

Bhoj Reddy Engineering College for Women: Hyderabad

Department of Computer Science and Engineering

Lesson plan of faculty member for the academic year 2016–17

Class: IV B Tech

Branch-Section: CSE-B

Semester: I

Subject: Information Security Assessments and Audits

Lectures per week: 4+1 (Tutorial)

Lecture Number	Topics to be covered	Date (s)
UNIT – I: Information Security Performance Metrics and Audit		
1	Security Metrics and Reporting	13 June 2016
2	Security Metrics and Reporting	14 June 2016
3	Common Issues	16 June 2016
4	Variances of Performance metrics	17 June 2016
5	Tutorial(G3,G2,G1)	13,15, 16 June 2016
6	Variances of Performance metrics	20 June 2016
7	Introduction to security audits	21 June 2016
8	Servers and storage devices	23 June 2016
9	Infrastructure and Networks	24 June 2016
10	Tutorial(G3,G2,G1)	20, 22, 23 June 2016
11	Communication Routes	27 June 2016
12	Information Security methodologies(Black box, white box and grey box)	28 June 2016
13	Phases of Information Security Audit and Strategies	30 June 2016
14	Ethics of an Information Security Auditor	1 July 2016
15	Tutorial(G3,G2,G1)	27, 29, 30 June 2016
16	Revision	4 July 2016
UNIT-II: Information Security Audit Tasks, Reports and Post Auditing Actions		
17	Pre-audit checklist	5 July 2016
18	Information Gathering	8 July 2016
19	Vulnerability Analysis	11 July 2016
20	Tutorial(G3,G2,G1)	4, 6, 7 July 2016
21	External Network security audit	12 July 2016
22	Internal network security audit	14 July 2016
23	Firewall security audit	15 July 2016
24	IDS security Auditing	18 July 2016
25	Tutorial(G3,G2,G1)	11, 13,14 July 2016
26	Social Engineering security Auditing	19 July 2016
27	Web application security Auditing	21 July 2016
28	Information Security Audit Deliverables & Writing Report	22 July 2016
29	Result analysis	25 July 2016
30	Tutorial(G3,G2,G1)	18, 20, 21 July 2016
31	Post Auditing Actions	26 July 2016
32	Report Retention	28 July 2016
UNIT-III: Vulnerability Management		
33	Information Security Vulnerabilities – Threats and Vulnerabilities	29 July 2016
34	Threats and Vulnerabilities	2 August 2016
35	Tutorial(G3,G2,G1)	25, 27, 28 July 2016
36	Human-based Social Engineering	4 August 2016
37	Computer-based Social Engineering	5 August 2016
38	Social Media Countermeasures	16 August 2016
39	Vulnerability Management	18 August 2016
40	Tutorial(G3,G2,G1)	3, 4 August 2016
41	Vulnerability Scanning	19 August 2016

42	Testing	22 August 2016
43	Threat management	23 August 2016
44	Remediation	26 August 2016
45	Tutorial(G3,G2,G1)	17, 18 August 2016
UNIT-IV: Information Security Assessments		
46	Vulnerability Assessment	29 August 2016
47	Classification	30 August 2016
48	Types of Vulnerability Assessment	1 September 2016
49	Vulnerability Assessment Phases	2 September 2016
50	Tutorial(G3,G2,G1)	22, 24, August 2016
51	Vulnerability Analysis Stages	6 September 2016
52	Characteristics of a Good Vulnerability Assessment Solutions & Considerations	8 September 2016
53	Vulnerability Assessment Reports – Tools and choosing a right Tool	9 September 2016
54	Information Security Risk Assessment	13 September 2016
55	Tutorial(G3,G2,G1)	29, 31, 1 September 2016
56	Risk Assessment	15 September 2016
57	Risk Treatment	16 September 2016
58	Risk Treatment	19 September 2016
59	Residual Risk	20 September 2016
60	Tutorial(G3,G2,G1)	8, 9 September 2016
61	Risk Acceptance, Risk Management Feedback Loops	22 September 2016
62	Risk Management Feedback Loops	23 September 2016
UNIT-V: Configuration Reviews		
63	Introduction to Configuration Management	26 September 2016
64	Configuration Management	27 September 2016
65	Tutorial(G3,G2,G1)	14, 15 September 2016
66	Configuration Management Requirements-Plan-Control	29 September 2016
67	Configuration Management Requirements-Plan-Control	3 October 2016
68	Tutorial(G3,G2,G1)	19, 21, 22 September 2016
69	Development of configuration Control Policies	4 October 2016
70	Testing Configuration Management	27 October 2016
71	Testing Configuration Management	28 October 2016
72	Revision	1 November 2016
73	Tutorial(G3,G2,G1)	26, 28, 29 September 2016
74	Revision	3 November 2016
75	Tutorial(G3,G2,G1)	3 October 2016
76	Tutorial(G3,G2,G1)	27 October 2016
77	Tutorial(G3,G2,G1)	2, 3 November 2016

Text books:

- 1. Assessing Information Security (strategies, tactics, logic and framework) by A Vladimirov, K.Gavrilenko, and A.Michajlowski**
- 2. “The Art of Computer Virus Research and Defense by Peter Szor.”**

Name and signature of the faculty: C Hari Priyanka ----

Name and signature of Head of the Department: Mrs. K Usha Rani ----