

SYLLABUS FOR BCA

YEAR - 1

SEMESTER - 1

CODE	NAME OF THE PAPER	Period			Evaluation Scheme			CREDIT	HOURS
		LECTURES	TUTORIALS	PRACTICALS	MSE	ESE	SUB-TOTAL		
BCA 101	Communicative English	3	1	0	40	60	100	4	3
BCA 102	Basic Mathematics	4	1	0	40	60	100	5	5
BCA 103	Information Technology & Application	4	0	0	40	60	100	4	4
BCA 104	Principles of Management & Organization	4	1	0	40	60	100	5	5
BCA 105	Python Programming (Elective 1)	4	0	0	40	60	100	4	4
BCA 106	Problem Solving & Programming Concept (Elective 2)	4	0	0	40	60	100	4	4

Either Elective 1 or Elective 2 can be opted.

Sessional

CODE	NAME OF THE PAPER	Period			Evaluation Scheme			CREDIT	HOURS
		LECTURES	TUTORIALS	PRACTICALS	CPA	ESE	SUB-TOTAL		
BCA 107	Lab 103	0	0	3	20	30	50	2	3
BCA 108	Lab 105	0	0	3	20	30	50	2	3
BCA 109	Lab 106	0	0	3	20	30	50	2	3
	Total						600	26	29

SEMESTER - 2

CODE	NAME OF THE PAPER	Period			Evaluation Scheme			CREDIT	HOURS
		LECTURES	TUTORIALS	PRACTICALS	MSE	ESE	SUB-TOTAL		
BCA 201	Business English	3	1	0	40	60	100	4	3
BCA 202	Mathematics (Numerical Techniques)	4	1	0	40	60	100	5	5
BCA 203	System Analysis & Design	4	1	0	40	60	100	5	5
BCA 204	Problem Solving Technique & Programming in C	4	0	0	40	60	100	4	4
BCA 205	Operating System & Unix	4	0	0	40	60	100	4	4

Sessional

CODE	NAME OF THE PAPER	Period			Evaluation Scheme			CREDIT	HOURS
		LECTURES	TUTORIALS	PRACTICALS	CPA	ESE	SUB-TOTAL		
BCA 206	Lab 204	0	0	3	20	30	50	2	3
BCA 207	Lab 205	0	0	3	20	30	50	2	3
	Total						600	26	29

YEAR - 2

SEMESTER - 3

CODE	NAME OF THE PAPER	Period			Evaluation Scheme			CREDIT	HOURS
		LECTURES	TUTORIALS	PRACTICALS	MSE	ESE	SUB-TOTAL		
BCA 301	Object Oriented Programming using C++	4	0	0	40	60	100	4	4
BCA 302	Internet & Web Designing	4	1	0	40	60	100	5	5
BCA 303	Java Programming	4	0	0	40	60	100	4	4
BCA 304	Software Engineering	4	1	0	40	60	100	5	5

Sessional

CODE	NAME OF THE PAPER	Period			Evaluation Scheme			CREDIT	HOURS
		LECTURES	TUTORIALS	PRACTICALS	CPA	ESE	SUB-TOTAL		
BCA 305	Lab 301	0	0	4	40	60	100	3	4
BCA 306	Lab 303	0	0	4	40	60	100	3	4
	Total						600	24	26

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SEMESTER - 4												
Theory		Period				Evaluation Scheme			Evaluation Scheme			
CODE	NAME OF THE PAPER	LECTURES	TUTORIALS	PRACTICALS	MSE	ESE	SUB-TOTAL	CREDIT	HOURS			
BCA 401	Relational Data Base Management System	5	0	0	40	60	100	5	5			
BCA 402	Digital Electronics, Computer System Architecture, and Organisation	4	1	0	40	60	100	5	5			
BCA 403	File & Data Structure	4	0	0	40	60	100	4	4			
BCA 404	Introduction to Statistics	3	1	0	40	60	100	4	4			
Sessional												
Period		LECTURES	TUTORIALS	PRACTICALS	CPA	ESE <td>SUB-TOTAL</td> <td>CREDIT</td> <td>HOURS</td> <td colspan="3"></td>	SUB-TOTAL	CREDIT	HOURS			
BCA 405	Lab 401	0	0	4	40	60	100	3	4			
BCA 406	Lab 403	0	0	4	40	60	100	3	4			
Total							600	24	26			
YEAR - 3												
SEMESTER - 5												
Theory		LECTURES	TUTORIALS	PRACTICALS	MSE	ESE <td>SUB-TOTAL</td> <td>CREDIT</td> <td>HOURS</td> <td colspan="3"></td>	SUB-TOTAL	CREDIT	HOURS			
BCA 501	Windows Programming using VB .Net	4	0	0	40	60	100	4	4			
BCA 502	Graphics & Multimedia	4	0	0	40	60	100	4	4			
BCA 503	Computer Network, Data Communication, and Client Server Technology	4	1	0	40	60	100	5	5			
BCA 504	Business Accounting & ERP	3	1	0	40	60	100	4	4			
Sessional												
Period		LECTURES	TUTORIALS	PRACTICALS	CPA	ESE <td>SUB-TOTAL</td> <td>CREDIT</td> <td>HOURS</td> <td colspan="3"></td>	SUB-TOTAL	CREDIT	HOURS			
BCA 505	Lab 501	0	0	4	40	60	100	3	4			
BCA 506	Lab 502	0	0	4	40	60	100	3	4			
Total							600	23	25			
SEMESTER - 6												
Theory		LECTURES	TUTORIALS	PRACTICALS	MSE	ESE <td>SUB-TOTAL</td> <td>CREDIT</td> <td>HOURS</td> <td colspan="3"></td>	SUB-TOTAL	CREDIT	HOURS			
BCA 601 A	Web Technology (Elective 1)	5	0	0	40	60	100	5	5			
BCA 601 B	Concept of Data Mining & Data Warehousing (Elective 2)	5	0	0	40	60	100	5	5			
BCA 602	E-Commerce	4	1	0	40	60	100	5	5			
BCA 603	Project & Viva	n/a	n/a	n/a	200	0	300	12	n/a			
Either Elective 1 or Elective 2 can be opted.												
Sessional		LECTURES	TUTORIALS	PRACTICALS	CPA	ESE <td>SUB-TOTAL</td> <td>CREDIT</td> <td>HOURS</td> <td colspan="3"></td>	SUB-TOTAL	CREDIT	HOURS			
BCA 604	Lab 601 A	0	0	3	40	60	100	2	3			
BCA 605	Lab 601 B	0	0	3	40	60	100	2	3			
Total							600	24	13			

GRAND TOTAL:
CREDITS = 147
MARKS = 3600

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