

# Digital Forensics

## Module Information

2022.01, Approved

### Summary Information

Module Code	5105COMP
Formal Module Title	Digital Forensics
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

### Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	33

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

### Aims and Outcomes

Aims	To develop an understanding of the role of computer forensics analyst through the use of existing applications and investigative techniques.
------	--

**After completing the module the student should be able to:**

## Learning Outcomes

Code	Number	Description
MLO1	1	Explain the structure of files and the metadata contained within them.
MLO2	2	Apply practical knowledge of a number of computer forensic tools as used by practitioners in the field.
MLO3	3	Compare a range of appropriate methodologies used during an investigation and present the results of the investigation.
MLO4	4	Interpret the theoretical underpinnings of computer forensics.

## Module Content

Outline Syllabus	The module will cover the three phases of a computing forensics investigation: Search Phase: Search preparation, processing the crime or incident scene, securing evidence from the computer, data acquisition and identification of digital evidence sources. Need to ensure that the ACPO guidelines on Computer Forensics investigations are followed correctly. Analysis Phase: Preparing for a computer investigation, the structure and tools required in an investigator's environment, computer forensics software needs, current computer forensics software and hardware, the impact of file and operating systems on the investigation, computer forensics analysis, recovery and investigation of digital image (picture) files and investigating e-mail. Presentation Phase: Presenting and reporting the results of a Computer Forensics investigation.
Module Overview	
Additional Information	This module is intended to build on first year modules to introduce the students to the practicalities of conducting computer forensics investigations.

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Artefacts	Forensic Investigation	50	0	MLO1, MLO2, MLO3
Centralised Exam	Exam	50	2	MLO1, MLO4

## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Thomas Berry	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------