

# University of the West of Scotland

## Module Descriptor

Session: 2020/21

Last modified: 15/08/2019 09:06:08

### Title of Module: Threat Intelligence

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

### Summary of Module

This module provides students with an expert knowledge 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
	✓	

**Face-To-Face**

Term used to describe the traditional classroom environment where the students and the lecturer meet synchronously in the same room for the whole provision.

**Fully Online**

Instruction that is solely delivered by web-based or internet-based technologies. This term is used to describe the previously used terms distance learning and e learning.

**Blended**

A mode of delivery of a module or a programme that involves online and face-to-face delivery of learning, teaching and assessment activities, student support and feedback. A programme may be considered “blended” if it includes a combination of face-to-face, online and blended modules. If an online programme has any compulsory face-to-face and campus elements it must be described as blended with clearly articulated delivery information to manage student expectations

**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)

Paisley:	Ayr:	Dumfries:	Lanarkshire:	London:	Distance/Online Learning:	Other:
			✓			

**Learning Outcomes: (maximum of 5 statements)**

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

- L1. Demonstrate a critical understanding of threat intelligence theories and concepts.
- L2. Apply the skills and knowledge to exploit and evaluate threat intelligence to analyse and defeat persistent threats.
- L3. Utilise specialised tools to evaluate and disseminate threat intelligence.

**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:
Knowledge and 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	SCQF Level 11. 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.
Generic Cognitive	SCQF Level 11.

skills	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.

<b>Pre-requisites:</b>	Before undertaking this module the student should have undertaken the following:	
	<b>Module Code:</b>	<b>Module Title:</b>
	<b>Other:</b>	
<b>Co-requisites</b>	<b>Module Code:</b>	<b>Module Title:</b>

\* Indicates that module descriptor is not published.

### Learning and Teaching

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.

<b>Learning Activities</b> During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	<b>Student Learning Hours</b> (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
	100 Hours Total

**\*\*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.

(\*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 Requirements

In line with the Academic Engagement and Attendance Procedure, Students are defined as academically engaged if they are regularly engaged with timetabled teaching sessions, course-related learning resources including those in the Library and on Moodle, and complete assessments and submit these on time. Please refer to the Academic Engagement and Attendance Procedure at the following link: [Academic engagement and attendance procedure](#)

### Supplemental Information

<b>Programme Board</b>	Computing
<b>Assessment Results (Pass/Fail)</b>	No
<b>Subject Panel</b>	Business & Applied Computing
<b>Moderator</b>	Duncan Thomson
<b>External Examiner</b>	H Al-Khateeb
<b>Accreditation Details</b>	
<b>Version Number</b>	1.02

### Assessment: (also refer to Assessment Outcomes Grids below)

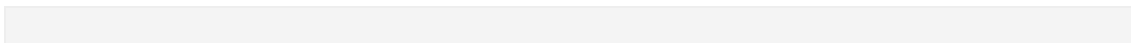
Practical Examination(40%)

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 Handbook.)

### Assessment Outcome Grids (Footnote A.)



## 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)	✓	✓	✓	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
<b>Combined Total For All Components</b>				100%	10 hours

### Footnotes

- A. Referred to within Assessment Section above
- B. Identified in the Learning Outcome Section above

### Note(s):

1. More than one assessment method can be used to assess individual learning outcomes.
2. Schools are responsible for determining student contact hours. Please refer to University Policy on contact hours (extract contained within section 10 of the Module Descriptor guidance note).  
This will normally be variable across Schools, dependent on Programmes &/or Professional requirements.

## Equality and Diversity

This module is suitable for any student. The assessment regime will be applied flexibly so that a student who can attain the practical outcomes of the module will not be disadvantaged. When a student discloses a disability, or if a tutor is concerned about a student, the tutor in consultation with the School Enabling Support co-ordinator will agree the appropriate adjustments to be made.

[UWS Equality and Diversity Policy](#)

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