ITE200	9	Storage Technologies		L T P J C
				3 0 0 4 4
Pre-requisit	e	ITE1003		Syllabus version
G 01.1				1.0
Course Obj			1 1	1:
techr	ology	better understanding of guidelines, principles		ture used in storage
		an insight into the technologies in storage ma		
• To in	npart th	ne knowledge in designing secure storage syst	em	
Expected C	ourse (Outcome:		
1) Com	prehen	d the various concepts of information storage	systems.	
2) Desc	ribe va	rious mechanisms involved in storage system	s for different of	environments.
	erstand igemen	the logic in usage of RAID for data t.	protection for	effective storage
4) Learn	n and a	apply the concepts of intelligent storage in rea	l time informa	tion systems
5) Com	prehen	d the direct attached storage for SCSI systems	S.	
6) Anal	yze the	usage of storage area network for effective s	torage.	
7) Use t	he netv	work storage concepts and apply for effective	information ste	orage.
8) Unde	erstand	the characteristics of various storage technologies.	ogies.	
Student Lea	rning	Outcomes (SLO): 2, 5, 12		
		ear understanding of the subject related conce	pts and of cont	emporary issues
		gn thinking capability	1	1 2
	ng adaj	otive thinking and adaptability		
Module:1		luction to Information Storage and		6 hours
Information		gement e, Evolution of storage technology and archite	vactura Data a	antar infrastruatura
	_	nanaging information, Information lifecycle	ecture, Data Co	enter mirastructure,
Troy onamong	505 III I	managing information, information incorpore		
Module:2		ge System Environment		6 hours
		torage system environment, Disk drive com		
		laws of governing disk performance, Lo ments and disk performance	gical compon	ents of the Host,
Module:3		Protection using RAID	DATE 1	6 hours
	-	lementation aspects, RAID array componen	ts, RAID leve	Is and comparison,
KAIP Impac	i oi ais	k performance, Hot spares		

Module:4	Intelligent Storage Syste	m		6 hours
Component	ts of an intelligent storage sy	ystem, intelligent storag	e arra	y, Concepts in practice
Module:5	Direct-attached storage	and introduction to		6 hours
	SCSI			
	* *	_	ge (D	OAS), Disk drive interfaces,
Introduction	n to SCSI and its command	model.		
M. 1.1. (C4 NI 4		1	(1
Module:6	Storage Area Networks	CCAN E'1 1	1	6 hours
	· ·	•	annei	(FC), connectivity, FC ports
and archited	cture, Zoning, FC login type	es, FC topologies.		
Module:7	Network-attached storag	TO.		6 hours
			TAC)	devices, NAS file I/O, NAS
-	-	• ,		
-	<u> </u>	file-sharing protocols a	ind I/	O operations, Factors affecting
NAS nerfor	rmance and availability			
TYAS PCTIOI	mance and availability			
TAND POLIUL	mance and availability			
Module:8	Contemporary issues:			3 hours
-				
		Total Lecture hours:		3 hours
Module:8	Contemporary issues:	Total Lecture hours:		
Module:8 Text Book(Contemporary issues: (s)		ormati	45 hours
Module:8 Text Book(Contemporary issues: (s) undaram Gnanasundaram,	Alok Shrivastava, Info	ormati	45 hours
Module:8 Text Book(1. Somas: Wiley:	(s) undaram Gnanasundaram, Publishing Inc, 2nd Edition	Alok Shrivastava, Info	ormati	45 hours
Module:8 Text Book(1. Somas Wiley Reference	(s) undaram Gnanasundaram, Publishing Inc, 2nd Edition	Alok Shrivastava, Info , 2012.		45 hours on Storage and Management,
Text Book(1. Somas Wiley: Reference: 1. Data S	(s) undaram Gnanasundaram, Publishing Inc, 2nd Edition Books Storage Networking: Real V	Alok Shrivastava, Info , 2012. World Skills for the Co		45 hours on Storage and Management,
Text Book(1. Somasi Wiley: Reference: 1. Data S Beyond	(s) undaram Gnanasundaram, Publishing Inc, 2nd Edition Books Storage Networking: Real V d Nigel Poulton John Wiley	Alok Shrivastava, Info , 2012. World Skills for the Co & Sons, 2014.	отрТ	45 hours on Storage and Management, IA Storage+ Certification and
Text Book Somas Wiley Reference Data S Beyond Storage	(s) undaram Gnanasundaram, Publishing Inc, 2nd Edition Books Storage Networking: Real V d Nigel Poulton John Wiley	Alok Shrivastava, Info , 2012. World Skills for the Co & Sons, 2014. Troppens, Rainer Erke	отрТ	45 hours on Storage and Management, IA Storage+ Certification and
Text Book(1. Somas Wiley) Reference 1. Data S Beyond 2. Storage Wolaft	Contemporary issues: (s) undaram Gnanasundaram, Publishing Inc, 2nd Edition Books Storage Networking: Real V d Nigel Poulton John Wiley e Networks Explained Ulf ka, Nils HausteinJohn Wiley	Alok Shrivastava, Info , 2012. World Skills for the Co & Sons, 2014. Troppens, Rainer Erke y & Sons, 24-Aug-2011	ompT ns, W	45 hours on Storage and Management, IA Storage+ Certification and Volfgang Muller-Friedt, Rainer
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Text Book(1. Somasi Wiley Reference 1. Data S Beyond 2. Storage Wolaft 3. Securii Hall, 2	(s) undaram Gnanasundaram, Publishing Inc, 2nd Edition Books Storage Networking: Real V d Nigel Poulton John Wiley e Networks Explained Ulf ka, Nils HausteinJohn Wiley ng Storage: A Practical Gui	Alok Shrivastava, Info , 2012. World Skills for the Co & Sons, 2014. Troppens, Rainer Erke y & Sons, 24-Aug-2011	ompT ns, W	