

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc – Information Technology (Integrated)
Semester: IV
Syllabus with Effect from: June-2013

Paper Code: PS04EIT02	Total Credit: 2
Title Of Paper: Basic of UNIX Operating System	

Unit	Description in detail	Weightage (%)
I	Introduction to UNIX A UNIX Biography. Salient features of UNIX : Multiuser Capability, Multitasking Capability, Communication, Security, Portability. Unix System Origination. Types of Shells : Bourne Shell, C Shell, Korn Shell The UNIX file System	25%
II	UNIX Commands Login, logout, passwd, who, who am I, clear, date, cal, bc, man. pwd, cd, mkdir, rmdir, cp, rm, mv, cat, file, ls, chmod, touch, wild cards characters. File redirection (standard input, output), Pipes. wc, cmp, diff, comm, cut, paste, sort, grep.	25%
III	Vi Editor Introduction to vi editor Modes of operation. vi editor commands: Positioning by Characters. Positioning by Line. Positioning by Word. Positioning in the window. Scrolling. Positioning on a Numbered Line. Inserting text. Deleting text. Miscellaneous commands. Quitting vi editor. Block commands. - Search, Find and Replace, Delete and Paste, Yank and Paste.	25%
IV	Shell Scripts Introduction. When to use shell scripts. Shell variables. Shell keywords. Assigning values to variables. Unix-defined or System variables. Positional parameters, passing command line arguments. Arithmetic in shell scripts. Read and echo command. If statement. Test command: File tests, String tests.	25%



	Use of logical operators. Case control structure. While loop, For loop. Break, continue statement.	
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Basic Text & Reference Books:-

- Yashavant Kanetkar, UNIX Shell Programming, BPB Publications.
- Sumitabha Das : Your UNIX the Ultimate Guide, Tata McGraw Hill.

