



**Xavier Institute of Engineering**

**Mahim, Mumbai 400016**

**Department of Electronics and Telecommunication Engineering**

**(Programme accredited by National Board of Accreditation - NBA)**

### **Event Report**

**Title of the event: Seminar on "INNOVATE WITH EVERY COMMAND: MASTERING SHELL AND AWK"**

**Event Date/Time: 06/02/2025 1:30-3.30PM**

**Event Coordinators: Prof. Smita Pawar**

**Details of Resource Person: Dr. Chhaya Dhavale**

**No. of Participants: 50**

**Class/Semester: TE EXTC /VI**

**Venue: Computer Centre 1<sup>st</sup> Floor, XIE**

#### **Objectives:**

- To introduce shell scripting and Linux programming.
- To provide hands-on experience with command-line tool sand scripting.
- To familiarize students with AWK programming and its practical uses.

#### **Description: In collaboration with IIC-XIE Innovation cell and Media cell.**

The seminar on "Innovate with Every Command: Mastering Shell and AWK" was an enriching and interactive session led by **Dr. Chhaya Dhavale**, an esteemed expert in Linux programming. The session commenced with a warm welcome extended by **Ms. Purva Gharat**, who introduced Dr. Dhavale and set the lab for an engaging learning experience.

Dr. Dhavale initiated the session with an introduction to **Linux and its significance** in various fields such as software development, cybersecurity, and system administration. She then provided an in-depth exploration of the Linux file system, essential command-line tools, and scripting techniques, illustrating their importance in streamlining workflows and automating tasks.

A major highlight of the seminar was the hands-on **practical session**, where students got the opportunity to execute Linux commands and develop simple yet effective shell scripts. This interactive component allowed students to apply their knowledge in real-time, reinforcing their learning through **experiential practice**. Dr. Dhavale also introduced **AWK scripting**, explaining its functionality and showcasing its power in data manipulation and text processing.



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Throughout the session, Dr. Dhavale addressed **common beginner challenges**, offering expert **solutions, debugging techniques, and best practices** to ensure students could effectively overcome obstacles in their learning journey. Her detailed explanations and hands-on approach significantly contributed to building the participants' confidence in working with Linux.

The session concluded with an **interactive Q&A session**, where students actively participated by posing insightful questions. Dr. Dhavale patiently responded to each query, providing **additional resources and learning recommendations** for further exploration. She encouraged students to continue their journey in Linux scripting and AWK programming, highlighting its growing demand in the tech industry.

On behalf of TE EXTC, **Ms. Manali Lad** delivered the **vote of thanks**, expressing sincere gratitude to **Dr. Dhavale** for her valuable insights and engaging presentation. **Prof. Smita Pawar** also conveyed her appreciation to both the speaker and the enthusiastic participants for making the event a success.

The seminar was **highly appreciated** by attendees, who found it to be **informative, engaging, and well-structured**. The combination of theory and practice left students with a **strong foundational understanding of Linux and scripting**, inspiring them to explore further in this dynamic field.

LOs achieved: CO1, CO2, CO3, CO4, CO5, CO6

POs achieved: PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12

PSOs achieved: PSO1, PSO2

Event Coordinator

Prof. Smita Pawar, Assistant Professor

Department of EXTC

Xavier Institute of Engineering, Mahim.

HoD

Dr. Nitin Ahire

Department of EXTC



# XAVIER INSTITUTE OF ENGINEERING

Mahim, Mumbai 400016

## Department of Information Technology

(NBA Accredited)

(Approved by AICTE, Govt. of Maharashtra and Affiliated to University of Mumbai)

### Glimpse of the Event





Mumbai, Maharashtra, India  
2rwr+2rc, Raheja Hospital Marg, Mahim, Mumbai,  
Maharashtra 400016, India  
Lat 19.045105° Long 72.842014°  
06/02/2025 02:41 PM GMT +05:30

