## Maharashtra State Board of Technical Education, Mumbai

**K-2**

### LABORATORY PLAN (LP)/COURSE INFROMATION SHEET (CIS)

**Academic Year:** 2024-25 **Date**: 01/01/2025

**Institute Name & Code:** Ajitdada Pawar College of Polytechnic **Institute Code:** 1472

**Program and Code:** Computer Technology (CM) **Course Index: CI305**

**Course Name:** LINUX BASICS (BLP) **Course Code & Abbr:-** 312001 (BLP)

**Class:** SYCM **Semester:** IV **Scheme:** K

**Total Hrs:** 30 Hrs. **Name of Faculty:** Prof. Ganesh B. Jore

## Teaching and Examination Scheme:



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Course Title** | **Course Code/ Abbr** | **Course Categ ory** | **Learning Scheme** | | | | | **Credits** | **Paper Duration** | **Assessment Scheme** | | | | | | | | | | |
| **Actual Contact Hrs/Week** | | | **SLH** | **NLH** | **Theory** | | | | **Based on LL & TSL Practical** | | | | **Based on SL** | | **Total Marks** |
| **CL** | **TL** | **LL** | **FA TH** | **SA TH** | **Total** | | **FA-PR** | | **SA-PR** | | **SLA** | |
| **Max** | **Max** | **Max** | **Min** | **Max** | **Min** | **Max** | **Min** | **Max** | **Min** |
| **312001** | **LINUX BASICS** | **BLP** | **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

* **Practical Plan**:

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| **Sr No** | **COs & LLOs** | **Practical Titles** | **Date of Plan** | | **Remark/ Assessment Date with Staff sign** |
| **From** | **To** |
| 1 | CO 1  LLO 1.1 | \* Install and configure the Linux operating system. |  |  |  |
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| 2 | CO2 LLO 2.1 | Execute the following generalpurpose Linux commands. 1) cal 2) date 3) echo 4) printf 5) bc 6) script 7) mailx 8) man 9) clear |  |  |  |
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| 3 | CO 2  LLO 3.1 | \* Execute the following generalpurpose Linux commands. 1) passwd 2) who 3) whoami 4) uname 5) tty 6) stty 7) ps 8) kill 9) sleep |  |  |  |
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| 4 | CO 3  LLO 4.1 | \* 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 |  |  |  |
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| 5 | CO 3  LLO 5.1 | \* 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 |  |  |  |
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| 6 | CO 3  LLO 6.1 | \* 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 |  |  |  |
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| 7 | CO 3  LLO 7.1 | \* Execute the following commands to change file and directory permissions. 1) ls -l, ls - ld 2) chmod (with all options) 3) chown 4) chgrp |  |  |  |
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| 8 | CO 4  LLO 8.1 | \* Use vi editor and execute all editor commands |  |  |  |
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| 11 | CO 4  LLO 11.1 | \*Create input and output redirection in Linux. |  |  |  |
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| 12 | CO 5  LLO 12.1 | \* Execute the following filters commands in Linux. 1) pr 2) head 3) tail 4) cut 5) paste 6) sort 7) uniq 8) tr |  |  |  |
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| 13 | CO 5  LLO 13.1 | \* Execute commands grep, egrep and sed in Linux. |  |  |  |
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| 15 | CO 5  LLO 15.1 | \* Write the Shell script by using the "if" statement. |  |  |  |
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