

BABU BANARASI DAS UNIVERSITY, LUCKNOW

B. Sc. (Honours) Electronic Science

COURSE STRUCTURE (Under CBCS)

Course Category	Course Code	Course Name	Teaching			Evaluation				Credits	
						Theory		Lab/ Seminar/ Viva voce/ Dissertation			Total
			L	T	P	CIA	ESE	CIA	ESE		
SEMESTER – I											
Core	BSE 1101	Basic Circuit Theory and Network Analysis	4		4	40	60	20	30	150	6
Core	BSE 1102	Mathematics Foundation for Electronics	5	1		40	60	-	-	100	6
GE		Generic Elective - I									6
AECC	BSAE 1101	Communicative English	2	-	-	40	60	-	-	100	2
GP	BSGP11	General Proficiency						100	-	100	1
											21
SEMESTER – II											
Core	BSE 1201	Semiconductor Devices	4	-	4	40	60	20	30	150	6
Core	BSE 1202	Applied Physics	5	1	-	40	60	-	-	100	6
GE		Generic Elective - II									6
AECC	BSAE1201	Environmental Studies	2	-	-	40	60	-	-	100	2
GP	BSGP12	General Proficiency				-	-	100	-	100	1
											21
SEMESTER – III											
Core	BSE 1301	Electronics Circuits	5	1	-	40	60	-	-	100	6
Core	BSE 1302	Digital Electronics	4	-	4	40	60	20	30	150	6
Core	BSE 1303	C Programming and Data Structures	4	-	4	40	60	20	30	150	6
GE		Generic Elective - III									6
SEC		Skill Enhancement Course - I									2
GP	BSGP13	General Proficiency	-	-	-	-	-	100	-	100	1
											27
SEMESTER – IV											
Core	BSE 1401	Operational Amplifiers and Applications	4	-	4	40	60	20	30	150	6
Core	BSE 1402	Signals & Systems	5	1	-	40	60	-	-	100	6
Core	BSE 1403	Electronic Instrumentation	4	-	4	40	60	20	30	150	6
GE		Generic Elective - IV									6
SEC		Skill Enhancement Course - I									2
GP	BSGP14	General Proficiency	-	-	-	-	-	100	-	100	1
											27
SEMESTER – V											
Core	BSE 1501	Microprocessor and Microcontrollers	4		4	40	60	20	30	150	6
Core	BSE 1502	Electromagnetic	5	1	-	40	60	-	-	100	6
DSE	BSE 1551	Discipline Specific Elective - I	5	1	-	40	60	-	-	100	6
DSE	BSE 1552	Discipline Specific Elective - II	5	1	-	40	60	-	-	100	6
Lab	BSS15	Seminar	-	-	-			100	-	100	2
											26
SEMESTER – VI											
Core	BSE 1601	Communication Electronics	4		4	40	60	20	30	150	6
Core	BSE 1602	Photonics	5	1	-	40	60	-	-	100	6
DSE	BSE 1651	Discipline Specific Elective - III	5	1	-	40	60	-	-	100	6
DSE	BSE 1652	Discipline Specific Elective - IV	5	1	-	40	60	-	-	100	6
Lab	BSV16	Vice Voce	-	-	-	-	-	-	100	100	2
											26

ELECTIVE COURSES – B. Sc. (Honours) Electronics 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
BSC 1102	Computer System Architecture	5	1		40	60			100	6
Generic Elective – II										
BSM 1202	Differential Equations	5	1	-	40	60	-	-	100	6
BSC 1202	Discrete Structure	5	1		40	60			100	6
Generic Elective – III										
BSM 1303	PDE and System of ODE	5	1	-	40	60	-	-	100	6
BSC 1301	Operating Systems	5	1		40	60	20	30	150	6
Generic Elective – IV										
BSM 1401	Numerical Methods	5	1	-	40	60	-	-	100	6
BSC 1403	Database Management Systems	5	1		40	60	20	30	150	6
Discipline Specific Elective – I										
BSE 1551	Control Systems	5	1	-	40	60	-	-	100	6
BSE 1552	Semiconductor Fabrication and Characterization	5	1	-	40	60	-	-	100	6
BSE 1553	Electrical Machines	5	1	-	40	60	-	-	100	6
Discipline Specific Elective – II										
BSE 1554	Digital Signal Processing	5	1	-	40	60	-	-	100	6
BSE 1555	Power Electronics	5	1	-	40	60	-	-	100	6
BSE 1556	Nanoelectronics	5	1	-	40	60	-	-	100	6
Discipline Specific Elective – III										
BSE 1651	Transmission Lines, Antenna and Wave Propagation	5	1	-	40	60	-	-	100	6
BSE 1652	Basic VLSI Design	5	1	-	40	60	-	-	100	6
BSE 1653	Embedded Systems	5	1	-	40	60	-	-	100	6
Discipline Specific Elective – IV										
BSE 1655	Computer Networks	5	1	-	40	60	-	-	100	6
BSE 1656	Modern Communication Systems	5	1	-	40	60	-	-	100	6
BSE 1657	Dissertation	-	-	12	40	60	-	-	100	6
Skill Enhancement Course – I										
BSS 1301	LaTeX and HTML	1	-	2	40	60	50	-	150	2
BSS 1311	Internet Technologies	2	-	-	40	60	-	-	100	2
Skill Enhancement Course – II										
BSS 1411	Linux / Unix Programming	1	-	2	40	60	50	-	150	2
BSS 1421	Programming in MATLAB	1	-	2	40	60	50	-	150	2