

Forensic Investigatory Practice

Module Information

2022.01, Approved

Summary Information

Module Code	6203COMP
Formal Module Title	Forensic Investigatory Practice
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours
Lecture	12
Practical	12
Workshop	20

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 the expert witness in trials involving Computer Forensics. To identify a range of appropriate methodologies and tools used during an investigation. To perform analysis of forensic images and preparation for presentation of results in a court of law.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically analyse and apply techniques used by criminals to hide data
MLO2	2	Apply complex combinations of computer forensics techniques typically used in a modern legal case
MLO3	3	Critically evaluate the outcomes of a computer forensic image analysis
MLO4	4	Appraise legal issues arising from a computer forensic investigation and its presentation to a court of law
MLO5	5	Communicate complex technical information resulting from a computer forensics investigation appropriate for a legal context such as a court trial

Module Content

Outline Syllabus	Identification of techniques used by criminals to commit crimes on digital devices, Preparing a digital device for investigation, Processing the crime or incident scene, Search preparation and the tools required to perform a search, Securing evidence from a digital device, Data acquisition and the use of write blockers, Reporting the results of an investigation, The role of the expert witness in a court of law, English Law and its application to Computer Forensic investigations, Maintaining the chain of custody to ensure the integrity of evidence.
Module Overview	This module provides you with an understanding of Computer Forensics investigations and the presentation of evidence in a court of law. You will develop your understanding of the role of the expert witness in trials involving Computer Forensics and learn to identify a range of appropriate methodologies and tools used during an investigation. The assessment is structured around the phases of a computer forensic investigation, starting with the 'crime', its analysis and finally the presentation of evidence.
Additional Information	To provide an understanding of Computer Forensics investigations and the presentation of evidence in a court of law. The assessment is structured around the phases of a computer forensic investigation, starting with the 'crime', its analysis and finally the presentation of evidence. Where normally a module would have two items it practice with this module it makes more sense to pause to assess after each phase, as they are dependent on the previous phase.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Technology	Simulated Crime	20	0	MLO1
Presentation	Forensic Presentation	30	0	MLO5
Report	Forensic Report	50	0	MLO2, 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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