

STATE INSTITUTE OF ENGINEERING & TECHNOLOGY, NILOKHERI
DEPARTMENT OF COMPUTER ENGINEERING
LESSON PLAN

Subject Name:-UNIX and Linux Programming

Year:-3rd

Subject Code: PE-CS-S314A

Semester:-6th

Subject Teachers: Ms. Seema Ranga & Mr. Ashish Kharb

Lecture No	Unit No	Topic	COs Covered
L 1	Unit-I	Introduction to Unix and Linux Programming	CO1
L 2		History of Unix, Structure of Unix System	
L 3		Unix System Environment, Unix/Linux Startup	
L 4		User accounts, accessing Linux – starting and shutting processes	
L 5		Logging in and Logging out, various types of Unix Commands	
L 6		zip, unzip, compress, uncompress	
L 7		pack, unpack, various types of shells	
L 8		shell programming	
L 9		Unix file system, Mounting & Unmounting File System	
L 10		Linux/Unix files, i-nodes	
L 11		file system related commands,	
L 12		shell as command processor, shell variables	
L 13		Scripting, Unix architecture	
L 14		Handling ordinary files	
L 15		General purpose utilities	
L 16		advanced Unix Commands	
L 17		Revision	
L 18	Unit-II	Filters and File Compression: Introducing regular expression patterns	CO2
L 19		syntax, character classes, Quantifiers	
L 20		Bourne Shell Programming, shell scripting	
L 21		grep : searching pattern, egrep : searching extended regular expression	
L 22		Editors in Unix/Linux : Stream Editor, Visual Editor, Emac Editor	
L 23		programming with AWK and PERL, File compression techniques	
L 24		delta compression, parallel compression with Xdelta utility	
L 25		data similarities elimination for data reduction	

L26	Revision	
L27	Unit-III	CO3
L28		
L29		
L30		
L31		
L32		
L33		
L34		
L35		
L36	Unit-IV	CO4
L 37		
L 38		
L 39		
L40		
L 41		
L 42		
L 43		
L 44		
L45		

Text Books:

1. SumitbhaDas : Unix – Concept and Applications, Fourth Edition TMH, 2015
2. B.M Harwani, Unix and Shell Programming, Oxford University Press, 2013
3. Neil Matthew, Richard Stones : Beginning Linux Programming, 4th. Edition, Wrox-Shroff, 2011.
4. Welsh &Kaufmann : Running Linux, O'Reiley& Associates, 2013.

Web resources:

1. <https://www.geeksforgeeks.org/linux-unix/linux-tutorial/>
2. <https://www.tutorialspoint.com/unix/index.htm>