**CSE490: Introduction to Computer Security**

**Lab Outline:**

* The laboratory works will be based on theory classes where several programming as well as in-site exercises will be carried out.

| **Week** | **Topic** |
| --- | --- |
| **1** | Introduction to command line environment (Linux) |
| **2** | Introduction to command line environment (Linux) |
| **3** | OpenSSL Lab + GHEX |
| **4** | Secure Programming (Mini Project - 2 weeks home task) |
| **5** | OS Hardening |
| **6** | Web Applications Security-Apache + HTTPS |
| **7** | Web Applications Security: XSS + SQLI |
| **8** | Password Storage and Cracking |
| **9** | Malware analysis |
| **10** | Usability Assessment (Cognitive Walkthrough) |

**Marks Distribution:**

Obtained marks will be converted to 25.

| **Assessment** | **Marks** |
| --- | --- |
| Lab Activity | 10 \* 3 = 30 Marks |
| Attendance | 5 Marks |
| Project | 7.5 Marks |
| **Total** | **42.5 Marks** |