

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### CO's to PO's & PSO's mapping

Name of the course : **Storage Area Networks**

Sub Code : 18CS822

Name of the Faculty/s : **Prof. Smitha N., Dr. Shanthi M. B.**

Sem & Sec : 8<sup>th</sup> B & C

Course Outcomes		Modules covered	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3	PS O4
CO1	Identify key challenges in managing information and analyze different storage networking technologies and virtualization	1	2	2	1	1	0	0	0	0	0	0	0	0	0	1	1	0
CO2	Explain components and the implementation of NAS	2	2	2	1	1	0	0	0	0	0	0	0	0	0	1	1	0
CO3	Describe CAS architecture and types of archives and forms of virtualization	2,3	2	2	1	1	0	0	0	0	0	0	0	0	0	1	1	0
CO4	Illustrate the storage infrastructure and management activities	5	2	2	1	1	0	0	0	0	0	0	0	0	0	2	1	0

COGNITIVE LEVEL	REVISED BLOOMS TAXONOMY KEYWORDS
L1	List, define, tell, describe, identify, show, label, collect, examine, tabulate, quote, name, who, when, where, etc.
L2	summarize, describe, interpret, contrast, predict, associate, distinguish, estimate, differentiate, discuss, extend
L3	Apply, demonstrate, calculate, complete, illustrate, show, solve, examine, modify, relate, change, classify, experiment, discover.
L4	Analyze, separate, order, explain, connect, classify, arrange, divide, compare, select, explain, infer.
L5	Assess, decide, rank, grade, test, measure, recommend, convince, select, judge, explain, discriminate, support, conclude, compare, summarize.

PROGRAM OUTCOMES (PO), PROGRAM SPECIFIC OUTCOMES (PSO)				CORRELATION LEVELS	
PO1	Engineering knowledge	PO7	Environment and sustainability	0	No Correlation
PO2	Problem analysis	PO8	Ethics	1	Slight/Low
PO3	Design/development of solutions	PO9	Individual and team work	2	Moderate/ Medium
PO4	Conduct investigations of complex problems	PO10	Communication	3	Substantial/ High
PO5	Modern tool usage	PO11	Project management and finance		
PO6	The Engineer and society	PO12	Life-long learning		
PSO1	Design and develop applications using different stacks of web and programming technologies				
PSO2	Design and develop secure, parallel, distributed, networked, and digital systems				
PSO3	Apply software engineering methods to design, develop, test and manage software systems.				
PSO4	Design and develop intelligent applications for business and industry				

## 1. Justification for levels of correlation for COs & POs/PSOs ( )

**PO1: Engineering Knowledge:** Engineering Knowledge of various storage, networking, backup recovery, and allocation strategies help students to identify, analyze and design solutions as it belongs to the core principles of computer science; hence correlation level is **Medium** to all COs i.e. 2

**PO2: Problem Analysis:** Ability to analyze the storage and networks related issues when it occurs in the industry/College. Correlation level is **Medium** for all COs i.e. 2

**PO3: Design/development of solutions:** Subject is dealing with different protocols and architecture, hence the correlation is slightly low i.e., 1

**PO4: Conduct investigations of complex problems:** Storage Area Network is used in day to day life to store and process the data, hence the correlation is slightly low i.e., 1

**PSO2:** SAN deals with different types of Networks and securing and monitoring the networks hence the correlation level is **low** for all COs, i.e. 1

**PSO3:** Business Application can be maintained through cloud by using certain SAN technologies and frameworks, hence the correlation is **low**, i.e. 1

*Note: Other PO's/PSO's have no correlation (or very low correlation) with respect to CO's of this Course.*

## 2. Analysis on previous attainments for setting targets on CO attainments for current semester subjects.

Storage Area network is a newly introduced subject. So previous attainment can not be taken for setting the current target. Hence, the Target for current target values for Storage Area network was set as follows :

Couse Outcome	Attainment Level for last year	Target for current exam	Attainment Level of current year	Gap	Gap Analysis
CO1	<b>2.8</b>	<b>3</b>			
CO2	<b>3.0</b>	<b>3</b>			
CO3	<b>3.0</b>	<b>3</b>			
CO4	<b>2.7</b>	<b>3</b>			
CO5	<b>2.9</b>	<b>3</b>			

CO-PO attainment computation formula along with Rubrics

## 3. Final CO attainment w.r.t PO and PSO

Final CO attainment value	CO-PO and CO-PSO attainment															
	CO-P O1	CO-P O2	CO-P O3	CO-P O4	CO-PO5	CO-P O6	CO-P O7	CO-PO 8	CO-PO 9	CO-P O10	CO-P O11	CO-P O12	CO-PS O1	CO-PS O2	CO-PS O3	CO-PS O4