

WHITE HAT HACKING



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White Hat Hacking: Your Guide to Ethical Digital Defense



Dr. Annu Paul and Capt. Jobin Varghese P



Excellent Publishers

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PREFACE

Dear Reader,

Welcome to '**White Hat Hacking: Your Guide to Ethical Digital Defense**,' a textbook specifically designed for students pursuing Value-Added Courses at Mahatma Gandhi University, Kottayam, especially those from non-Computer Science backgrounds. In an increasingly digital world, understanding cybersecurity isn't just for tech experts; it's a vital skill for everyone. This book aims to demystify the complex world of hacking by focusing on its ethical applications – how we can use the mindset and techniques of hackers to protect ourselves and our digital communities.

This guide will walk you through the fundamental concepts of digital security, introducing you to the methods used by both malicious and ethical hackers in a clear, easy-to-understand language. We'll use simple analogies and real-life examples to make complex ideas approachable, ensuring you grasp the core principles without getting lost in technical jargon. Our goal is not to turn you into a coding wizard, but to empower you with the knowledge to identify risks, understand how systems can be exploited, and, most importantly, become a responsible and proactive digital defender.

We believe that by understanding how vulnerabilities are found and exploited, you'll be better equipped to safeguard your own digital footprint and contribute to a safer online environment for everyone.

Sincerely,

Dr. Annu Paul
Capt. Jobin Varghese P

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Dr. Annu Paul is currently an Assistant Professor in Computer Science at the Department of Computer Science, Alphonsa College, Pala. She began her teaching career in 2005 and has been actively involved in academia ever since. Dr. Annu Paul holds a Ph.D. in Computer Science, specializing in Cybersecurity, Artificial Intelligence & Machine Learning, and has published many academic papers.

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