[As per Choice E	Based Credit Syom the academic	WORK SECURITY stem (CBCS) scheme c year 2016 -2017)			
Subject Code	SEMESTER -				
	15CS743	IA Marks	20	0	
Number of Lecture Hours/Week	3	Exam Marks	80	0	
Total Number of Lecture Hours	40	Exam Hours	03	Ø.	
C 11 m.:	CREDITS -				
Course objectives: This course will		to			
 Analyze the cryptographic pr 					
 Summarize the digital securit 	ty process.				
Indicate the location of a security and a secu	urity process in t	he given system			
Module – 1				Teaching	
Introduction. How to Speak Crypto.				Hours	
Cryptanalysis of a Simple Sub Transposition Cipher. One-time P Ciphers of the Election of 1876 Cryptography. Taxonomy of Cryptan	ad. Project VE . Modern Cryr	NONA. Codebook C.	inher	V	
Module – 2. What is a Hash Function? The Birtho		1 10 10	J		
Tiger Hash. HMAC. Uses of Hash Other Crypto-Related Topics. Secre Texas Hold 'em Poker. Generating Ramodule – 3	et Sharing. Key andom Bits. Info	Escrow. Random Num rmation Hiding.	nbers.		
Random number generation Provauthentication Passwords Dynam mechanisms Further reading Crypt objectives to a protocol Analysing establishment protocols Module – 4	tic password tographic Protoc	schemes Zero-knowled Protocol basics	ledge From	8 Hours	
Key management fundamentals Key establishment Key storage Key usage Management Certification of public management models Alternative approximation	ge Governing ke keys The cert	y management Public-	-Kev	8 Hours	
Module – 5					
Cryptographic Applications Cryptog wireless local area networks Cryp Cryptography for secure payment or proadcasting Cryptography for identit	stography for n card transaction y cards Cryptogr	nobile telecommunicat s Cryptography for v	tions	8 Hours	
Course outcomes: The students shou					
Analyze the Digitals security 1	1.77				
Illustrate the need of key mana	igement				
Question paper pattern: The question paper will have ten quest There will be 2 questions from each meach question will have questions cov The students will have to answer 5 full module.	odule. ering all the topi	cs under a module. cting one full question f	from ea	nch	

Text Books:

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

dates

Reference Books:

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

Stehn! H.O.D.

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