

# Lecture Linux Basics for Hackers

Fall Semester 2025/2026

<b>Name of the course</b>	Linux Basics for Hackers
<b>Name of the lecturer</b>	<b>Prof. Dr. Jurlind Budurushi</b>
<b>Description of the course</b>	<p>The participants will understand basic concepts of Hacking by learning the basics of Linux OS, such as using the terminal and commands, managing the filesystem and permissions, managing networks, storage devices and services, understanding how the kernel works, and applying basics of bash scripting and Python.</p> <p>Concrete understanding of Linux essentials, building of bash scripts for task automation and of Python scripts for scanning TCP/IP connections and implementing a simple password cracker, as well as staying secure and anonymous by using proxy servers and the TOR network.</p> <p>Gain practical experience with security offensive tools and respective defensive mechanisms.</p>
<b>Dates</b>	Oct – Dec 2025
<b>Kind of exam</b>	Written exam. In addition, it depends on the number of participants, there may be task assignments and presentations of students.
<b>Prerequisites required</b>	None, as it is an introductory course.
<b>Recommended reading</b>	<ul style="list-style-type: none"> <li>• OccupyTheWeb. Linux Basics for Hackers: Getting Sarterd with Networking, Scripting, and Security in Kali, 9th Edition. 2019. No Starch Press. ISBN: 978-1-59327-855-7.</li> <li>• Jon Erickson. Hacking: The Art of Exploitation, 2<sup>nd</sup> Edition. No Starch Press. ISBN: 978-1-59327-144-2</li> </ul>