Lesson Plan

Faculty Name : Ankit
Subject   : Fundamentals of Information Security (OE/CSE/7-T)
Semester   : EE 6th SEM
Workload   : 03 hrs. /week

Week	Theory		Topic Covered Date and Remarks		
	Lecture- Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1.	1.	Overview of Information Security			
	2.	What is Information and why should be protect it?			
	3.	Information Security: Threats, Frauds, Thefts			
2.	4.	Malicious Hackers, Malicious Code			
	5.	Denial of Services Attacks			
	6.	Social Engineering - Vulnerability – Risk: Risk definition			
3.	7.	Types Risk – an introduction Business Requirements			
	8.	Information Security - Definitions Security Policies			
	9.	Tier1 (Origination Level), Tier2 (Function Level),			
4.	10.	Tier3 (Application/Device Level)			
	11.	Procedures, Standards, Guidelines			
	12.	Minor Test 1			
5.	13.	Information Asset Classification			
	14.	Why should we classify information?			
	15.	Information Asset: Owner, Custodian			
6.	16.	User - Information Classification			
	17.	Secret, Confidential, Private, Public			
	18.	Declassification, Reclassification			
7.	19.	Assignment			
	20.	Retention and Disposal of Information Assets			
	21.	Provide Authorization for Access			
8.	22.	Owner Custodian User			
	23.	Risk Analysis & Risk Management			
	24.	Risk Analysis Process			
9.	25.	Asset Definition - Threat Identification			
	26.	Assignment			
	27.	Minor Test 2			
10.	28.	Determine Probability of Occurrence			
	29.	Determine the Impact of the Threat			
	30.	Control Recommended Risk Mitigation			
11.	31.	Control Types – Categories			
	32.	Cost/Benefit Analysis			
	33.	Emerging Technologies Introduction to Cloud Computing: Concepts			
12.	34.	Fundamentals of Cloud Computing			
	35.	Types of clouds			
	36.	Security Design and Architecture- Concerns			
13.	37.	Internet of Things			
	38.	Overview of IoT - Key Features of IoT			
	39.	IoT Architecture			
14.	40.	Impact of IoT on Business			
	41.	Examples of IoT			
	42.	Advantages and Disadvantages of IoT			
15.	43.	IoT Hardware: IoT Sensors			
	44.	Wearable Electronics, Standard Devices - IoT Software			
	45.	IoT technology and Protocols			
16.	46.	IoT Common Issues - IoT applications Domains			
	47.	IoT Liability -IoT Security and Threats: Mitigation			
	48.	Minor Test 3			