

Bhoj Reddy Engineering College for Women: Hyderabad

Department of Information Technology

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

Class: IV B.Tech

Branch-Section: IT-B

Semester: II

Subject: Storage Area Networks

Lectures per week: 4+1 (Tutorial)

Lecture Number	Topics to be covered	Date (s)
UNIT – I		
1	Introduction to Storage Area Networks	09 December 2016
2	Overview of Storage Area Networks	09 December 2016
3	Review data creation and the amount of data being created , Understand the value of data to a business	10 December 2016
4	Challenges in data storage and data management(Tutorial)	15 December 2016
5	Solutions available for data storage	16 December 2016
6	Core elements of a data centre infrastructure	16 December 2016
7	Role of each element in supporting business activities	17 December 2016
8	Hardware and Software components of the host environment(Tutorial)	22 December 2016
9	Key protocols and concepts used by each component	23 December 2016
10	Physical and logical components of a connectivity environment	23 December 2016
11	Major physical components of a disk drive and their function	24 December 2016
12	logical constructs of a physical disk(Tutorial)	29 December 2016
13	access characteristics and performance Implications	30 December 2016
UNIT-II		
14	Concept of RAID and its components	30 December 2016
15	RAID 0, RAID 1	31 December 2016
16	RAID 4, RAID 5 (Tutorial)	05 January 2017
17	RAID 0+1, RAID 1+0	06 January 2017
18	RAID 6, Compare and contra Hi integrated and modular storage systems	06 January 2017
19	High—Level architecture and working of an intelligent storage system	07 January 2017
20	Evolution of networked storage, Architecture(Tutorial)	12 January 2017
21	components, and topologies of FC-SAN	13 January 2017
22	IP-SAN	13 January 2017
23	Benefits of the different networked storage' options, understand the need for long-term achieving solutions	14 January 2017
24	how CAS fulfills the need, understand the appropriateness of the different networked storage options (Tutorial)	19 January 2017
UNIT-III		
25	List reasons for planned/unplanned outages and the impact of downtime	20 January 2017
26	Differentiate between business continuity (BC) and disaster recovery (DR)	20 January 2017
27	RTO and RPO	21 January 2017
28	Problems related to FM	27 January 2017
29	RTO and RPO	27 January 2017
30	Identify single points of failure in a storage infrastructure (Tutorial)	23 February 2017
31	List solutions to mitigate these failures.	25 February 2017
32	Revision(Tutorial)	02 March 2017
UNIT-IV		
33	Introduction to backup and Recovery	03 March 2017
34	Architecture of backup/recovery	03 March 2017
35	different backup/recovery topologies	04 March 2017
36	replication technologies(Tutorial)	09 March 2017
37	Role in ensuring information availability and business continuity	10 March 2017

38	Remote replication technologies	10 March 2017
39	Remote replication technologies	11 March 2017
40	their role in providing disaster recovery and business continuity capabilities(Tutorial)	16 March 2017
41	Revision	17 March 2017
UNIT-V		
42	Identify key areas to monitor in a data center	17 March 2017
43	Industry standards for data center monitoring and management,	18 March 2017
44	Key metrics to monitor for different components in a storage infrastructure(Tutorial)	23 March 2017
45	Key management tasks in a data center	24 March 2017
46	Information security	24 March 2017
47	Information security	25 March 2017
48	Critical security attributes for information systems(Tutorial)	30 March 2017
49	Storage security domains	31 March 2017
50	List and analyzes the common threats in each domain	31 March 2017
51	Revising the previous concepts(Tutorial)	06 April 2017
52	Virtualization technologies	07 April 2017
53	block-level and file-level virtualization technologies and processes.	07 April 2017
54	block-level and file-level virtualization technologies and processes.	08 April 2017
55	Revision (Tutorial).	13 April 2017

TEXT BOOK

1. EMC Corporation, Information Storage and Management, Wiley.

REFERENCE BOOKS

1. Robert Spalding, “Storage Networks: The Complete Reference”, TataMcGraw Hill, Osborne, 2003.
2. Marc Farley, “Building Storage Networks”, Tata McGraw Hill, Osborne, 2001.
3. Meeta Gupta, Storage Area Network Fundamentals, Pearson Education Limited, 2002.

Name and signature of the faculty: Ms. M.Sandhya Rani ----

Name and signature of Head of the Department: Mr. K.Sandeep Kumar ----