DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

LECTURE PLAN

LINUX AND SHELL PROGRAMMING (III SEM- IT)

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S.No.	Chapter Title	Lectures	Contents of the Lectures
1	Introduction	1	Logging in, changing password (passwd command only)
		2	man, xman, info commands to access on line help
		3	Simple commands like ls, cp, mv, grep, head, tail, sort, uniq, diff, echo, date
		4	which, whereis, whatis, who, finger w (option and variations included) commands
		5	Directory commands, access permissions, changing access permissions for files and directories
		6	hard & symbolic links. Environment and path setting
2	vi editor	7	Creating and editing files, features of vi
		8	insertion deletion, searching, substitution operations,
		9	yank, put, delete commands,
		10	reading & writing files, exrc file for setting parameters
		11	advance editing techniques. vim(improved vi)
		12	Programming utilities: Compiling & linking C, C++ programs,
		13	make utility, debugging C programs using gdb, system call.
3	Introduction to X-window system	14	x-window as client/ server system
		15	concept of window manager
		16	remote computing & local displays
		17	xinitrc file, customize X work environment and applications
		18	customizing the fvwm window manager
4	Shell	19	Meaning and purpose of shell
		20	Introduction to types of shell
		21	The command line, standard input and standard output, redirection
		22	pipes, filters special characters for searching files and pathnames
		23	Bourne Again Shell, shell script-writing and executing
		24	command separation & grouping
		25	redirection
		26	directory stack manipulation
		27	processes
		28	parameters & variables
		29	keyword variables
5	Shell Programming	30	Control structures
		31	the Here document
		32	expanding NULL or UNSET variables
		33	Builtins, functions, history
		34	aliases, job control
		35	filename substitution
		36	source code management- RCS and CVS
		37	awk utility