

Program Code & Semester: B.Tech (IT)- 5<sup>th</sup> Semester.

Paper Title: Network Security  
Tutorial and Practical Assignment - Voluntary (Component 1)

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**Important Note: The group members have to prepare the implementation report and presentation**

1. **Practical: SQL** - Create a web page and perform various levels of SQL injection attack. Also, try the protection mechanism.
2. **Practical: CSS/CSRF** - Create a web page and perform various levels of CSRF/CSS attack. Identify and apply the protection mechanism.
3. **Practical - Buffer Overflow Attack** - Based on available infrastructure perform the Heap and Stack overflow attack?
4. **Practical: Port Knocking** - Implement Port knocking concept
5. **Practical: Cookie** - Analyse the cookie of different sites through Wireshark and browser.
6. **Practical: Access** - Apply the HTTP authentication for session management using the .htaccess. Also, prevent the direct web access of files. That means, the files should be accessed after the login session not directly.