

Name of Faculty : **Er. Arushi Bansal, Assistant professor**
Discipline : **CSE**
Semester : **8th**
Subject : **Information And Cyber Security (CSE-404-L)**
Lesson Plan Duration: **15 weeks (from January, 2021 to July, 2021)**
Work Load (Lecture/Practical) per week (in hours): Lectures-03hours, tutorial-02 hours

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	Hod	Director-principal
1 st	1	Overview of information security			
	2	Basic concepts			
	3	Cryptosystems			
	4	Cryptoanalysis			
2 nd	5	Cipher and cipher modes			
	6	Symmetric key cryptography			
	7	DES			
	8	AES			
3 rd	9	Asymmetric key cryptography			
	10	RSA algorithms			
	11	Key management protocols			
	12	Diffie hellman algorithm			
4 th	13	Digital signature			
	14	Public key infrastructure			
	15	Program security			
	16	Security problems in coding			
5 th	17	Malicious logic			
	18	Protection and its types			
	19	Database security			
	20	Access control			
6 th	21	Security and its types			
	22	Integrated threats			
	23	Defence mechanism			
	24	.net security			
7 th		-----Ist Minor Test-----			
8 th	25	User based security			
	26	Control access security			
	27	Form authentication			
	28	Privacy, intellectual property in cyberspace			
9 th	29	Professional ethics			
	30	Freedom of speech			
	31	Fair user and ethical hacking			
	32	Trademarks, internet fraud			
10 th	33	Electronic evidence			
	34	Forensic technology			
	35	Digital evidence collections			
	36	Tools and methods used in cybercrime			
11 th	37	Proxy servers and anonymizers			
	38	Phishing, password cracking			
	39	Keyloggers and spywares			
	40	Virus, worms , phishing and identity thefts			
12 th	41	Trojan horse and backdoors			
	42	Steganography, dos and dos attacks			
	43	SQL injections, bufferflow			
	44	Cybercrime and legal landscape around the world			
13 th	45	Cyberlaws, digital signatures			
	46	Indian IT act and amendments			
	47	Cybercrime and punishment			
	48	Cost of cybercrime and IPR issues			
14 th		-----2 nd Minor Test-----			
15 th	49	Web threats for organisations			
	50	Social computing			
	51	Associated challenges			
	52	Challenges for organisations			

