



MARATHWADA MITRA MANDAL'S

**COLLEGE OF COMMERCE**

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ISO 9001:2015 Certified, Awarded as Best College by Savitribai Phule Pune University  
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**Department of Computer Science and MMCC Cyber Security Cell**

**Report on**

**5 Days Linux Basics Workshop with Cybersecurity Tools**

To equip students with essential Linux administration skills and cybersecurity knowledge, the Department of Computer Science and MMCC Cyber Security Club organized a five-day hands-on workshop titled "Linux Basics with Cybersecurity Tools." The workshop was conducted by Mr. Aditya More, alumni of 2022 batch of B.Sc(CS). Workshop was started on 20th December 2024 and conducted for 5 days for 2 hours, focusing on practical learning and real-world applications. Mr. Aditya More is a seasoned Technical Support Engineer III at Avaya India Private Limited, with 2 years of specialized experience in Avaya and 5 years of expertise in Cyber Security Domain. We are incredibly honored and proud to have had Mr. Aditya More, an accomplished alumnus and expert in both Linux administration and cybersecurity, as our guest speaker for this workshop.

**Workshop Breakdown**

The workshop was designed to provide step-by-step learning in Linux and cybersecurity, covering:

- Day 1: Introduction to Linux & Installation
- Day 2: Linux Basics – Filesystem and Commands
- Day 3: Linux Command Line for Networking
- Day 4: Shell Scripting & Cybersecurity
- Day 5: Troubleshooting, Advanced Networking & Cybersecurity

Hands-on Tools:

- ✓ Wireshark (Network Traffic Analysis)
- ✓ Nmap (Network Scanning & Security Auditing)

**Objectives:**

- **Introduce Linux Fundamentals :** Provide students with a strong foundation in Linux, including command-line operations, file management, and system administration.
- **Enhance Practical Skills :** Offer hands-on experience in using Linux for cybersecurity

applications, enabling students to apply theoretical knowledge to real-world scenarios.

- **Familiarize with Cybersecurity Tools** : Introduce essential cybersecurity tools like Nmap, Wireshark, Metasploit, and other Linux-based security utilities.
- **Prepare for Cybersecurity Careers** : Help students build foundational skills necessary for pursuing careers in cybersecurity, ethical hacking, and Linux system administration.



## Outcomes:

By the end of the "**Linux Basics with Cybersecurity Tools**" workshop, participants gained a strong foundation in Linux system administration, including command-line operations, file management, and user privileges. They developed hands-on experience with essential cybersecurity tools such as Nmap, Wireshark, and Metasploit, enabling them to analyze network security and detect potential vulnerabilities. The workshop enhanced their understanding of system security, firewall configurations, and secure authentication, helping them apply best practices in real-world scenarios. Participants also acquired skills in ethical hacking and penetration testing, fostering a responsible cybersecurity mindset.

Overall, the workshop prepared students for future careers in cybersecurity by equipping them with practical knowledge and technical proficiency in Linux-based security applications.

It was inspiring for our students to see one of their own alumni, who once walked the same halls, now making waves in the industry.



A handwritten signature in blue ink, appearing to read "Shaheen Mulani".

Prof. Shaheen Mulani Prof.  
Cyber Club Coordinator

A handwritten signature in blue ink, appearing to read "Nidhi Satavlekar".

Nidhi Satavlekar  
HOD,  
Department of Computer Science

A handwritten signature in blue ink, appearing to read "Ganesh Patare".

Dr. Ganesh Patare  
Principal