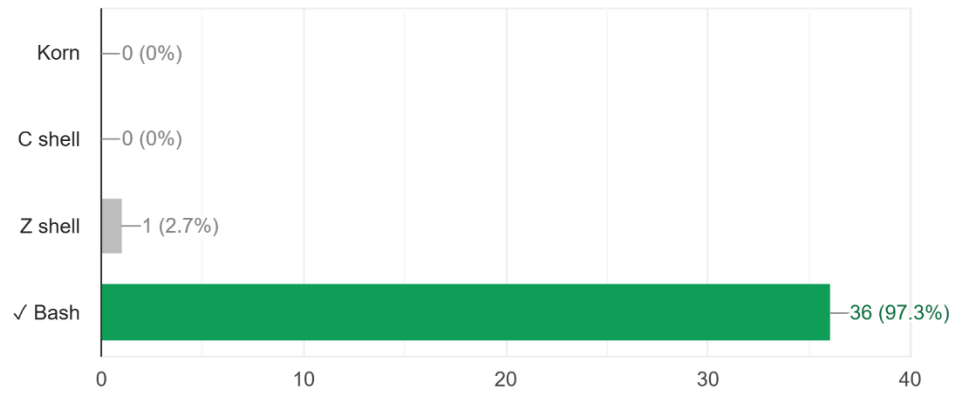


Mumbai, Maharashtra, India  
2rwr+2rc, Raheja Hospital Marg, Mahim, Mumbai, Maharashtra  
400016, India  
Lat 19.045099° Long 72.842005°  
06/02/2025 03:09 PM GMT +05:30

## Feedback

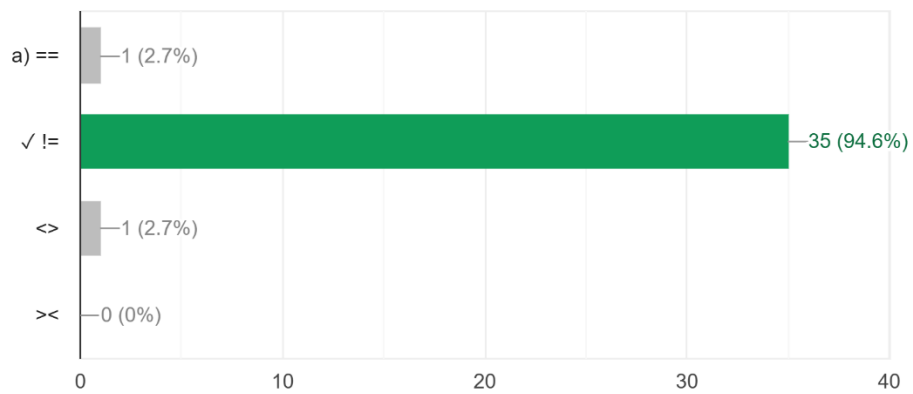
What is the default shell in Linux?

36 / 37 correct responses



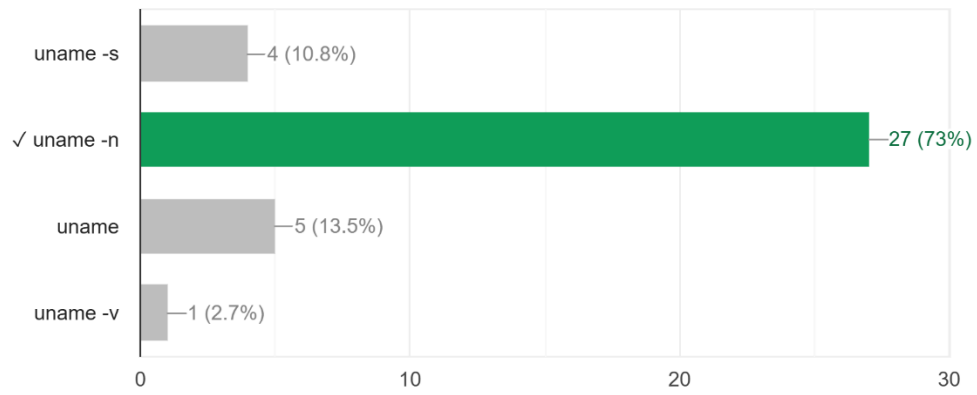
Which symbol is used to represent the "not equal to" comparison in shell scripting?

35 / 37 correct responses



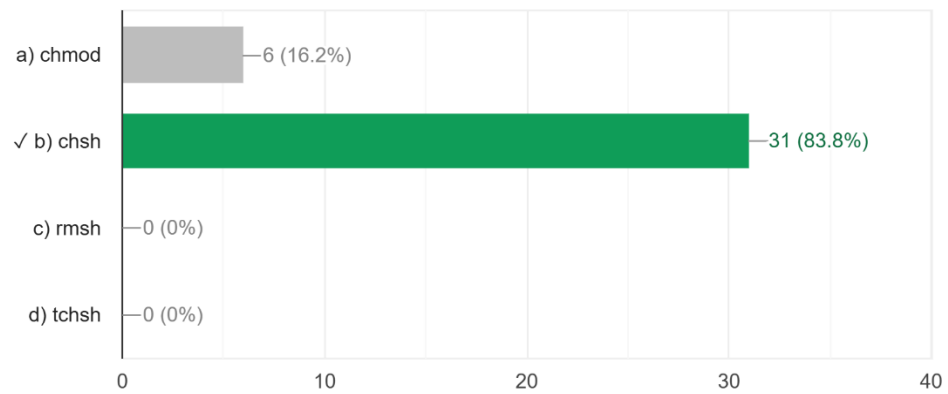
### To view your network hostname command used is

