

PRE ARRIVAL ACTIVITY

Undergraduate Programme *Academic Year 2021/22*

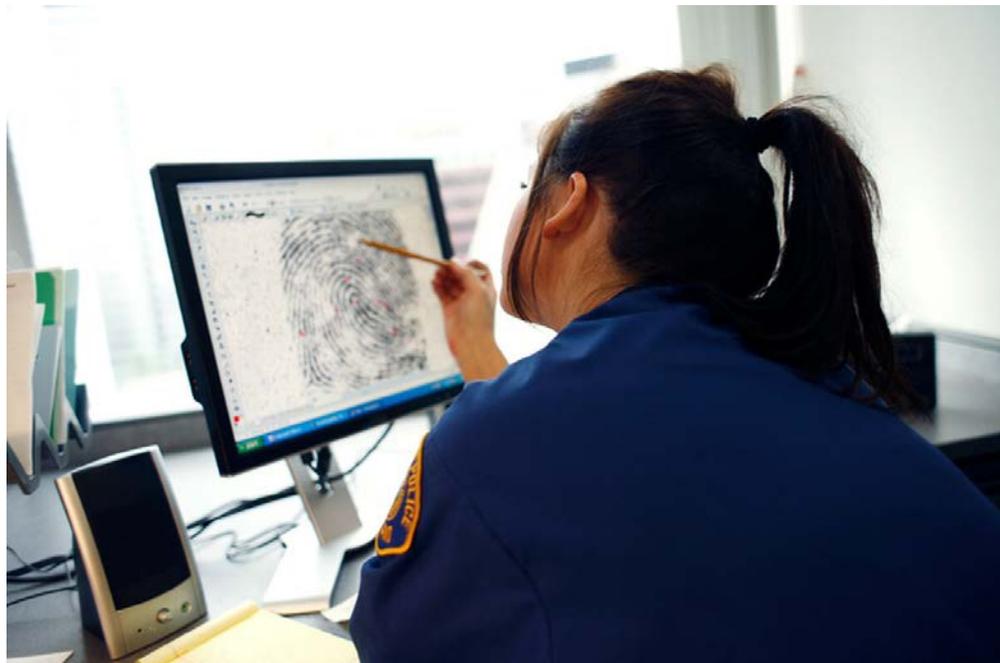
Module:	Pre-Arrival Activity – Digital Forensics
Assignment Title:	Digital Forensics Primer
School:	Computing and Digital Technology
Co-ordinator:	Shahid Shabbir
Set Date:	August 2021
Assessment Weighting:	0% - Pre assessment coursework
Submission Method:	Discussion based submission – you will share this on Teams in your tutor group.
Nominal time to complete this assignment:	2 hours
Assessment Details	<p>Activities:</p> <ul style="list-style-type: none"> • Task 1 Why digital forensics? <ul style="list-style-type: none"> ○ Write a simple 200 word passage ○ A group discussion • Task 2 Where can you find digital evidence? <ul style="list-style-type: none"> ○ A group discussion • Task 3 Simple practical exercises for you to have a go at. <p>Be ready to discuss these in a small MS Teams tutor group meeting in Welcome Week or the first weeks of term.</p> <p>Purpose: You are about to start the Digital Forensics degree course at Birmingham City University.</p> <p>For some, the decision to go to University to study will be easy, but for many of us it can be daunting. The purpose of the activity is to get you to think about your decision and briefly explain it to others in a relaxed and casual setting.</p>

In your first year you will work with others in your tutor group on group assignments. This first task will help you get to know each other better. You will be surprised at the variety of pathways people have taken and the different aspirations you all have.

You will share your screen in an online meeting using Teams – this will also get you used to using Teams functions for doing your studies together.

Task: 1

- What inspires you to pursue a career in Digital Forensics? (Write ~200 Words, to be discussed during a Teams group tutor session).
- What does a digital forensics practitioner do for a living? Which of the following images best describes what a digital forensics graduate will do in a typical day at work and why? (To be discussed during a Teams group tutor session).







Task: 2:

The image below depicts a typical, but fictitious, crime scene. Which sources of digital evidence can you identify that may prove useful in an investigation?



Task: 3

Try these ice-breaker introductory exercises; they may be simple and fun but will get you thinking! The resource files are available on the Computing Induction 2021 Moodle page under the BSc/MSci Digital Forensics section.

Exercise 1

1. Download the Lab01.zip file from the module website. Unzip the contents of the zip file to your local-drive or a USB memory stick.
2. Double-click on TestFile.htm and view its contents. Does it appear to have anything of any consequence?
3. Close the Testfile.htm by closing internet browser.
4. Right-click on Testfile.htm and select Open With and then Microsoft Office Word.
5. Scroll down until you locate the text in what appears to be in Wingdings2 font.
6. Change the font of the Wingdings2 test to Arial. What have you come across?
7. Now scroll down to the line that says "End of File".
8. Hold your mouse button and drag to the bottom of the file, selecting what appears to be an empty part of the file. A few lines should darken as is something was selected.
9. With something selected change the font colour to black. What have you come across now?
10. Close the Testfile.htm and exit Microsoft Word without saving any changes!

Exercise 2

1. Create a new Microsoft Word file. Write some text to that file; anything, it's not critical.
2. Save and close the file.
3. Now, rename the file extension (by either right-clicking on the file and selecting Rename or by clicking once on the file and pressing F2) from ".doc" to ".xls". Does the file icon change from that of Microsoft Word to that of Microsoft Excel?
4. Double-click on this file to open it. What happens?
5. Now double-click on Testfile.doc. What do you see?
6. Close the file and rename its file extension to ".xls", its icon should change to that of a Microsoft Excel file.
7. Double click on this new Microsoft Excel file. What do you see? Can you explain this?
8. Close all the open files.

Exercise 3

1. Double-click Testfile2.doc to open it in Microsoft Word.
2. There are eleven hidden pieces of data in this file, can you find them?