H8IDFA: An Introduction to Digital Forensics and Auditing

Module Code:	H8IDFA
Long Title	An Introduction to Digital Forensics and Auditing APPROVED
Title	An Introduction to Digital Forensics and Auditing
Module Level:	LEVEL 8
EQF Level:	6
EHEA Level:	First Cycle
Credits:	5
Module Coordinator:	Simon Caton
Module Author:	Vikas Sahni
Departments:	School of Computing
Specifications of the qualifications and experience required of staff	

Learning Outcomes

On successful completion of this module the learner will be able to:

#	Learning Outcome Description
LO1	Describe and explain what a digital investigation is, the sources of digital evidence, along with potential challenges and limitations of forensic.
LO2	Illustrate how data collection is accomplished whilst ensuring the integrity of the original and forensics copy.
LO3	Illustrate how data collection is accomplished whilst ensuring the integrity of the original and forensics copy.

Dependencies

Module Recommendations

No recommendations listed

Co-requisite Modules

No Co-requisite modules listed

Entry requirements	

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Module Content & Assessment

Indicative Content
Basic Principles and methodologies for digital forensics Design systems with forensic needs in mind Rules of Evidence general concepts and differences between jurisdictions and Chain of Custody Search and Seizure of evidence: legal and procedural requirements
Auditing Identification and application of framework criteria (e.g. ISO 27001, PCI DSS) Identifying the area of concern to maintain impartiality consistency Contractual obligations / limitations: right to investigate or audit Challenges: Privacy, collusion, encryption

Assessment Breakdown	%
Coursework	50.00%
End of Module Assessment	50.00%

Assessments

Reassessment Requirement
Repeat examination *Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.*

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Module Workload

Module Target Workload Hours 0 Hours

Workload: Part Time

Workload Type	*Workload Description*	*Hours*	*Frequency*	*Average Weekly Learner Workload*
Lecture	No Description	24	Every Week	24.00
Tutorial	No Description	12	Every Week	12.00
Independent Learning	No Description	89	Every Week	89.00
			Total Weekly Contact Hours	36.00

Module Resources

Recommended Book Resources

Messier, Ric.. (2015), Operating System Forensics., Syngress, [ISBN: 0128019492].

Supplementary Book Resources

Nelson, Bill, Amelia Phillips and Christopher Steuart. (2015), Guide to Computer Forensics and Investigations, [ISBN: 1285060032].

Sammons, John.. (2015), Digital Forensics: Threatscape and Best Practices., Syngress, [ISBN: 0128045264.].

Spann, Delena D. (2013), Fraud Analytics: Strategies and Methods for Detection and Prevention., Wiley, [ISBN: 111823068X].

Albert J. Marcella, Frederic Guillossou, Fredrick Guillossou.. Cyber forensics, Chichester; John Wiley & Sons, [ISBN: 1118273664].

This module does not have any article/paper resources

This module does not have any other resources

Discussion Note:	