

LABORATORY PRACTICAL PLANNING

**Institute Name:** K. K. Wagh Polytechnic, Nashik  
**Academic Year:** 2025-26 (EVEN)  
**Programme:** Information Technology (IF)  
**Scheme:** K  
**Semester:** Second  
**Class:** FYIF-PARAM

**Date:** 15/12/2025

**Course:** Basics Linux (BLP)

**Course Code:** 312001

**Name of Faculty:** Mrs. P. A. Thakare

**Batch:** A/B/C

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

Course Code	Course Title	Abbr	Course Category	Learning Scheme						Assessment Scheme										Total Marks	
				Actual Contact Hrs./Week			SLH	NLH	Credits	Paper Duration	Theory			Based on LL & TSL Practical				Based on SL			
				C	T	L					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA		
				L	L	L	Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min			
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:**

Sr. 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-19/12/25 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-26/12/25 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-02/01/26 B-03/01/26 C-01/01/26	A- B- C-		

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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-09/01/26 B-10/01/26 C-08/01/26	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-19/01/26 B-17/01/26 C-15/01/26	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-23/01/26 B-24/01/26 C-22/01/26	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-30/01/26 B-31/01/26 C-05/02/26	A- B- C-		
8	LLO8.1	* Use vi editor and execute all editor commands.	A-06/02/26 B-07/02/26 C-05/02/26	A- B- C-		
9	LLO11.1	* Create input and output redirection in Linux.	A-13/02/26 B-14/02/26 C-12/02/26	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-20/02/26 B-21/02/26 C-26/02/26	A- B- C-		

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11	LLO13.1	* Execute commands grep, egrep and sed in Linux.	A-06/03/26 B-07/03/26 C-05/03/26	A- B- C-		
12	LLO15.1	* Write the Shell script by using the "if" statement.	A-13/03/26 B-14/03/26 C-12/03/26	A- B- C-		

## 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

**Mrs. P. A. Thakare**  
(Name & Signature of Staff)

**Ms. M. S. Karande**  
(Name & Signature of HOD)