

ASSIGNMENT ONE

Assignment 1 constitutes part of in-course assessment of 25% of this module.

OBJECTIVES

Mobile devices and smartphones may contain useful information for investigation or forensics purposes. As such, Mobile forensic is an important sub-branch within the digital forensic domain relevant to the extraction of digital evidence from portable and/or mobile devices.

The learning objective of this assignment is to reinforce the concepts and principles covered in Mobile Forensics. Your team shall choose a topic related to **MOBILE FORENSICS** for your assignment to:

- Conduct a research for the assigned topic; and
- Present and produce a technical report for the assigned topic.

INSTRUCTIONS

1. You are to complete this assignment in groups of 3 – 4 (maximum) members.
2. Present your team's findings during lab hours. Presentation is to be done in week 7 (27th Nov – 1st Dec 2023). Presentation time including Q&A for each team is 12 minutes. **Do not exceed presentation time.**
3. A softcopy of the report plus presentation slides are to be submitted to instructor **by 8th Dec 2023 (Friday) 2359.**
4. 50% of the marks will be deducted for assignments that are received within ONE calendar day after the submission deadline. No marks will be given thereafter.
5. Exceptions to this policy will be given to students with valid LOA on medical or compassionate grounds. Students in such cases will need to inform the lecturer as soon as reasonably possible.

REPORT REQUIREMENTS

1. **Proper report structure** including cover page, content page and documentation of your work and task allocation.
2. Cover page of your report should include:
 - Module name and code
 - Course and class
3. Name of students in the assignment group

4. Guidelines for report is as follow. The % indicated below is the % of your report contents.
 - **Introduction:** – Why team decides to choose a particular topic. What is the topic about? – 10%
 - **Technical write up:** – Including current trends/technical processes/possible tools used/challenges/opportunities – 40%.
 - **Individual write up:** – *Tasks allocation and reflections. Take away from the assignment – 30%.
 - **Conclusion:** – Assignment team's view about the topic – 20%
5. Task Allocation
 - Breakdown of tasks assigned to individual group members. Contribution to the assignment team.
6. Length of report
 - The total length between 18 to 20 A4 pages. This does not include appendices, tables, learning reflection and diagrams.
7. Research
 - Do not copy wholesale the information you found on the Internet. Instead you should explain in your own words. Very little marks will be awarded for wholesale copying.
 - Turnitin – Similarity Report Checker will be applied to your Written Report.
 - Please check your work before submission.
 - Only up to 3 submissions [Maximum].
8. References – Important!!
 - If you use any materials in your report, please quote the reference.
 - You can refer to books, journals, or online resources.
9. Declaration of Academic Integrity
 - All assignment teams are required to fill up the above form. Please find out more from your tutor.

ASSESSMENT CRITERIA

The assessments of the assignment will be as follows:

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| • Report – Proper Report Format | (15 marks) |
| • Technical contents – Overview, technical contents and clarity | (35 marks) |
| • Completeness of topic – Both in report and presentation | (10 marks) |
| • Presentation | (20 marks) |
| • Individual score – Both in report writing and presentation | (20 marks) |

POSSIBLE TOPICS

1. Manual and logical acquisition
2. Physical acquisition
3. Current developments in mobile forensics.
4. iPhone forensics
5. Android Forensics
6. Challenges in mobile forensics
7. Mobile devices anti-forensics
8. Developing process for examining cellular phone information
9. Evaluation and analysis of Mobile Forensic Tools
10. Mobile Forensics Tools and Techniques
11. Forensics on Flash Memory in Mobile Devices
12. Forensics on Wearable Devices
13. File Systems on Mobile Devices
14. Mobile forensics on GPS data
15. Recent advances in mobile forensics
16. An Analysis of the Digital Forensic Examination of Mobile Phones
17. Digital Forensics for the Internet of Things (IoT)
18. AI and Digital Mobile Forensic
19. Mobile Forensics challenges from Law Enforcement Perspective
20. Challenges in the field of iOS device forensics

The groups are free to propose any topic that is not listed above, please approach your instructor(s) for consultation and confirmation on your newly proposed topic.

Instructor may interview you on your report to ascertain that you did the work yourself. Failure to explain any part of your report may result in a failure for this assignment.

Warning:

Plagiarism means passing off as one's own the ideas, works, writings, etc., which belong to another person. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turning it in as your own, even if you would have the permission of that person.

Plagiarism is a serious offence, and if you are found to have committed, aided, and/or abetted the offence of plagiarism, disciplinary action will be taken against you. If you are guilty of plagiarism, you may fail all modules in the semester, or even be liable for expulsion.

-- The End --