The state of the s		Harcourt Butler Technical University Kanpur				I MID SEM (2023-24)	
Branch		MCA Program		Program		MCA	
Course Name		Cryptography and Network Security Semester		IV		V	
Course Code		ECA-582 Year		II		II	
Time:		1.00 Hr Maximum		Maximum M	Marks 15		15
Knowledge Level (KL)		K1: Remembering	K3: Applying		K5: Evaluating		
		K2: Understanding	K4: Analyzing		K6: Creating		
Note: A	Answer All Q	uestions			1		
Q. No		Questions			Marks	COs	KL
1	Discuss about Playfair cipher technique? Let the plaintext is "COMMUNICATION" and the keyword is "COMPUTER", find ciphertext using Playfair technique.					CO1	К3
2	Differentiate between Electronic Code Book (ECB) and Cipher Block Chaining (CBC) modes of operation.					CO1	K4
3	Draw a block diagram of DES (Data Encryption Standard) algorithm. Also explain its functionality.					CO1	K2
4	Find the GCD of (2740, 1760) using Euclid's Algorithm.					CO2	К3
5	Discuss about Euler's and Fermat's theorem with example.					CO2	K2

		Understand and deploy cryptographic technique to secure data in networks
	CO1	
	CO2	Analyze the vulnerabilities in any computing systems and design a security solution.
Course		Understand and use standard algorithms for confidentiality, integrity and authenticity.
Outcomes	CO3	
Outcomes	CO4	Apply various key distribution and management schemes in network system.
		Apply security protocols in various IT applications.
	CO5	