

B Sc CYBER SECURITY

(Three Years Regular Programme)
(For those who joined since 2021-22)

PROGRAMME SPECIFIC OUTCOMES:

PSO 1: To develop knowledge and skills in the field of Cyber Security and develop skilled cyber security professionals who are adept at working in variety of settings

PSO 2: Able to meet the challenges and reap the rewards of interdisciplinary team work and practice with an expertise in academics to design and implement security solutions

PSO 3: To exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an Organization.

PSO 4: To understand key terms and concepts in Cryptography, Governance and Compliance and develop cyber security strategies and policies

PSO 5: To understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.

PROGRAMME STRUCTURE

Se m	Par t	Subject Code	Cours e	Subject Title	Hr s/ wk	Cred it	CIA Mar ks	ESE Mar ks	Tota l Mar ks
I	I	HBLT11/ HBLA11/ HBLIA11/ HBLH11	Langua ge I	Tamil I/ Basic Arabic I/ Intermediate Arabic I/ Hindi I	6	6	40	60	100
	II	HBLF12/ HBLG12	Langua ge II	Functional English I / General English I	6	6	40	60	100
	III	HBCYC11	Core I	Fundamental s of Computers	5	4	40	60	100
		HBCYC12 P	Core II	Office Automation Lab	5	4	40	60	100

		HBCYA13	First Allied I	Discrete Mathematics	6	5	40	60	100	
	IV	HBCYE14 P	Skill Based Elective	Python Lab	2	2	-	50	50	
Total					30	27	200	350	550	
II	I	HBLT21/ HBLA21/ HBLIA21/ HBLH21	Language I	Tamil II/ Basic Arabic II/ Intermediate Arabic II/ Hindi II	6	6	40	60	100	
	II	HBLF22/ HBLG22	Language II	Functional English II /General English II	6	6	40	60	100	
	III	HBCYC21	Core III	Data Structures using C Language	4	3	40	60	100	
		HBCYC22 P	Core IV	Programming in C Lab	4	3	40	60	100	
		HBCYA23	First Allied II	Basic Statistics	6	5	40	60	100	
	IV	HBCYE24 P	Skill Based Elective	Linux & Shell Programming Lab	2	2	-	50	50	
		HBES2	General Interest Course I	Environmental Studies	2	2	-	50	50	
		HBCYX20	Extra Credit	*Online Certification	-	2	-	-	-	
	Total					30	27+2	200	400	600
	III	III	HBCYC31	Core V	Database Security	6	4	40	60	100
HBCYC32 P			Core VI	RDBMS Lab	6	4	40	60	100	
HBCYA33			Second Allied I	Digital Electronics	4	3	40	60	100	
HBCYA34 P			Second Allied II	Digital Electronics Lab	2	2	40	60	100	
		HBCYE35 P	Skill Based	Web Designing	3	2	-	50	50	

IV		Elective	Lab (HTML & Scripting Language)						
		Non-Major Elective		4	2	-	50	50	
	HBHR3	General Interest Course II	Human Rights	3	2	-	50	50	
V	HBXTN3	Extension Activities	NSS / CSS	2	2	100	-	100	
-	HBCYX3P / HBCYX30	Extra Credit	Design and Drafting Lab (AutoCAD Lab) / *Online Certification	-	2	-	100	100	
Total				30	21+2	260	390 + 100	650 + 100	
IV	III	HBCYC41	Core VII	Cryptography & Network Security	5	4	40	60	100
		HBCYC42	Core VIII	Principles of Cyber Security	5	4	40	60	100
		HBCYC43 P	Core IX	Cryptography & Network Security Lab	5	4	40	60	100
		HBCYA44	Second Allied III	Microprocessor	4	3	40	60	100
		HBCYA45 P	Second Allied IV	Microprocessor Lab	2	2	40	60	100
	IV	HBCYE46 P	Skill Based Elective	Visual Programming Lab	3	2	-	50	50
		HBVE4	General Interest Course III	Values and Ethics	2	2	-	50	50

			Non-Major Elective		4	2	-	50	50	
	-	HBCYX4/ HBCYX40	Extra Credit	Multimedia / *Online Certification	-	2	-	100	100	
Total					30	23+2	200	450+100	650+100	
V	III	HBCYC51	Core X	Programming in Java	5	4	40	60	100	
		HBCYC52 P	Core XI	Programming in Java Lab	5	4	40	60	100	
		HBCYC53	Core XII	Ethical Hacking	5	4	40	60	100	
		HBCYE5A	Elective I	a. Information Security / b. Data Mining & Warehousing	4	4	40	60	100	
		HBCYE5B								
		HBCYE5C / HBCYE5D	Elective II	a. Operating System Security / b. Cyber Forensics	5	4	40	60	100	
	IV	HBCYE54 P	Skill Based Elective	PHP LAB	2	2	-	50	50	
		HBWS5	General Interest Course IV	Women Studies	3	2	-	50	50	
		-	HBCYX50	Extra Credit	*Online Certification	-	2	-	-	-
					Library/Browsing	1	-	-	-	-
Total					30	24+2	200	400	600	
VI	III	HBCYC61	Core XIII	Wireless Security	5	4	40	60	100	
		HBCYC62	Core XIV	Cyber Law	5	4	40	60	100	
		HBCYC63	Core XV	Malware Analysis	5	4	40	60	100	
		HBCYC64 PW	Core XVI	Project	6	4	40	60	100	

	HBCYE6A / HBCYE6B	Elective III	a. Cloud Computing & Security/ b. Intellectual Property Rights	5	5	40	60	100
IV	HBCYE65 P	Skill Based Elective	Multimedia Lab	2	2	-	50	50
-	HBS6D6	Extra Credit	Skills for Employability Development	-	2	100	-	100
			Library/Browsing	2	-	-	-	-
Total				30	23+2	200 + 100	350	550 + 100
Grand Total				180	145+10	1260 + 100	2340 + 200	3600 + 300

*For Online certification, credit alone will be assigned on submission of certificate obtained through appearing for Online Examination from edX, Swayam, Spoken Tutorial, NPTEL or Coursera, etc. approved by the department