27 / 37 correct responses



### A user can change the default log-in shell using

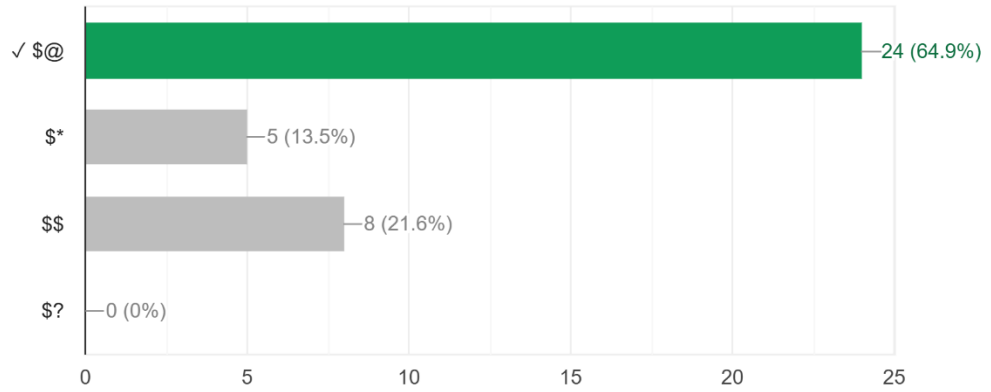
31 / 37 correct responses



Values of the

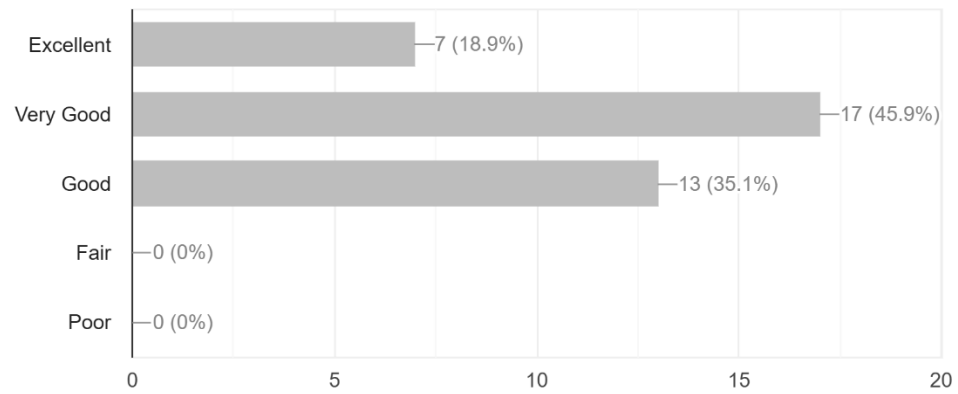
arguments that are passed in the program with

24 / 37 correct responses



How was the overall organization of the session?

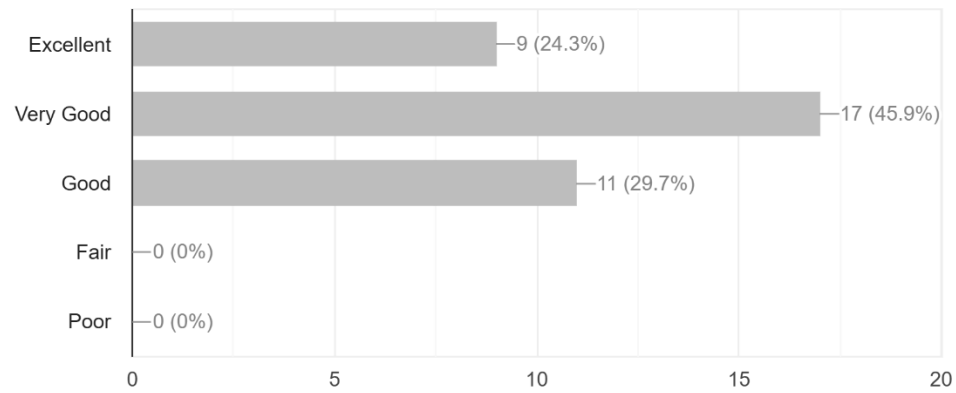
0 / 37 correct responses





### How relevant was the content discussed by the speaker?

0 / 37 correct responses



### What did you like the most about the session?

14 responses

Explanation Was very excellent

I really enjoyed the variety of topics covered, including shell scripting, AWK, and system commands.

