

AMIRAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER ENGINEERING

TERM DATE: 20 JUNE -2016 - 21 OCTOBER - 2016

HOURS	DETAILS OF TOPIC TO BE COVERED	PLANNED DATES	ACTUAL DATES
I	UNIT 1		
1	Symmetric Cipher Model	20/6/2016	
2	Cryptography		
3	Cryptanalysis		
4	Attacks : Active attacks	TO	
5	Passive attacks		
6	Substitution techniques		
7	Transposition techniques	29/6/2016	
II	UNIT 2		
8	Stream ciphers	1/7/2016	
9	block ciphers		
10	Block Cipher structure		
11	Data Encryption standard (DES)		
12	Example of DES	TO	
13	Example of DES		
14	strength of DES		
15	Design principles of block cipher		
16	AES with structure		
17	AES transformation functions	22/7/2016	
III	UNIT 3		
18	Multiple encryption and triple DES	25/7/2016	
19	Electronic Code Book		
20	Cipher Block Chaining Mode	TO	
21	Cipher Feedback mode		
22	Output Feedback mode		
23	Counter mode	29/7/2016	
IV	UNIT 4		
24		1/9/2016	
25	Application of Public Key Cryptosystems		
26	Requirements of Public Key Cryptosystems		
27	Cryptanalysis		
28	RSA algorithm	TO	
29	RSA algorithm		
30	Its computational aspects and security		
31	Diffie-Hillman Key Exchange algorithm		

32	Diffie-Hillman Key Exchange algorithm		
33	Man-in-Middle attack	15/9/2016	
V	UNIT 5		
34	Cryptographic Hash Functions	16/9/2016	
35	Application of Cryptographic Hash Functions		
36	Simple hash	TO	
37	Hash functions based on Cipher Block Chaining		
38	Secure Hash Algorithm (SHA)	21/9/2016	
VI	UNIT 6		
39	Message Authentication Codes	22/9/2016	
40	its requirements and security		
41	MACs based on Hash Functions	TO	
42	MACs based on Hash Functions		
43	Macs based on Block Ciphers	26/9/2016	
VII	UNIT 7		
44	Digital Signature	28/9/2016	
45	its properties		
46	requirements and security	TO	
47	various digital signature schemes (Elgamal and Schnorr)		
48	NIST digital Signature algorithm	29/9/2016	
VIII	UNIT 8		
49	Key management and distribution	30/9/2016	
50	symmetric key distribution using symmetric encryption		
51	symmetric key distribution using asymmetric encryptions	TO	
52	Distribution of public keys		
53	X.509 certificates		
54	Public key infrastructure	5/10/2016	
IX	UNIT 9		
55	Remote user authentication with symmetric encryption	6/10/2016	
56	Remote user authentication with asymmetric encryption	TO	
57	Kerberos	10/10/2016	
X	UNIT 10		
58	Web Security threats	13/10/2016	
59	Web Security approaches		
60	SSL architecture		

61	SSL protocol	TO 14/10/2016	
62	Transport layer security		
63	HTTPS		
64	SSH		

