ESE	Marks	Credits	
THEORY													
1	BCA-301	Software Engineering	4	1	0	40	20	0	60	40	100	4.5	
3	BCA-302	C++ & Advanced Data Structure	3	0	0	30	15	0	45	30	75	3	
4	BCA-303	Introduction To Database System	3	0	0	30	15	0	45	30	75	3	
5	BCA-304	Computer Networks	3	1	0	40	20	0	60	40	100	3.5	
2	BCA-305	Numerical Analysis	4	0	0	40	20	0	60	40	100	4	
PRACTICAL													
1	BCA-302P	C++ & Advanced Data Structure LAB	0	0	4				15	15	10	25	2
2	BCA-303P	Introduction To Database System LAB	0	0	4				15	15	10	25	2
Total Credits											22		

BCA 2nd Year / 4th Semester

Course			Period			Evaluation Scheme					Course Total		
Sr. No.	Code	Title	L	T	P	Sessional Marks				Exam Marks	Max. Marks Credits		
						MSE	CA	P	Total	ESE	Marks	Credits	
THEORY													
1	BCA-401	Computer Graphics	3	0	0	30	15	0	45	30	75	3	
2	BCA-402	Internet Technology	4	1	0	40	20	0	60	40	100	4.5	
3	BCA-403	Mobile Computing	4	0	0	40	20	0	60	40	100	4	
4	BCA-404	Introduction to Dot NET	3	0	0	30	15	0	45	30	75	3	
5	BCA-405	E-Commerce	4	1	0	40	20	0	60	40	100	4.5	
PRACTICAL													
1	BCA-401P	Computer Graphics	0	0	4				15	15	10	25	2

		LAB										
2	BCA-404P	Introduction to Dot NET LAB	0	0	4			15	15	10	25	2
Total Credits											23	

BCA 3rd Year / 5th Semester

Course			Period			Evaluation Scheme					Course Total		
Sr. No.	Code	Title	L	T	P	Sessional Marks				Exam Marks	Max. Marks Credits		
						MSE	CA	P	Total	ESE	Marks	Credits	
THEORY													
1	BCA-501	Introduction to Web Technologies	3	0	0	30	15	0	45	30	75	3	
2	BCA-502	Multimedia and System	4	0	0	40	20	0	60	40	100	4	
3	BCA-503	Management Information System	4	0	0	40	20	0	60	40	100	4	
4	BCA-504	Computer Organization	4	0	0	40	20	0	60	40	100	4	
5	BCA-505	Linux & Shell Programming	3	0	0	30	15	0	45	30	75	3	
PRACTICAL													
1	BCA-501P	Mini project based on Web Technologies	0	0	4				15	15	10	25	2
2	BCA-505P	Linux & Shell Programming LAB	0	0	4				15	15	10	25	2
Total Credits											22		

BCA 3rd Year / 6th Semester

Course			Period			Evaluation Scheme					Course Total	
Sr. No.	Code	Title	L	T	P	Sessional Marks				Exam Marks	Max. Marks Credits	
						MS E	C A	P	Total	ESE	Marks	Credits
THEORY												
1	BCA-601	Advanced DBMS	3	1	0	40	20	0	60	40	100	4
2	BCA-602	Web DESIGNING – II	3	0	0	30	15	0	45	30	75	3
PRACTICAL												
1	BCA-691P	Project	0	0	28				240	160	400	14

2	BCA - 602P	Web DESIGNING -II LAB	0	0	4			15	15	10	25	2
Total Credits											23	