=University of the West of Scotland

Module Descriptor

Session: 2024/25

Title of Module: Threat Intelligence					
Code: COMP11099	SCQF Level: 11 (Scottish Credit and Qualifications Framework)	Credit Points: 10	ECTS: 5 (European Credit Transfer Scheme)		
School:	School of Computing, Engineering and Physical Sciences				
Module Co-ordinator:	Sean Sturley				

Summary of Module

This module provides students with an expert knowledege of threat intelligence. Students will develop the skills and techniques required to evaluate and improve an organisation's security policy through the use of feature and behaviour extraction to identify and track known and unknown security threats.

This module will work to develop a number of the key 'I am UWS' Graduate Attributes to make those who complete this module:

Universal

- Critical Thinker
- Ethically-minded
- Research-minded

Work Ready

- Problem-solver
- Effective Communicator
- Ambitious

Successful

- Autonomous
- Resilient
- Driven

Module Delivery 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)											
Paisle	y:	Ayr	r:	Dumfr	ies:	Lanarksh	nire:	London:	Distance/Onli Learning:	Distance/Online Learning:	
						\boxtimes		\boxtimes	□ Add r		Add name
Term(s) fo	r M	lodule	Deliver	ry						
(Provid	ded v	viab	le stud	ent nun	nber	s permit).					
Term '	1				Ter	m 2		\boxtimes	Term 3		
These appro	Learning Outcomes: (maximum of 5 statements) These should take cognisance of the SCQF level descriptors and be at the appropriate level for the module. At the end of this module the student will be able to:										
L1	L1 Demonstrate a critical understanding of threat intelligence theories and concepts.										
Apply the skills and knowledge to exploit and evaluate threat intelligence to analyse and defeat persistent threats.											
L3	Utilis	e sp	ecialise	d tools t	o eva	aluate and	disse	minate threa	at intelligence.		
Emplo	yab	ility	/ Skills	and P	erso	nal Deve	lopn	nent Plann	ning (PDP) Ski	lls	
SCQF	During completion of this module, there will be an opportunity to achieve core skills in:						oortunity to				
Understanding (K and U)			SCQF Level 11 Students will learn systematic and comprehensive knowledge of Threat Intelligence. Students are expected to be familiar with the key technologies and techniques and their application in practice.								
Practice: Applied Knowledge and Understanding		id	Students will gain in-depth, comprehensive understanding and critical awareness of knowledge of Threat Intelligence, and apply this in collection and analysis of information to help build a threat intelligence maturity model. They will also develop capability to apply a range of standard and specialised research skills, tools/software, development kit and related techniques in response to application requirements for their written assignment and lab tasks.					in collection naturity andard and nd related			
Gener skills	ic Co	ogni	itive	SCQF	Lev	el 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, ICT and Numeracy Skills	SCQF Level 11 Working in interacting groups, students will develop communication skills as well as the ability to write technical reports and documentation.				
Autonomy, Accountability and Working with others	SCQF Level 11 Each student will generate a comprehensive report summarising his/her finding for a given scenario.				
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.

The module will be delivered by means of lectures and supervised hands-on lab work. Lectures will cover the theoretical background and practical applicability in real life problems. Concepts will be introduced by posing a practical problem and working out the needed theoretical knowledge to solve them. The delivery will encourage student participation to ensure an active learning experience. Group discussions will be held to promote critical thinking and boost informed decisions on the suitability of different state-of-the-art methods. Lab exercises will help student develop their knowledge in incremental fashion using a learning-by-doing approach. This will support the development of knowledge and understanding of the topics.

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:

Dietle, J. (2016)Effective Threat Intelligence: Building and running an intel team for your organisation. CreateSpace Independent Publishing Platform

Roberts, S and Brown, R. (2016) Intelligence-Driven Incident Response. O'Reilly.

Robertson, J.et al (2017) Darkweb Cyber Threat Intelligence Mining. Cambridge University Press.

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	Computing
Assessment Results (Pass/Fail)	Yes □No ⊠

School Assessment Board	Business and Applied Computing
Moderator	Duncan Thomson
External Examiner	N Coull
Accreditation Details	e.g. ACCA Click or tap here to enter text.
Changes/Version Number	1.02

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 (3)	Weighting (%) of Assessment Element	Timetabled Contact Hours		
Class test (practical)	✓	✓	✓	40	2		

Component 2					
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Review/ Article/ Critique/ Paper	✓	✓	✓	60	8

Combined Total for All Componen	ts 100%	10 hours	
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