Knowledge of the speaker and hands on experience

Learning more about linux

Practically knowledge increased

New commands

I learned new things in less time

Interactive

explanation about shell scripting was delivered very good by mam

## *Guest Lecture*

# **INNOVATE WITH EVERY COMMAND: MASTERING SHELL & AWK**



**DR. CHHAYA DHAVALE**  
**HEAD, XIE-IIC INNOVATION CELL**

**"Introduction to shell scripting and Linux programming"**  
on Thursday, 6th February 2025 from 1.30-3.30 pm in the  
Computer Center (1st Floor) at XIE

**FOR TE EXTC**

Organized by:

**Prof. Smita Pawar**

Subject Incharge & Head, Media cell, XIE -IIC



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## Department of Electronics and Telecommunication Engineering

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EXTC/LOA2025/A01

February 06, 2025

Dr. Chhaya Dhavale,

Associate Professor

Department of Information Technology

Xavier Institute of Engineering,

Mahim, Mumbai 400001

Dr. Chhaya Dhavale,

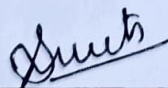
The Department of Electronics and Telecommunication Engineering would like to express its sincere appreciation for your two-hour hands-on **Shell Scripting and Linux Programming** session on Thursday, February 06, 2025, from 1.30–3.30 pm for our third-year engineering students.

The students benefited immensely from your session and are enthusiastic about pursuing a career in this field.

We look forward to your valuable association with our future events.

Sincerely,

Received  
Chhaya



Prof. Smita Pawar  
(Subject Teacher)



Dr. Nitin Ahire  
(HOD, EXTC)



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## Department of Electronics and Telecommunication Engineering

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EXTC/TL2025/Invitation-Letter 01

February 04, 2025

Dr. Chhaya Dhavale,  
Associate Professor  
Department of Information Technology  
Xavier Institute of Engineering,  
Mahim, Mumbai 400001

Dr. Chhaya Dhavale,

Given your expertise in Open Source and Linux Server Administration, the Department of Electronics and Telecommunication Engineering is pleased to invite you to conduct a hands-on **Shell scripting and Linux Programming** session on **Thursday, February 06, 2025, from 1.30–3.30 pm in the Computer center (1<sup>st</sup> floor)** at XIE. This skill lab session is for third-year engineering students studying *Linux, networking, and server configuration* (EXTC, VI semester).

Please confirm your availability and any resources you may need to conduct the session.

Sincerely,

With best regards,

Received  
Chhaya

Prof. Smita Pawar  
Subject Teacher

Dr. Nitin Ahire  
(HOD, EXTC)



# XAVIER INSTITUTE OF ENGINEERING

(Approved by AICTE, Govt. of Maharashtra, Affiliated to University of Mumbai and Accredited by NAAC)  
Mahim Causeway, Mahim, Mumbai 400 016. • Phone : (022) 2446 0359 / 2445 4559 / 2445 1961  
Mobile No. +91 7249371505 • Email ID : office@xavier.ac.in • Website : www.xavier.ac.in

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To,

The Principal,

Xavier Institute of Engineering (XIE),

Mahim, Mumbai - 400016.

Subject: Permission Letter for organizing a guest lecture on Linux Programming.

Respected Sir,

I am writing to formally request your permission to conduct a guest lecture on Linux Programming.

The purpose of this activity is to give a hands-on session on linux programming for shell script writing, sed command and awk scripting.

We seek your approval to proceed with the following details of the activity:

**Activity Name** : Linux Programming

**Date and Time** : 06/02/2025 at 1:30 to 3:30pm

**Venue** : Computer Center, 1<sup>st</sup> floor, XIE

**Resource Person** : Dr. Chhaya Dhavale, IT Department, XIE.

We kindly request your prompt consideration and approval for the mentioned activity/seminar. Thank you for your continued cooperation and support in advancing our collaborative efforts.

