University of the West of Scotland

Module Descriptor

Session: 2024/25

Title of Module: Fundamentals of Digital Forensics						
Code: COMP11079	SCQF Level: 11 (Scottish Credit and Qualifications Framework)	Credit Points: 10	ECTS: 5 (European Credit Transfer Scheme)			
School:	School of Comput	ng, Engineering ar	nd Physical			
Module Co-ordinator:	Sean Sturley					
Summary of Module						
This module introduces student detailed understanding of each interpretation and presentation Through a number of problem-t theoretical elements of forensic the use of forensic tools to bor image, to finally collating the e examination. This module will work to develo make those who complete this <u>Universal</u> • Critical Thinker • Ethically-minded • Research-minded <u>Work Ready</u> • Problem-solver • Effective Communicato • Ambitious <u>Successful</u> • Autonomous • Resilient	to the main concepts of stage of an investigat of conclusions. based scenarios the stu- investigation, from the th investigate and main evidence discovered to p a number of the key module:	of forensic investigation ition; from the initial udents will learn both the initial creation of a ntain the integrity of the present a case suita I am UWS' Graduate	on and allows for a seizure, analysis, the practical and forensic image, the forensic able to cross • Attributes to			

Module Deliv	very Method				
Face-To- Face	Blended	Fully Online	HybridC	Hybrid 0	Work-Based Learning
	\boxtimes				

See Guidance Note for details.

Campus(es) for Module Delivery

The module will **normally** be offered on the following campuses / or by Distance/Online Learning: (Provided viable student numbers permit) (tick as appropriate)

Paisley:	Ayr:	Dumfries:	Lanarkshire:	London:	Distance/Online Learning:	Other:
				\boxtimes		Add name

Term(s) for Module Delivery						
(Provided viable student numbers permit).						
Term 1		Term 2		Term 3		

Learn These appro At the	ing Outcomes should take opriate level fo end of this mo	a: (maximum of 5 statements) cognisance of the SCQF level descriptors and be at the r the module. dule the student will be able to:					
L1	Demonstrate a oprinciples utilised	critical understanding of the major forensics theories, concepts and d in digital investigations.					
L2	Develop and e	execute a digital examination strategy for a given scenario.					
L3	3 Investigate and assess various tactics within a legitimate crime scene study to evaluate digitally collected evidence by means of learned forensics practice and techniques.						
Emple	Employability Skills and Personal Development Planning (PDP) Skills						
SCQF	Headings	During completion of this module, there will be an opportunity to achieve core skills in:					
Knowl Under and U	ledge and standing (K)	SCQF Level 11 Students will have comprehensive knowledge of major forensics theories, concepts and principles utilised in digital investigations.					
Practic Knowl Under	ce: Applied ledge and rstanding	SCQF Level 11 Students will develop and execute a digital examination strategy for a given scenario. Students will also investigate and assess various tactics within a legitimate crime scene study to evaluate digitally collected evidence by means of learned forensics practice and techniques.					
Genei skills	ric Cognitive	SCQF Level 11 To complete their written reports and laboratory tasks, students will first build skills to integrate information and apply knowledge from various					

	sources including technology advances informed by research and industry.				
Communication,	SCQF Level 11				
Skills	Working in groups, stude the ability to write technic	ents will develop communication skills as well as cal reports and documentation.			
Autonomy, Accountability and Working with others	SCQF Level 11 Exercise a substantial ability to work autonomously, demonstrating critical inquiry in producing quality work underpinned by rigorous investigation. Learn effectively for the purpose of continuing personal development planning through interacting with others in academic and professional bodies and organisations relevant to m- business.				
	Demonstrate an ability to manage and work autonomously with a range of self-directed m- business related learning resources.				
Pre-requisites:	Before undertaking this module the student should have undertaken the following:				
	Module Code: Module Title:				
	Other:				
Co-requisites	Module Code:	Module Title:			

*Indicates that module descriptor is not published.

Learning and Teaching						
In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.						
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	Student Learning Hours (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)					
Lecture/Core Content Delivery	7					
Tutorial/Synchronous Support Activity	7					
Laboratory/Practical Demonstration/Workshop	14					
Independent Study	72					
	Hours Total 100					

**Indicative Resources: (eg. Core text, journals, internet access)

The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Cory Altheide and Harlan Carvey. (2011) Digital Forensics with Open Source Tools (1st Ed.). Syngress Publishing.

Gerard Johansen. (2017) Digital Forensics and Incident Response: A practical guide to deploying digital forensic techniques in response to cyber security incidents. Packt Publishing.

David Watson. (2013) Digital Forensics Processing and Procedures: Meeting the Requirements of ISO 17020, ISO 17025, ISO 27001 and Best Practice Requirements. Syngress Publishing.

Please ensure the list is kept short and current. Essential resources should be included, broader resources should be kept for module handbooks / Aula VLE.

Resources should be listed in Right Harvard referencing style or agreed professional body deviation and in alphabetical order.

(**N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the <u>Student Attendance and Engagement Procedure</u>: Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: <u>UWS Equality</u>, <u>Diversity and Human Rights Code</u>.

Please ensure any specific requirements are detailed in this section. Module Coordinators should consider the accessibility of their module for groups with protected characteristics.

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board

Assessment Results (Pass/Fail)	Yes □No ⊠
School Assessment Board	Business and Applied Computing
Moderator	Althaff Mohideen
External Examiner	N Coull
Accreditation Details	e.g. ACCA Click or tap here to enter text.
Changes/Version Number	1.06

Assessment: (also refer to Assessment Outcomes Grids below)

This section should make transparent what assessment categories form part of this module (stating what % contributes to the final mark).

Maximum of 3 main assessment categories can be identified (which may comprise smaller elements of assessment).

NB: The 30% aggregate regulation (Reg. 3.9) (40% for PG) for each main category must be taken into account. When using PSMD, if all assessments are recorded in the one box, only one assessment grid will show and the 30% (40% at PG) aggregate regulation will not stand. For the aggregate regulation to stand, each component of assessment must be captured in a separate box. Please provide brief information about the overall approach to assessment that is taken within the module. In order to be flexible with assessment delivery, be brief, but do state assessment type (e.g. written assignment rather than "essay" / presentation, etc) and keep the detail for the module handbook. Click or tap here to enter text.

Assessment 1 – Practical Examination (40%)

Assessment 2 – Coursework (60%)

(N.B. (i) **Assessment Outcomes Grids** for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed.

(ii) An **indicative schedule** listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Assessment Outcome Grids (See Guidance Note)

Component 1						
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Weighting (%) of Assessment Element	Timetabled Contact Hours	
Class Test (practical)	\checkmark		\checkmark	40	2	

Component 2						
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Weighting (%) of Assessment Element	Timetabled Contact Hours	
Clinical/ Fieldwork/ Practical skills assessment/ Debate/ Interview/ Viva voce/ Oral	~	~	~	60	8	

Combined Total for All Component	s 100%	10 hours
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