

# Digital Forensics

## Module Information

2022.01, Approved

### Summary Information

Module Code	5205COMP
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	22

### 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 investigator/analyst using existing applications and investigative techniques.
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**After completing the module the student should be able to:**

## Learning Outcomes

Code	Number	Description
MLO1	1	Apply practical knowledge of computer forensic tools as used by practitioners in the field.
MLO2	2	Compare a range of appropriate methodologies used by an investigation team and present the results of the investigation as a team.
MLO3	3	Interpret the theoretical underpinnings of computer forensics.
MLO4	4	Apply computer forensics techniques to theoretical scenarios.

## 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 digital devices, data acquisition and identification of digital evidence sources. The requirement 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 and the current Computer Forensics software and hardware. The impact of file and operating systems on the investigation. Computer Forensics analysis, recovery and investigation of data such as the suspects files, internet history, e-mail, registry, unallocated space, etc. Presentation Phase: Presenting and reporting the results of a Computer Forensics investigation.
Module Overview	This module builds your core computer forensics skills required by you to work in the Computer Forensics industry. These skills will be applied by conducting a simulated Computer Forensics investigation.
Additional Information	This module is intended to build the core computer forensics skills required by the student to work in the Computer Forensics industry. These skills will be applied to conducting a simulated Computer Forensics investigation.

## Assessments

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