LESSON PLAN

Name of the Institute:	**C. V. Raman Polytechnic**
Department:	**Computer Science & Engineering**
Semester/Division/Branch:	**6th sem/CSE**
Subject Name with code:	Cryptography & Network Security(TH-1)
Total No. of Class (Required):	**60**
Faculty Name:	**Kshyamasagar Mahanta**

Class No.	*Brief description of the Topic/Chapter to be taught*	Remarks
1	The need for security, Security approaches	
2	Principles of security	
3	Types of attack	
4	Types of attack	
5	Revision	
6	Cryptography concepts: Plain text and cipher text	
7	Substitution techniques	
8	Substitution techniques	
9	Substitution techniques	
10	Substitution techniques	
11	Trans position techniques	
12	Trans position techniques	
13	Trans position techniques	
14	Encryption and decryption, Symmetric and Assymetric key cryptography	
15	Revision	
16	Symmetric and Assymetric key algorithms	
17	Symmetric key algorithm types	
18	Symmetric key algorithm types	

19	Overview of Symmetric key cryptography	
20	Data encryption standards	
21	Data encryption standards	
22	Data encryption standards	
23	Overview of Assymetric key cryptography	
24	Overview of Assymetric key cryptography	
25	The RSA algorithm	
26	The RSA algorithm	
27	Symmetric and Assymetric key cryptography	
28	Digital Signature	
29	Digital Signature	
30	Revision	
31	Dogital Certificates	
32	Dogital Certificates	
33	Private Key Management	
34	Private Key Management	
35	PKIX model	
36	PKIX model	
37	Public key cryptography standards	
38	Public key cryptography standards	
39	Public key cryptography standards	
40	Revision	
41	Internet security protocols, Basics	
42	Internet security protocols, Basics	
43	Secure socket layer	
44	Secure socket layer	
45	Transport layer security	

46	Transport layer security	
47	Secure Hypertext Transfer protocol(SHTTP)	
48	Time stamping protocol	
49	Secure electronic transaction	
50	Revision	
51	User Authentication basics, Password	
52	Authentication Tokens	
53	Certificate based authentication	
54	Certificate based authentication	
55	Biometric Authentication	
56	Network security	
57	Introduction to TCP/IP	
58	Firewall	
59	IP security	
60	VPN	

Signature of the Faculty

Signature of the H.O.D