



## ST.XAVIER'S COLLEGE, MAPUSA GOA

### Report of Activity conducted in the Academic Year 2024-25

<b>Name of Activity</b>	Guest Talk "Command Line Tools in Linux" on the occasion of Software Freedom Day
<b>Date/Duration</b>	21st September 2024 / 2 Hours
<b>Venue</b>	Room No. 221 Science Building, St. Xavier's College
<b>Name of organizing Department/Cell</b>	Departments of Physics & Computer Science
<b>In collaboration with</b>	DBT, Government of India
<b>Name/s of Faculty Coordinator</b>	Prof. Nelson Lobo, Mr. Edwin D'Souza
<b>Stratum of Event</b>	College Level
<b>Name &amp; details of Resource Person/s</b>	Mr. Onkar Ainapur, Associate Professor, Department of Data Science, Government College of Commerce & Economics, Borda, Margao.
<b>Report</b>	<p><b>Objectives:</b></p> <ul style="list-style-type: none"><li>• Enhance student technological skills by introducing them to the functionalities and advantages of Linux command line tools.</li><li>• Foster student interest in open-source software and its potential applications.</li><li>• Equip students with practical tools to manage and troubleshoot technical tasks effectively.</li></ul> <p><b>Description:</b></p> <p>The session highlighted the strengths of Linux, particularly Linux Mint, focusing on its efficiency, customizability, and the power of the Command Line Interface (CLI) for increased productivity.</p> <p>Live demonstrations showcased the versatility of the command line. Participants witnessed the creation of an MP4 video using ffmpeg, a</p>

	<p>powerful tool for multimedia manipulation, emphasizing the ability to handle tasks without graphical software. Additionally, a fun and interactive dice game built with the shuf command demonstrated the engaging potential of the Linux CLI.</p> <p>The session concluded by exploring the playful side of Linux. Tools like cowsay and figlet displayed messages and shapes creatively in the terminal, revealing the artistic possibilities within the command line.</p> <p><b>Outcomes:</b></p> <ul style="list-style-type: none"> <li>• Students gained valuable practical skills by learning to utilize various Linux command line tools.</li> <li>• The workshop fostered student interest in open-source software, aligning with NAAC criteria on promoting resource optimization and innovation.</li> <li>• Equipping students with command line skills empowers them to independently solve technical problems, contributing to their academic progression and self-reliance, which aligns with NIRF and India Today criteria on graduate employability and student learning outcomes.</li> </ul> <p>This workshop successfully introduced students to the world of Linux command line tools, potentially influencing future curriculum development and fostering a culture of open-source exploration within the college.</p> <p><b>No. of beneficiaries : 36</b></p>
<b>Brochure/Poster</b>	<a href="https://xavierscollegegoa.ac.in/wp-content/uploads/2024/11/Brochure-Software-Freedom-Day.pdf">https://xavierscollegegoa.ac.in/wp-content/uploads/2024/11/Brochure-Software-Freedom-Day.pdf</a>
<b>Photographs</b>	<a href="https://xavierscollegegoa.ac.in/wp-content/uploads/2024/11/01-1.pdf">https://xavierscollegegoa.ac.in/wp-content/uploads/2024/11/01-1.pdf</a>
<b>List of participants With signatures</b>	<a href="https://xavierscollegegoa.ac.in/wp-content/uploads/2024/11/Participants-Software-Freedom-Day.pdf">https://xavierscollegegoa.ac.in/wp-content/uploads/2024/11/Participants-Software-Freedom-Day.pdf</a>
<b>Certificate</b>	NA