

Liverpool John Moores University

Title: FORENSIC COMPUTING
Status: Definitive
Code: **6023COMP** (103007)
Version Start Date: 01-08-2011

Owning School/Faculty: Computing and Mathematical Sciences
Teaching School/Faculty: Computing and Mathematical Sciences

Team	Leader
Denis Reilly	Y

Academic Level: FHEQ6
Credit Value: 12.00
Total Delivered Hours: 38.00
Total Learning Hours: 120
Private Study: 82

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	12.000
Practical	12.000
Tutorial	12.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Report	25.0	
Exam	AS2	Examination	75.0	2.00

Aims

To develop an understanding of the theory and practice of computer forensics.

Learning Outcomes

After completing the module the student should be able to:

- 1 Explain the fundamental technical concepts, implementation, and restrictions of computer forensics in law enforcement, national security and the organisation.
- 2 Develop practical skills in computer forensics.
- 3 Analyse and evaluate physical and data evidence and processes in computer forensics.
- 4 Critically evaluate recent research in the field of computer forensics.

Learning Outcomes of Assessments

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

Report	2	3	
Exam	1	3	4

Outline Syllabus

The course outline includes:

Overview of computer forensics, the basics of hard drives and storage, the incident response process, preparing for incident response, data collection, network traffic collection, evidence handling, forensic analysis, analysis of other evidence, reporting and documentation, encryption and forensics, and hostile code.

The practical laboratory exercises will develop skills in data and evidence collection from both Window and UNIX computers.

Learning Activities

Practical laboratory exercises, supporting the lectures and tutorials.

References

Course Material	Book
Author	Proise, C. & Mandia, K.
Publishing Year	2003
Title	Incident Response and Computer Forensics'
Subtitle	
Edition	
Publisher	McGraw Hill
ISBN	007222696X

Course Material	Book
Author	Kruse, G & Heiser, J
Publishing Year	2001
Title	Computer Forensics Incident Response Essentials
Subtitle	

Edition	
Publisher	Addison Wesley
ISBN	0-201-70719-5

Course Material	Book
Author	Jones, K.J., Bejtlich, R. & Rose, C.W.,
Publishing Year	2005
Title	Real Digital Forensics
Subtitle	
Edition	
Publisher	Addison-Wesley
ISBN	0-321-24069-3

Notes

This advanced course is intended for graduate students interested in the field of computer forensics. The purpose of the course is to provide the fundamental technical concepts essential for computer forensic investigation.