

## Pre-Requisite Cyber Security -Individual Assignment

Submission Date: **29 JUNE 2024**

### Task 2

Student is required to choose ONE (1) area/field and complete an overview/survey research paper. The selection of the area/field is NOT LIMITED to the list below.

#### A) Mobile Cyber Security

1. Detecting mobile phone hacking.
2. Assessing the threat of using portable devices to access banking services.
3. Cybersecurity and mobile applications.
4. The vulnerabilities in wireless mobile data exchange.
5. The rise of mobile malware.

#### B) Computer and Software Security

1. Algorithms for data encryption
2. Concept of risk management security
3. Ransomware attack on any environment
4. What are the effects of RSA on network security?
5. DDoS attacks on IoT devices

#### C) Information Security

1. Relationship between privacy and data security
2. White hat and black hat hackers
3. Secure methods for ensuring data integrity
4. Data breaches in 2022 - 2023
5. Social engineering and its importance

#### D) Network Security

1. Data storage centralization
2. Firewall
3. Network segmentation and its applications
4. Data Loss Prevention
5. Methods for establishing secure algorithms in a network.
6. Zero Trust Platform

#### E) Cybersecurity Law & Ethics

1. Importance of the Cybersecurity Information Sharing Act.
2. Malaysia and other countries' cybersecurity laws

**Deliverables of TASK:**

You are encouraged to consider following rubrics on your overview/survey research paper as below:

- Abstract/Introduction
- Literature Review
- Findings and outcomes
- Methodology and Techniques
- Conclusion/Future works and Recommendation

**NOTE:** A sample will be displayed for your reference during first class.

**Assignment Criteria (Marking breakdown)**

| Criteria                                   | Marks     | Marks Awarded |
|--|-----------|---------------|
| <b>TASK 1 – Individual (40%)</b>           |           |               |
| Class Activity 1                           | <b>20</b> |               |
| Class Activity 2                           | <b>20</b> |               |
| <b>Sub Total Mark (Task-1)</b>             |           |               |
| <b>TASK 2 – Individual – Paper (60%)</b>   |           |               |
| Abstract/Introduction                      | <b>10</b> |               |
| Literature Review                          | <b>10</b> |               |
| Findings and outcomes                      | <b>20</b> |               |
| Methodology and Techniques                 | <b>10</b> |               |
| Conclusion/Future works and Recommendation | <b>10</b> |               |
| <b>Sub Total Mark (Task-2)</b>             |           |               |
| <b>(T1(40) +T2(60)) Total Mark</b>         |           |               |

**Submission Requirements**

1. Assignment is to be submitted through online submission in Moodle.
2. Students are advised to underpin their answers with the use of references (cited using the APA Name System of Referencing).
3. Late submission will be awarded zero (0) unless Extenuating Circumstances (EC) are upheld.
4. Your report must be typed using Microsoft Word with Times New Roman font and size 12 and it should be in 1.5 spaces.
5. Every report must have a front cover. The front cover should have the following details: -

- a) Name
  - b) Intake code
  - c) Module Title
  - d) Module Lecturer
  - e) Project Title
  - f) Date Assigned (the date the report was handed out).
  - g) Date Completed (the date the report is due to be handed in).
6. The report should not exceed 3000 words excluding Table of Contents, References and Appendices (if any).