

LABORATORY PRACTICAL PLANNING

Academic Year: 2025-26 (EVEN)

Date: 15/12/2025

Institute Name: K. K. Wagh Polytechnic, Nashik

Scheme: K

Program and Code: Information Technology (IF)

Course Code : 312001

Course Name: Basics Linux (BLP)

Name of Faculty: Ms. D. S. Katkade

Class: FYIF-Cray

Batch: A/B/C

● **Teaching-Learning & Assessment Scheme:**

Course Code	Course Title	Abbr	Course Category	Learning Scheme						Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs./Week			SLH	NLH	Theory				Based on LL & TSL Practical				Based on SL					
				CL	TL	LL			FA-TH			SA-TH	Total		FA-PR		SA-PR		SLA			
													Max	Min	Max	Min	Max	Min	Max	Min	Max	
312001	Basics Linux Programing	BLP	DSC	2	-	2	-	4	2	-	-	-	-	-	25	10	25 @	10	-	-	50	

Abbreviations: CL- Class Room Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA - Self Learning Assessment
Legends: @ Internal Assessment, # External Assessment, *# On Line Examination, @\$ Internal Online Examination

● **COURSE LEVEL LEARNING OUTCOMES (COS)**

By learning course Database Management System (DMS-313302) Second Year students will be able to achieve & demonstrate the following COs on completion of course based learning.

- CO1 - Install Linux operating system.
- CO2 - Execute general purpose commands of the Linux operating system.
- CO3 - Manage files and directories in Linux operating system.
- CO4 - Use vi editor in Linux operating system.
- CO5 - Write programs using shell script.

● **COs, Practical Laboratory Learning Outcome (LLOs) and Mapping:**

Pr. No	LLO	Name of Practical	Planned Date	Performance date	Remark	Related self-learning (if any)
1	LLO1.1	* Install and configure the Linux operating system.	A-20/12/25 B-20/12/25 C-18/12/25	A- B- C-		
2	LLO2.1	* Execute the following generalpurpose Linux commands. 1) cal 2) date 3) echo 4) printf 5) bc 6) script 7) mailx 8) man 9) clear	A-27/12/25 B-27/12/25 C-01/01/26	A- B- C-		
3	LLO3.1	Execute the following generalpurpose Linux commands. 1) passwd 2) who 3) whoami 4) uname 5) tty 6) stty 7) ps 8) kill 9) sleep	A-03/01/26 B-03/01/26 C-08/01/26	A- B- C-		

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Pr. No	LLO	Name of Practical	Planned Date	Performance date	Remark	Related self-learning (if any)
4	LLO4.1	* Execute the following file and Directory manipulation commands along with different options. 1) pwd 2) cd 3) mkdir 4) rmdir 5) ls 6) cat 7) rm 8) mv 9) cp	A-10/01/26 B-10/01/26 C-15/01/26	A- B- C-		
5	LLO5.1	* Execute the following file and Directory manipulation commands along with different options. 1) touch 2) more 3) lp 4) file 5) wc 6) cmp 7) comm 8) diff 9) split	A-17/01/26 B-17/01/26 C-22/01/26	A- B- C-		
6	LLO6.1	* Execute the following Linux commands for compressing decompressing and archiving files.1) gzip 2) gunzip 3) tar 4) tar -c 5) tar -x 6) zip 7) unzip	A-24/01/26 B-24/01/26 C-29/01/26	A- B- C-		
7	LLO7.1	* Execute the following commands to change file and directory permissions. 1) ls -l, ls -ld 2) chmod (with all options) 3) chown 4) chgrp	A-31/01/26 B-31/01/26 C-05/02/26	A- B- C-		
8	LLO8.1	* Use vi editor and execute all editor commands.	A-07/02/26 B-07/02/26 C-12/02/26	A- B- C-		
9	LLO11.1	*Create input and output redirection in Linux.	A-14/02/26 B-14/02/26 C-19/02/26	A- B- C-		
10	LLO12.1	* Execute the following filters commands in Linux. 1) pr 2) head 3) tail 4) cut 5) paste 6) sort 7) uniq 8) tr	A-28/02/26 B-28/02/26 C-26/02/26	A- B- C-		

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11	LLO 13.1	* Execute commands grep, egrep and sed in Linux.	A-07/03/26 B-07/03/26 C-05/03/26	A- B- C-		
12	LLO 15.1	* Write the Shell script by using the "if" statement.	A-14/03/26 B-14/03/26 C-12/03/26	A- B- C-		
Content beyond Syllabus		Demonstration of Linux Commands using putty softwares	Last week of march			

ASSESSMENT METHODOLOGIES/TOOLS

A. Formative assessment (Assessment for Learning) (FA-TH)

- Continuous assessment based on process and product related performance indicators. Each practical will be assessed considering
 - 60% weightage is to process
 - 40% weightage to product

B. Summative Assessment (Assessment of Learning) (SA-TH)

- End semester examination, Lab performance, Viva voce

• **SUGGESTED MICRO PROJECT / ASSIGNMENT/ ACTIVITIES FOR SPECIFIC LEARNING / SKILLS DEVELOPMENT (SELF LEARNING)**

- **Micro project**
Not Applicable
- **Assignment**
Not Applicable

Ms. D. S. katkade
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