# PENETRATION TESTING AND VULNERABILITY ANALYSIS LAB SYLLABUS

1. Perform a track of information about Domain Registrars and DNS by lookup technologies

2. Perform various Port Scanning methodologies to identify the misconfiguration issues about the infrastructure.

3. Analyze the traffic routing and information carried among the network through Wireshark

4. Exploit threats and mitigation strategies for, ARP Spoofing, IP Spoofing,

5. Demonstrate various approaches followed on password breaking methodology.

6. Perform and analyze the wireless network to identify their weakness around access points with defensive mechanisms around it.

7. Apply various payloads to gain various categories of backdoor access of a machine using Metasploit and Meterpreter.