



Subject	Information and Network Security												17CS743		
COURSE OUTCOMES															
CO No.	On completion of this course, students will be able to:												Cognitive Level		
17CS743.1	Analyze the fundamental theory of cryptography in network security												L4		
17CS743.2	Analyze the digital Security lapses, Hash, MAC algorithms to ensure integrity of data.												L4		
17CS743.3	Illustrate the fundamentals of entity authentication, passwords, Cryptographic protocols, random number generation												L2		
17CS743.4	Illustrate the need of Key management												L2		
17CS743.5	Analyze the different cryptographic applications												L4		
CO-PO-PSO MAPPING															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
17CS743.1	1	-	-	-	1	-	-	-	-	-	-	-	1	-	1
17CS743.2	1	2	2	1	-	-	-	-	-	-	-	-	1	-	1
17CS743.3	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1
17CS743.4	1	-	2	-	-	-	-	-	-	-	-	-	-	-	1
17CS743.5	1	1	1	1	-	-	-	-	-	-	-	1	1	-	1
Avg. Mapping	1.0	1.3	1.7	1.0	1.0	-	-	-	-	-	-	1.0	1.0	-	1.0

CO-PO-PSO JUSTIFICATION

CO No.	PO/ PSO	CL	Justification
17CS743 .1	PO1	1	Slightly having the Knowledge of the fundamental concepts of cryptography helps in solving complex engineering problems.
	PO5	1	Slightly Identifying the tools for information security.
	PSO 1	1	Slightly the student will study of fundamental concepts of cryptography acquire skills to design, analyze and develop algorithms and implement them using high-level programming languages.
	PSO 3	1	Slightly students will understand the theory of cryptography in information network security.
17CS743 .2	PO1	1	Slightly having the Knowledge of the fundamental concepts of Tiger Hash and MAC Algorithms that helps in solving complex engineering problems.
	PO2	2	Moderately the student will know Principles of mathematics and engineering sciences that are used in various aspects of Algorithms.
	PO3	2	Moderately recognizes the need for analysis to ensure the integrity of data.
	PO4	1	Slightly the student will study the statistical concepts and inferences that can be used to overcome the digital security lapses.
	PSO 1	1	Slightly the student will study of fundamental concepts of Tiger Hash and MAC Algorithm acquire skills to design, analyze and develop algorithms and implement them using high-level programming languages.
	PSO 3	1	Slightly students will understand the working principles of Tiger Hash for data integrity.
17CS743 .3	PO1	1	Slightly having the Knowledge of the fundamental concepts of entity authentication, passwords and cryptographic protocols that helps in solving complex engineering problems.
	PO2	1	Slightly the student will know Principles of mathematics and engineering sciences that are used in various aspects of Random number generation and entity authentication.
	PSO 3	1	Slightly students will understand the concepts of random number generation and cryptographic protocols for entity authentication
17CS743 .4	PO1	1	Slightly having the Knowledge of the fundamental concepts of key management in entity authentication, that helps in solving complex engineering problems.

	PO3	2	Moderately the student using the knowledge of statistical concepts will be able to solve the problems.
	PSO 3	1	Slightly students will understand the theory of cryptography in information network security.
17CS743 .5	PO1	1	Slightly having the Knowledge of the fundamental concepts of cryptographic applications that helps in solving complex engineering problems.
	PO2	1	Slightly the student will know Principles of mathematics and engineering sciences that are used in various aspects of Cryptology, Random number generation, entity authentication and key management.
	PO3	1	Slightly the student using the knowledge of statistical concepts will be able to solve the problems.
	PO4	1	Slightly the student will study the statistical concepts and inferences that can be used in cryptographic application.
	PO1 2	1	Slightly the students will become aware of the need for lifelong learning and the continued upgrading the knowledge of cryptography and its application.
	PSO 1	1	Slightly the student will study cryptography and its application to acquire skills for understanding the information security.
	PSO 3	1	Slightly students will understand the theory of cryptography in information network security.

Prepared by:

Approved by:

(Jayashree/Rachitha)

(H.o.D)