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Subject Name: -CIS

Branch/Semester: - 7th Sem SecA

Subject Code:-CSE-419N

Sr. No.	Lecture	Topics To Be Covered	Planned on	Covered On	Remarks
1	L 1	Unit I: Basics of Cryptography: Introduction to Computer Security	18.7.19		
2	L 2	Principles of Computer Security	19. 7.19		
3	L 3	Introduction to cryptography	22. 7.19		
4	L 4	Security threats:Virus	23. 7.19		
5	L 5	Security threats:Trojen Horse, Worm	25. 7.19		
6	L 6	Security attacks:Active and Passive	26. 7.19		
7	L 7	Types of security attacks	29.7.19		
8	L 8	Content Beyond Syllabus: Antivirus	30.7.19		
9	L 9	Types of cryptography	1.8.19		
10	L 10	Classical cryptography and their cryptanalysis:Substitution techniques	2.8.19		
11	L 11	Classical cryptography and their cryptanalysis:Substitution techniques	5.8.19		
12	L 12	Classical cryptography and their cryptanalysis:Transposition techniques	6.8.19		
13	L 13	Perfect secrecy	8.8.19		
14	L 14	Shannon's theorem	9.8.19		
15	L 15	Stream ciphers	12.8.19		
16	L 16	Unit II: Authentication Mechanism and Security Algorithms: Access control mechanism	13.8.19		
17	L 17	Discretionary v/s mandatory access control	16.8.19		

18	L 18	Pseudorandom permutations	19.8.19		
19	L 19	Practical block ciphers (3-DES, AES)	20.8.19		
20	L 20	Content Beyond Syllabus:IDEA	22.8.19		
21	L 21	RSA Algorithm	23.8.19		
22	L 22	RSA:Modes of operation	27.8.19		
23	L 23	Message Authentication Codes(MAC):Functions	29.8.19		
24	L 24	MACs:HMAC,CMAC	30.8.19		
25	L 25	Hash functions-Introduction	2.9.19		
26	L26	Hash functions-Tiger Hash	3.9.19		
27	L 27	Gear hash	5.9.19		
28	L 28	Pseudorandom generators	6.9.19		
29	L 29	Public key infrastructure	9.9.19		
30	L 30	Unit III: Key Exchange Protocols:CCA-secure encryption	10.9.19		
31	L 31	Diffie-Hellman key exchange	12.9.19		
32	L 32	Public key crypto systems (El Gamal, Paillier)	13.9.19		
33	L 33	Public key crypto systems (Rabin, Goldwasser)	16.9.19		
34	L34	Key exchange protocols	19.9.19		
35	L 35	PGP:Pretty Good Privacy	26.9.19		
36	L 36	Kerberos	27.9.19		
37	L 37	Content Beyond Syllabus-KDC Protocols	30.9.19		
38	L 38	IPSEC/VPN	1.10.19		
39	L 39	IPSEC/VPN	4.10.19		
40	L 40	SSL	7.10.19		

41	L 41	S/MIME:Certificate	8.10.19		
42	L 42	S/MIME:Message Processing	10.10.19		
43	L 43	PKCSv1.5	11.10.19		
44	L 44	PKCSv1.5	14.10.19		
45	L 45	Unit IV: Digitized Security: Digital signatures:Introduction	15.10.19		
46	L 46	Digital signatures:Message Digest	17.10.19		
47	L 47	Digital signatures:MD5	18.10.19		
48	L 48	Secure hash algorithm(SHA)	24.10.19		
49	L 49	SHA1	25.10.19		
50	L 50	Rabin finger print	31.10.19		
51	L 51	Digital certificates:Introduction	04.11.19		
52	L 52	Digital certificates:Concept,Creation	05.11.19		
53	L 53	Digital signature standards:DSS	07.11.19		
54	L 54	Firewall	08.11.19		
55	L 55	Intrusion detection systems	11.11.19		
56	L 56	Byzantine agreement	14.11.19		
57	L 57	Secure multiparty computation	15.11.19		
58	L 58	Secure multiparty computation	18.11.19		
59	L 59	Interactive proof systems	19.11.19		
60	L 60	Revision	20.11.19		