

**KARPAGAM ACADEMY OF HIGHER EDUCATION**  
(Deemed University Established Under Section 3 of UGC Act 1956)  
Coimbatore - 641021.  
(For the candidates admitted from 2016 onwards)  
**DEPARTMENT OF COMPUTER SCIENCE**

<b>16CSU511A</b>	<b>INFORMATION SECURITY - PRACTICAL</b>	<b>Semester – V</b> <b>4H – 2C</b>
------------------	---	---------------------------------------

---

<b>Instruction Hours / week: L: 0 T: 0 P: 4</b>	<b>Marks: Int : 40 Ext : 60</b>	<b>Total: 100</b>
---	---------------------------------	-------------------

1. Demonstrate the use of Network tools: ping, ipconfig, ifconfig, tracert, arp, netstat, whois
2. Use of Password cracking tools : John the Ripper, Ophcrack. Verify the strength of passwords using these tools.
3. Perform encryption and decryption of Caesar cipher. Write a script for performing these operations.
4. Perform encryption and decryption of a Rail fence cipher. Write a script for performing these operations.
5. Use nmap/zenmap to analyse a remote machine.
6. Use Burp proxy to capture and modify the message.
7. Demonstrate sending of a protected word document.
8. Demonstrate sending of a digitally signed document.
9. Demonstrate sending of a protected worksheet.
10. Demonstrate use of steganography tools.
11. Demonstrate use of gpg utility for signing and encrypting purposes.