

**Philadelphia University**

**Faculty of Information Technology**

**First Semester, 2022-2023**

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| **Assignment 1 – Introduction to Information Security** | |
| **Course title: Software Engineering for Secure Systems** | **Course code:** 0721725 |
| **Course level:** MSc | **Course prerequisite:** Computer Networks |
| **Lecture time:** Saturday, 09:00 – 12:00 | **Credit hours:** 3 |

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|  | **Academic Staff Specifics** | | |  |
| **Name** | **Rank** | **Office location** | **Office hours** | **e-mail address** |
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Q1: Computer Viruses,

1. Define Computer Viruses
2. Explain how can they spread
3. Watch the following two Videos in the link:
   1. <https://www.youtube.com/watch?v=4gPFCHMhLBs>
   2. <https://www.youtube.com/watch?v=IHGSdvKY0aM>
4. Create your own Virus with small discussion about what it can do.

Q2: Watch the following two videos and write one page report explain the differences between SQL injection and Script Cross Cite.

1. <https://www.youtube.com/watch?v=cbmBDiR6WaY>
2. <https://www.youtube.com/watch?v=J6v_W-LFK1c>

Q3: Play the following GAME and document the syntax to pass each level

<https://xss-game.appspot.com/level1>

Q4: How to login to the following website without having a username or password

<https://www.codingame.com/playgrounds/154/sql-injection-demo/sql-injection>

Q5: The key logger,

1. Define key logger and its functionality
2. Explain how it can be Software or Hardware
3. Discuss the advantages and disadvantages of each type.