

**Course Outcomes & CO-PO-PSO Mapping and Justification**

Subject	UNIX Programming	18CS56
COURSE OUTCOMES:		
CO No.	On completion of this course, students will be able to:	Cognitive Level
18CS56.1	Understand the basic concepts of UNIX Architecture, File system and basic commands.	L2 Understand
18CS56.2	Understand the basic file system commands, concepts of Shell programming.	L2 Understand
18CS56.3	Understand the concepts UNIX API's and process control.	L2 Understand
18CS56.4	Understand the concepts of process accounting, User identification and different IPC mechanisms.	L2 Understand
18CS56.5	Understand signal handling mechanism, daemon characteristics, coding rules and error logging.	L2 Understand

CO-PO-PSO MAPPING

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18CS56.1	2	1	-	-	-	-	-	-	-	-	-	1	-	2	-
18CS56.2	2	1	1	-	-	-	-	-	-	-	-	1	-	2	-
18CS56.3	2	1	-	1	-	-	-	-	-	-	-	1	-	2	-
18CS56.4	2	1	1	1	-	-	-	-	-	-	-	1	-	2	-
18CS56.5	2	1	1	1	-	-	-	-	-	-	-	1	-	2	-
Avg. Mapping	2	1	1	1		-	-	-	-	-	-	1		2	-

CO-PO-PSO JUSTIFICATION

CO No.	PO/PSO	CL	Justification
18CS56.1	PO1	2	understand the basic concept of UNIX architecture and basic UNIX commands.
	PO2	1	Able to analyze the different types of files and commands used in UNIX.
	PO12	1	Students will be use UNIX commands in solving problems.
	PSO2	2	Students will able to use the UNIX commands for implementing shell programs.
18CS56.2	PO1	2	Students can understand the concept of shell environment.
	PO2	1	Student can able to analyze UNIX commands in shell environment.
	PO3	1	Students will be able to design the solutions for a given problem using the concepts of shell scripts
	PO12	1	Students will be able to design the solutions for a given problem using the concepts of shell scripts
	PSO2	2	Slightly maps as students can understand the concept of shell environment.
18CS56.3	PO1	2	Able to apply file APIs to handle applications and fundamentals of processes, memory allocation with respect to UNIX operating system.
	PO2	1	Identify processes related activities and inbuilt file APIs thus apply the same to solve the problem.
	PO4	1	Choose appropriate file APIs for a given problem.
	PO12	1	Identify the lacunae in the APIs and thus be able to frame new APIs and ability to investigate slightly the usage of process control.
	PSO2	2	Understand the purpose of process, file APIs and effectively apply.
18CS56.4	PO1	2	Understand the fundamentals process accounting, User identification, Inter process communication and client server mechanism.
	PO2	1	Identify the types of IPCs, compare and contrast the same.
	PO3	1	Explore design alternatives with respect to IPC.
	PO4	1	Ability to investigate slightly the usage of process control and the usage of client server techniques for IPC.
	PO12	1	Identify the drawbacks with respect to client server techniques.
	PSO2	2	Understand IPC.
18CS56.5	PO1	2	Understand the fundamentals of signaling handling, daemon processes, error logging, coding rules and apply effectively
	PO2	1	Identify signal handling processes, compare and contrast error logging.
	PO3	1	Explore design alternatives with respect to signal handling and daemons.

	PO4	1	Ability to investigate slightly the usage of coding rules.
	PO12	1	Identify the drawbacks with respect to error logging
	PSO2	2	Understand signal handling.

Course Faculty

Course Coordinator

Program Coordinator

H.o.D

**(Roopalakshmi S/
Rachitha M V)**

(Name)

(Dr. Kantharaju H C)

(Dr. M. Ramakrishna)