

BABU BANARASI DAS UNIVERSITY, LUCKNOW

B. Sc. (Honours) Computer Science

COURSE STRUCTURE (Under CBCS)

Course	Code	Title	Teaching			Evaluation				Credits	
						Theory		Lab/Seminar / Viva Voce/ Dissertation			Total
			L	T	P	CIA	ESE	CIA	ESE		
Core	BSC1101	Programming Fundamentals using C/C++	5	1		40	60	20	30	150	6
Core	BSC1102	Computer System Architecture	5	1		40	60			100	6
GE		Generic Elective - I	5	1		40	60			100	6
AECC	BSAE1101	Communicative English	2			40	60			100	2
GP	BSGP11	General Proficiency						100		100	1
21											
SEMESTER – II											
Core	BSC1201	Programming in JAVA	5	1		40	60	20	30	150	6
Core	BSC1202	Discrete Structure	5	1		40	60			100	6
GE		Generic Elective - II	4			40	60			100	6
AECC	BSAE1201	Environmental Studies	2			40	60			100	2
GP	BSGP12	General Proficiency				100				100	1
21											
SEMESTER – III											
Core	BSC1301	Data Structures	5	1		40	60	20	30	150	6
Core	BSC1301	Operating Systems	5	1		40	60	20	30	150	6
Core	BSC1301	Computer Networks	5	1		40	60			100	6
GE		Generic Elective - III	4			40	60			100	6
SEC	BSSE1311	Skill Enhancement Course - I	2			40	60			100	2
GP	BSGP 13	General Proficiency				100				100	1
27											
SEMESTER – IV											
Core	BSC 1401	Design and Analysis of Algorithms	5	1		40	60	20	30	150	6
Core	BSC 1402	Software Engineering	5	1		40	60			100	6
Core	BSC 1403	Database Management Systems	5	1		40	60	20	30	150	6
GE		Generic Elective - IV	4			40	60			100	6
SEC	BSSE1412	Skill Enhancement Course - I	2			40	60			100	2
GP	BSGP 14	General Proficiency				100				100	1
27											
SEMESTER – V											
Core	BSC 1501	Internet Technologies	5	1		40	60	20	30	150	6
Core	BSC 1502	Theory of Computation	5	1		40	60			100	6
DSE		Discipline Specific Elective - I	5	1		40	60	20	30	150	6
DSE		Discipline Specific Elective - II	5	1		40	60			100	6
Lab	BSS5	Seminar				100				100	2
26											
SEMESTER – VI											
Core	BSC 1601	Artificial Intelligence	5	1		40	60	50		150	6
Core	BSC 1602	Computer Graphics	5	1		40	60	50		150	6
DSE		Discipline Specific Elective - III	5	1		40	60			100	6
DSE		Discipline Specific Elective - IV	5	1		40	60			100	6
Lab	BSV6	Viva Voce					100			100	2
26											

ELECTIVE COURSES – B. Sc. (H) Computer Science

Code	Title	Teaching			Evaluation				Credits	
					Theory		Lab/Seminar/ Viva Voce/ Dissertation			Total
		L	T	P	CIA	ESE	CIA	ESE		
Generic Elective – I										
BSM 1101	Calculus	5	1	-	40	60	-	-	100	6
BSE 1101	Basic Circuit Theory & Network Analysis	4	-	4	40	60	20	30	150	6
Generic Elective – II										
BSM 1202	Differential Equation	5	1	-	40	60	-	-	100	6
BSE 1201	Semiconductor Devices	4	-	4	40	60	20	30	150	6
Generic Elective – III										
BSM 1303	PDE and System of ODE	5	1	-	40	60	-	-	100	6
BSE 1302	Digital Electronics	5	1	-	40	60	-	-	100	6
Generic Elective – IV										
BSM 1401	Numerical Methods	5	1	-	40	60	-	-	100	6
BSE 1402	Signal Systems	5	1	-	40	60	-	-	100	6

Discipline Specific Elective – I										
BSC 1551	Microprocessor	5	1	-	40	60	20	30	150	6
BSC 1552	Data Mining	5	1	-	40	60	-	-	100	6
BSC 1553	Big Data Analysis	5	1	-	40	60	-	-	100	6
Discipline Specific Elective – II										
BSC 1554	Network Programming	5	1	-	40	60	-	-	100	6
BSC 1555	Cloud Computing	5	1	-	40	60	-	-	100	6
BSC 1556	System Programming	5	1	-	40	60	-	-	100	6
Discipline Specific Elective – III										
BSC 1651	Information Security	5	1	-	40	60	-	-	100	6
BSC 1652	Digital Image Processing	5	1	-	40	60	-	-	100	6
BSC 1653	Soft Computing	5	1	-	40	60	-	-	100	6
Discipline Specific Elective – IV										
BSC 1654	Machine Learning	5	1	-	40	60	-	-	100	6
BSC 1655	Introduction to Data Science	5	1	-	40	60	-	-	100	6
BSC 1656	Dissertation	-	-	-	-	-	-	100	100	6

Skill Enhancement Course – I										
BSM 1301	LaTeX and HTML	1	-	2	40	60	50	-	150	2
BSC 1311	Internet Technologies	5	1	-	40	60	-	-	100	6
Skill Enhancement Course – II										
BSC 1411	Linux / Unix Programming	1	-	2	40	60	50	-	150	2
BSC 1412	Programming in MATLAB	1	-	2	40	60	50	-	150	2