

**Date Assigned: 21 – Nov - 2024**

**Date Due: 07 – Feb - 2025**

**Lecturer: Dr. Mohamed Shabbir**

**Assignment Overview:** This assignment will contribute **60%** towards the in-course marks and consists of one individual task as follows:

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## Individual Assignment CLO1 & CLO2:

This section is **individual** research on the **digital forensics procedure and the latest techniques involved in data collection, memory imaging, and hard disk acquisitions (use of tools)**. This section carries **60%** of the total assessment marks.

### Case Study

An employee working for a reputable IT company was a key **suspect in several malicious and illegal activities** over the network. Upon investigation, the employee has strongly denied allegations of involvement in any sort of malicious activities over the company's network. A digital forensics team involving a first responder acquired the **memory image from the employee's computer hard disk** and passed it to the computer forensics department for further investigation.

As a forensics analyst, your job is to **prove or disprove the allegations** of the company against the employee.

### Guidelines for the Report:

Document the results of your work in a professional and systematic manner, in a way that is admissible in a court of law. Referring to the case above, your **report should include** the following:-

#### 1) Digital Forensics Procedure (30%)

- Executive summary
- Authorization and preparation
- Evidence handling

#### 2) Practical Investigation (30%)

- Analysis and examination
- Reconstruction and reporting
- Conclusion

### 3) **Appendix**

- Evidence of study
- E.g. screenshots, video, photos (if doing site visiting), survey forms, authorization forms, hardware and software list etc.)

### **Guidelines for the submission of final reports**

Document the results of your work professionally and systematically, in the form of a **computerized report**. **One (1)** softcopy of the document is to be submitted online on Moodle platform.

Your completed documentation should contain the following: -

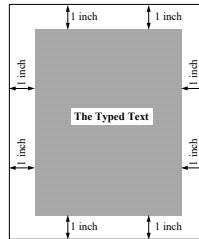
1. Cover page
2. Table of contents
3. Writing of your Individual component
4. Conclusion
5. References
6. Appendices if any

### **Guidelines for the submission of video recording**

You are required to submit a **short video recording (10 – 15 minutes)** explaining your findings or results of the case investigated above. The video recording submission link will be provided by your lecturer.

### **Submission requirements**

1. Your report must be typed using Microsoft Word with Times New Roman font. You need use to include a word count at the end of the report (excluding title, source code of program & contents pages) Report should be in 1.5 spaces.
2. The report has to be well presented and should be *typed*. Submission of reports that are *unprofessional* in its outlook (dirty, disorganized, inconsistent look, varying colored paper and size) will not fare well when marks are allocated.
3. The report should have a one (1”) margin all around the page as illustrated below:



4. Every report must have a *front page*. The front page should have the following details: -
- Name
  - Intake code.
  - Subject.
  - Project Title.
  - Date Assigned (the date the report was handed out).
  - Date Completed (the date the report is due to be handed in).
5. **All** information, figures and diagrams obtained from external sources **must** be referenced using the APA referencing style.

### MARKING SCHEME

Individual Assignment (60%):	
<ul style="list-style-type: none"> <li>- Explain the procedures of digital evidence collection, preservation, and analysis using best practices and industrial methodologies (C6, PLO2)</li> <li>- Perform first responder procedure and forensics analysis using appropriate tools (A5, PLO6)</li> </ul>	
Criteria	Remarks
9% Executive Summary and Introduction (15)	
9% Authorization and preparation (15)	
6% Evidence handling (10)	
12% Analysis and examination (20)	
6% Reconstruction and reporting (10)	
6% Conclusion (10)	
Citations (in-text referencing, references list) (10)	
6% Video recording Presentation (10)	
<b>Total (100)</b>	