



## UP System Information Technology Foundation, Inc.

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<b>Course Title:</b>	<b>Web Application Penetration Testing</b>
<b>Duration:</b>	Five (5) Days
<b>Class Schedule:</b>	9:00am to 5:00pm
<b>Total Hours:</b>	35 Hours
<b>Target Participants:</b>	Government and Private I.T. Personnel, Members of the Academe, College Graduates of Computer Science and I.T. related courses, General Security Practitioners and Web Application Developers.
<b>Course Pre-requisite:</b>	The course requires basic knowledge in Linux OS, Website Application, HTTP, and different Programming Languages.
<b>Course Description:</b>	The course covers principles of computer systems and website application security. We will discuss various attack techniques and how to defend against them. Topics include hacking attacks and defenses, operating system holes, web security, social engineering attacks, data privacy act of 2012, and cybercrime act of 2012. Course projects will focus on breaking website applications, computer system, and understanding attacks.
<b>Course Goals:</b>	By the completion of this course, the students will learn the important concepts and principles applied to Cyber Security.
<b>Teaching Methods &amp; Strategies:</b>	<ul style="list-style-type: none"><li>• Lecture-Demonstration</li><li>• Group Work</li><li>• Online Discussion</li><li>• Lab Activities</li></ul>
<b>Required Materials:</b>	<ul style="list-style-type: none"><li>• Laptop with Kali Linux Operating System</li></ul>
<b>Course Contents:</b>	<ul style="list-style-type: none"><li>➤ Introduction and Information Gathering</li><li>➤ Different hacking attacks using different tools</li><li>➤ Writing a Vulnerability Assessment and Pentesting Report</li><li>➤ Introduction to Bug Bounty Hunting</li><li>➤ Introduction to Capture the Flag and CTF Competition</li><li>➤ Discussion about Data Privacy and Cybercrime Prevention Act of 2012</li></ul>

### Reading Materials:

"Penetration Testing: A Hands-On Introduction to Hacking" by Georgia Weidman  
"The Basics of Hacking and Penetration Testing" by Patrick Engebretson