Sincerely,

Event Coordinator

Prof. Smita Pawar,

Assistant Professor

Xavier Institute of Engineering, Mahim

Dr. Nitin Ahire,

HoD, EXTC

Xavier Institute of Engineering, Mahim



**Xavier Institute of Engineering**  
Mahim, Mumbai 400016

**Department of Electronics and Telecommunication Engineering**  
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Date: 04/02/2025

## **Notice**

(AY:2024-25 Even Semester)

All the students of **TE EXTC** are hereby informed that, there will be a guest lecture with hands on session on **“Introduction to shell scripting and Linux programming”** on **Thursday, 6<sup>th</sup> February 2025** from **1.30-3.30 pm** in the **Computer Center (1<sup>st</sup> Floor)** at XIE for the subject *Skill lab: Linux & Networking & Server configuration* by **Dr. Chhaya Dhavale**, IT Department XIE, Mumbai.

Attendance is compulsory for the session.

Prof. Smita Pawar  
Faculty In charge

Dr. Nitin Ahire  
HoD, EXTC



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Xavier Institute of Engineering, Mahim

Dr. Nitin Ahire,

HoD, EXTC

Xavier Institute of Engineering, Mahim



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## T.E. EXTC SEM VI - EVEN - 2024-25

| Subject:     | Skill Lab: Linux and Network Server Configuration (LNSC) |  |                    |
|--------------|--|--|--------------------|
| Event Title: | Guest lecture on Shell scripting and Linux Programming   |  |                    |
| Venue:       | Computer center 1st Floor                                |  |                    |
| Date         | 06/02/25   | Time                                   | 1.30-3.30pm        |
| Roll No.     | GR No.   | Student Name                           | Sign               |
| 1.           | 202202001  | - BENITA BINOY JESSY                   | <i>[Signature]</i> |
| 2.           | 202202003  | - R NANDITHA RAMESH MEENA              | <i>[Signature]</i> |
| 3.           | 2023032002   | BEDRE DURVESH VINAYAK SUJATA           | <i>[Signature]</i> |
| 4.           | 202202004  | BHATADE VEDANT SANDEEP SIDDHI          | <i>[Signature]</i> |
| 5.           | 202202006  | CHAURASIA ARPIT SUBHASH ASHA           | <i>[Signature]</i> |
| 6.           | 202202008  | CHINDARKAR ADITYA YOGESH SANJEEVANI    | <i>[Signature]</i> |
| 7.           | 202202009  | CHORGE SOHAM GANESH GAYATRI            | <i>[Signature]</i> |
| 8.           | 2023032004   | DHAMAPURKAR AISHWARYA SUDHIR SUPRIYA   | <i>[Signature]</i> |
| 9.           | 202202012  | DHOPAT PRANAY ARVIND GEETA             | <i>[Signature]</i> |
| 10.          | 202202013  | DUDYALA VINAY LAXMAN KALPANA           | <i>[Signature]</i> |
| 11.          | 202202014  | DWIVEDI SANIDHYA BRAHMANAND PADMAJA    | <i>[Signature]</i> |
| 12.          | 202202015  | GANGA SAIKIRAN DEENADAYALU SHANTHI     | <i>[Signature]</i> |
| 13.          | 202202016  | GAWDE SHUBHAM SUNIL SWATI              | <i>[Signature]</i> |
| 14.          | 202202017  | GHARAT PURVA BHUPENDRA RANJEETA        | <i>[Signature]</i> |
| 15.          | 2023032005   | JAIN SUJAL AJITKUMAR URMILA            | <i>Ab</i>          |
| 16.          | 202202021  | JAT MUKESH DEVILAL PUSHPA              | <i>Ab</i>          |
| 17.          | 202202022  | KALE PIYUSH SUNIL NEETA                | <i>[Signature]</i> |
| 18.          | 2023032006   | KAMBLI SACHIN SUHAS SAYALI             | <i>[Signature]</i> |
| 19.          | 2023032007   | KHAN AFFAAN SHAHID SAJDA               | <i>[Signature]</i> |
| 20.          | 2023032008   | LAD MANALI ARJUN REKHA                 | <i>[Signature]</i> |
| 21.          | 202202026  | LUSHTE PRATIK LAHU RANJANA             | <i>[Signature]</i> |
| 22.          | 202202028  | MARKE GAURAV SUBHASH RAJANI            | <i>[Signature]</i> |
| 23.          | 202202029  | MHATRE ATHARV KESARINATH SUCHITA       | <i>[Signature]</i> |
| 24.          | 202202031  | MODAK MRUNMAYI VIKAS SHILPA            | <i>[Signature]</i> |
| 25.          | 202202032  | MOHITE SOHAM SHIVAJI SUREKHA           | <i>[Signature]</i> |
| 26.          | 202202034  | NIKAM SAHIL SACHIN LALITA              | <i>[Signature]</i> |
| 27.          | 202202035  | PALDE AYUSH VIJAY SANGITA              | <i>[Signature]</i> |
| 28.          | 202202037  | PASHTE VAISHNAV PRAVIN MADHAVI         | <i>[Signature]</i> |
| 29.          | 2023032011   | PATIL DIVYANSHU SANDESH SWARANJALI     | <i>[Signature]</i> |
| 30.          | 202202038  | PRAJAPATI ANKITKUMAR DURBAL PREMASHILA | <i>[Signature]</i> |
| 31.          | 202202039  | RANE PARTH MILIND MANSI                | <i>[Signature]</i> |
| 32.          | 202202040  | SANAP PIYUSH KESHAV SANGEETA           | <i>[Signature]</i> |



