



BRAINWARE UNIVERSITY
SCHOOL OF COMPUTATIONAL & APPLIED SCIENCES
DEPARTMENT OF CYBER SCIENCE & TECHNOLOGY
Bachelor of Science (Honours) in Advanced Networking and Cyber Security - 2022
(As per UGC CBCS Guideline)

Semester I

Course Code	Course Name	Course Type	Hours per week	Credits	Total Marks
			L - T - P		
HU101	English Communication	AECC-1	1 - 0 - 0	1	50
HU191	English Communication Lab	AECC-1	0 - 0 - 2	1	50
BNCS101	Computer Fundamentals & Database	CC-1	4 - 0 - 0	4	100
BNCS191	Database and Programming Fundamentals Lab	CC-1	0 - 0 - 4	2	100
BNCS102	Hardware and Operating Systems	CC-2	4 - 0 - 0	4	100
BNCS192	Hardware and Operating Systems Lab	CC-2	0 - 0 - 4	2	100
GE**	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-1	4-0-0/ 5-1-0	4/5	200/100
GE**	Generic Elective -1 (Practical/Tutorial)	GE-1	0 - 0 - 4	2/1	
Total				20	700/600

Semester-II

Course Code	Course Name	Course Type	Hours per week	Credits	Total Marks
			L - T - P		
ENV201	Environmental Studies	AECC-2	2 - 0 - 0	2	100
BNCS201	Computer Networks	CC-3	4 - 0 - 0	4	100
BNCS291	Computer Networks Lab	CC-3	0 - 0 - 4	2	100
BNCS202	Linux Administration I	CC-4	4 - 0 - 0	4	100
BNCS292	Linux Administration I Lab	CC-4	0 - 0 - 4	2	100
GE**	Generic Elective-2 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-2	4-0-0/ 5-0-0	4/5	200/100
GE**	Generic Elective -2 (Practical/Tutorial)	GE-2	0 - 0 - 4	2/1	
Total				20	700/600

Total marks: 1400/1200
Total credit: 40



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Semester-III

Course Code	Course Name	Course Type	Hours per week	Credits	Total Marks
			L - T - P		
BNCS301	Switching and Routing	CC-5	4 - 0 - 0	4	100
BNCS391	Switching and Routing Lab	CC-5	0 - 0 - 4	2	100
BNCS302	Infrastructure Management Services	CC-6	5 - 1 - 0	6	100
BNCS303	Vulnerability Analysis / Penetration Testing	CC-7	4 - 0 - 0	4	100
BNCS393	Vulnerability Analysis / Penetration Testing Lab	CC-7	0 - 0 - 4	2	100
BNCS381	Industrial Training – I	SEC-1		4	100
GE**	Generic Elective-3 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-3	4 - 0 - 0/ 5 - 0 - 0	4/5	200/100
GE**	Generic Elective-3 (Practical/Tutorial)	GE-3	0 - 0 - 4/ 0 - 1 - 0	2/1	
Total				28	800/700

Semester-IV

Course Code	Course Name	Course Type	Hours per week	Credits	Total Marks
			L - T - P		
BNCS401	Digital Forensics	CC-8	4 - 0 - 0	4	100
BNCS491	Digital Forensics Lab	CC-8	0 - 0 - 4	2	100
BNCS402	Windows Server Administration I	CC-9	4 - 0 - 0	4	100
BNCS492	Windows Server Administration I Lab	CC-9	0 - 0 - 4	2	100
BNCS403	Introduction to Modern Technologies	CC-10	5 - 1 - 0	6	100
BNCS481	Industrial Training – II	SEC-2		4	100
GE**	Generic Elective-4 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE-4	4 - 0 - 0/ 5 - 0 - 0	4/5	200/100
GE**	Generic Elective-4 (Practical/Tutorial)	GE-4	0 - 0 - 4/ 0 - 1 - 0	2/1	
Total				28	800/700

Total marks: 1600/1400

Total credit: 56



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Semester-V

Course Code	Course Name	Course Type	Hours per week	Credits	Total Marks
			L - T - P		
BNCSC501	Security Operations Center (SOC)	CC-11	4-0-0	4	100
BNCSC591	Security Operations Center (SOC) Lab	CC-11	0-0-4	2	100
BNCSC502	Linux Administration II	CC-12	4-0-0	4	100
BNCSC592	Linux Administration II Lab	CC-12	0-0-4	2	100
BNCSD501	A. Security Incident Handling B. Voice over Internet Protocol Professional C. Security Specialist	DSEC-1	4-0-0	4	100
BNCSD591	A. Security Incident Handling Lab B. Voice over Internet Protocol Professional Lab C. Security Specialist Lab	DSEC-1	0-0-4	2	100
BNCSD502	A. Digital Watermarking and Steganography B. Block Chain & Cryptocurrency C. Cryptography & Network Security	DSEC-2	5-1-0	6	100
Total				24	700

Semester-VI

Course Code	Course Name	Course Type	Hours per week	Credits	Total Marks
			L - T - P		
BNCSC601	Cyber Security Laws, Standards and IPR	CC-13	5 - 1 - 0	6	100
BNCSC602	Windows Server Administration II	CC-14	4 - 0 - 0	4	100
BNCSC692	Windows Server Administration II Lab	CC-14	0 - 0 - 4	2	100
BNCSD603	A. Cloud Computing B. Firewall Technology	DSEC-3	4 - 0 - 0	4	100
BNCSD693	A. Cloud Computing Lab B. Firewall Technology Lab	DSEC-3	0 - 0 - 4	2	100
BNCSD681	Project	DSEC-4		6	100
Total				24	600

Total marks: 1300
Total credit: 48