

Liverpool John Moores University

Title: COMPUTER FORENSIC INVESTIGATIONS AND THE
CRIMINAL JUSTICE SYSTEM
Status: Definitive
Code: **6047BECK** (118385)
Version Start Date: 01-08-2011

Owning School/Faculty: Computing and Mathematical Sciences
Teaching School/Faculty: Beckett College London

Team	Leader
Thomas Berry	Y

Academic Level: FHEQ6 **Credit Value:** 24.00 **Total Delivered Hours:** 72.00
Total Learning Hours: 240 **Private Study:** 168

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	12.000
Practical	30.000
Workshop	30.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	A group report to investigate a simulated crime. The submission must include a peer assessment report.	70.0	
Presentation	AS2	Presentation of results in court based scenario.	30.0	

Aims

To develop an understanding of the role of the expert witness in trials involving computer forensics.

Identify a range of appropriate methodologies and tools used during an investigation.

Analysis of forensic images and preparation for presentation of results in a court of law.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate search and seizure procedures and preparation for taking an image of a storage device.
- 2 Analysis of a forensic image and preparation of a report of the findings.
- 3 Identify the legal issues relating to presenting evidence in a court of law.
- 4 Present evidence in the guise of an expert witness.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Simulated crime	1	2	3
Court scenario	4		

Outline Syllabus

*Preparing a computer for investigation,
Processing the crime or incident scene,
Search preparation and the tools required to perform a search,
Securing evidence from the computer,
Data acquisition and the use of write blockers,
Identification of digital evidence on mobile devices,
Reporting the results of the investigation,
The role of the expert witness,
English Law and its application to computer forensic investigations,
Maintaining the chain of custody to ensure the integrity of evidence.*

Learning Activities

Lectures and practical work. The practical work builds on core forensic computing and English law concepts covered in the lectures.

References

Course Material	Book
Author	Nelson, B., Enfinger, F., Phillips, A. and Steuart, C.
Publishing Year	2007
Title	Guide to Computer Forensics and Investigations

Subtitle	
Edition	3rd Edition
Publisher	Course Technology
ISBN	978-1418067335

Course Material	Book
Author	Bunting, S.
Publishing Year	2007
Title	EnCE The Official Encase Certified Examiner
Subtitle	
Edition	2nd Edition
Publisher	John Wiley & Sons
ISBN	978-0470181454

Course Material	Book
Author	Wild, C. and Weinstein, S.
Publishing Year	2010
Title	Smith and Keenan's English Law
Subtitle	
Edition	16th Edition
Publisher	Pearson Longman
ISBN	9781408218884

Course Material	Book
Author	Bainbridge, D.
Publishing Year	2007
Title	Introduction to Information Technology Law
Subtitle	
Edition	6th Edition
Publisher	Trans-Atlantic Publications
ISBN	9781405846660

Course Material	Website
Author	
Publishing Year	
Title	Digital Investigation, The International Journal of Digital Forensics & Incident Response
Subtitle	http://www.elsevier.com/wps/find/journaldescription.cws_home/702130/description#description
Edition	
Publisher	
ISBN	

Notes

To provide an understanding of computer forensics investigations and presentation

of the results in a court of the law.