[As per Choice I	Based Credit S:	WORK SECURITY ystem (CBCS) scheme] ic year 2016 -2017) - VII	
Subject Code	15CS743	IA Marks	20
Number of Lecture Hours/Week	3	Exam Marks	80
Total Number of Lecture Hours	40	Exam Hours	03
	CREDITS -		
Course objectives: This course will	l enable students	s to	
 Analyze the cryptographic p Summarize the digital securi Indicate the location of a sec 	rocesses. ty process.	REC der Glack Miller der Scharft von der der Scharft von der Scharft von Scharft von Filte zu West Ausgewegen	AANNEE 19 GER VAN DE DE LEGER VAN DE LEGER V
Module – 1			Teachin Hours
Introduction. How to Speak Crypto. Cryptanalysis of a Simple Sub Transposition Cipher. One-time P Ciphers of the Election of 1876 Cryptography. Taxonomy of Cryptan Module – 2.	ostitution. Defi Pad. Project VI 5. Modern Cry	inition of Secure. Do	pher. 8 Hours
What is a Hash Function? The Birtho Tiger Hash. HMAC. Uses of Hash Other Crypto-Related Topics. Secre	Functions, On	line Ride Snam Dadue	8 Hours
Texas Hold 'em Poker. Generating R Module – 3	andom Bits. Info	ormation Hiding.	bers.
Random number generation Prov	nic password tographic Prote	schemes Zero-knowle	edge
Module – 4			
Key management fundamentals Key establishment Key storage Key usage Management Certification of public management models Alternative appr	ge Governing k keys The cer	ev management Publical	Kay
Module – 5			The second secon
Cryptographic Applications Cryptog vireless local area networks Cryp Cryptography for secure payment or proadcasting Cryptography for identit	otography for i card transaction y cards Cryptog	mobile telecommunicati	aira
Course outcomes: The students shou			
Analyze the Digitals security lands and a file.			
Illustrate the need of key mana	igement		
Question paper pattern: The question paper will have ten quest	tions		
here will be 2 questions from each m	uons.		
ach question will have questions cover	odule.		

Each question will have questions covering all the topics under a module.

The students will have to answer 5 full questions, selecting one full question from each module.

Text Books:

- 1. Information Security: Principles and Practice, 2nd Edition by Mark Stamp Wiley
- 2. Everyday Cryptography: Fundamental Principles and Applications Keith M. Martin Oxford Scholarship Online: December 2013

Reference Books:

1. Applied Cryptography Protocols, Algorithms, and Source Code in C by Bruce Schneier

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