|     |            |                                    |             |
|-----|------------|------------------------------------|-------------|
| 33. | 2023032012 | SAUL ANVESH JAYPRAKASH PRANALI     | A.J. Paul   |
| 34. | 202202041  | SAWANT MAITHILY VISHWANATH RUPALI  | (M)         |
| 35. | 2023032013 | SAWANT HARSHAD JAYPRAKASH PRACHI   | Harshad     |
| 36. | 202202042  | SAWANT PRANAY PRAMOD               | Ab          |
| 37. | 202202045  | SHINDE ARCHITA SANTOSH NEHA        | S.          |
| 38. | 202202047  | SHUKLA SMITA RAKESHKUMAR VIDYA     | Smita       |
| 39. | 2023032014 | SURVE SHRUTI MANGESH MANSI         | Ab          |
| 40. | 202202049  | TAWAR VANSH ASHISH                 | V. Ashish   |
| 41. | 202202050  | THOKLE SHUBH DEEPAK VARSHA         | Ab          |
| 42. | 202202051  | VANGARI ABHISHEK YAGDIRI SHEETAL   | Abhishek    |
| 43. | 202202052  | VANJIWALE SOHAM SANJAY RASIKA      | Soham       |
| 44. | 202202054  | WORLIKAR PIYUSH YATISH NANDINI     | Ab          |
| 45. | 202202056  | YADAV PRABHAKAR CHITBAHAL KALAVATI | P. Kalavati |
| 46. | 202202055  | YADAV ARPIT CHANDRAPRAKASH REETA   | Ab          |
| 47. | 202102021  | NAIK NIKHIL NITIN DHANASHREE       | Nikhil      |
| 48. | 202102022  | NAIK SARVESH RAJENDRAKUMAR SHILPA  | Sarvesh     |
| 49. | 202202011  | DHULAP PRATIK RAJESH RENUKA        | Pratik      |
| 50. | 2022022029 | SAWANT SHUBHAM SANTOSH SUKHADA     | Shubham     |
| 51. | 2022022017 | KADAM HARSH AMARJEEV ANUMA         | Harsh       |
| 52. | 2022022005 | BHANDARE PRASAD RAJESH SHOBHA      | Prasad      |
| 53. | 2022022016 | JATHAR AMEY BABURAO BHAVIKA        | Ame         |
| 54. | 2022022019 | KAMBLE GIRISH DINESH ANITA         | Girish      |
| 55. | 2022022002 | ALWE KEDAR RAVINDRA KALPANA        | Ab          |
| 56. | 2022022018 | KADLAG YADURAJ RAJARAM PRAMILA     | Ab          |
| 57. | 202102018  | MALLAH SONU TIRTHRAJ SHANTIDEVI    | Sonu        |
| 58. | 2022022012 | GAIKWAD SHUBHAM NAVNATH JAYSHREE   | Ab          |
| 59. | 202102015  | KARPE PURVA ASHOK                  | Purva       |
| 60. | 202102025  | PAKHARE MANASHREE MOHAN SAIRANDHRI | Manashree   |
| 61. | 2022022014 | GIRKAR ANIKET BHAGWAN RUPALI       | Ab          |

Present - 50

Absent - 11

*Smita*  
06/02/2024  
Prof. Smita Pawar, Subject In Charge