University of the West of Scotland

Module Descriptor

Session: 2024/25

Title of Module: CCNA1: Intro to Networks			
Code: COMP07012	**SCQF Level: 7 (Scottish Credit and Qualifications Framework)**	**Credit Points: 20**	**ECTS: (European Credit Transfer Scheme)**
School:	School of Computing		
Module Co-ordinator:	Steve Eager		

Summary of Module
This module covers part 1 (of 3) of the Cisco Certified Network Associate (CCNA) curriculum. It is based on the current version of the curriculum materials, currently v7.x
The curriculum covers the skills and knowledge required to build simple LANs, perform basic configurations for routers and switches, implement IPv4 and IPv6 addressing schemes, enable end-to-end connectivity between remote devices and configure and troubleshoot network connectivity using security best practices.

Module Delivery Method					
Face-To-Face	**Blended**	**Fully Online**	**HybridC**	**Hybrid O**	**Work-Based Learning**
☒	☒	☐	☐	☐	☐
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:
☒	☐	☐	☒	☐	☐	Add name

Term(s) for Module Delivery

(Provided viable student numbers permit).					
Term 1	☐	Term 2	☒	Term 3	☐

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	Demonstrate a broad knowledge of the area of computer networking and its terminology
L2	Design, implement, and test the operation of a basic computer network
L3	Demonstrate an understanding of the operation of a range of networking protocols and devices

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 **7** Understanding the terminology and concepts of the area of computer Networking Understanding the operation of a range of networking protocols and devices
Practice: Applied Knowledge and Understanding	SCQF Level **7** Designing a network (including its addressing scheme) to meet requirements. Implementing a network to a given design Use of basic testing and troubleshooting tools
Generic Cognitive skills	SCQF Level **7** Using methodical approach when solving problems Justifying the use of a particular solution to a problem
Communication, ICT and Numeracy Skills	SCQF Level **7** Basic configuration of IT systems in a networked environment Working with numbers in a variety of bases
Autonomy, Accountability and Working with others	SCQF Level **7** Working in small teams to solve problems
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	12
Laboratory/Practical Demonstration/Workshop	36
Independent Study	152
	Hours Total 200

**Indicative Resources: (eg. Core text, journals, internet access)
The following materials form essential underpinning for the module content and ultimately for the learning outcomes: Cisco's online curriculum at https://www.netacad.com/ Access to a networking lab with equipment supporting the latest version of the CCNA curriculum Software: Packet Tracer, VirtualBox, Wireshark, Putty 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 Student Attendance and Engagement Procedure: 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.

For the purposes of this module, academic engagement equates to the following:

Students are expected to attend at least 75% of timetabled classes and are expected to regularly take part in practical labs configuring networking equipment. Students are expected to complete ongoing assessments in Cisco's Netacad VLE.

Equality and Diversity

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

In order for the student to complete this module the student will be required to take part in laboratory and computer-based exercises, including both computer-based and laboratory-based assessments. Students with substantial physical impairments or visual or auditory handicaps should be assessed and counselled prior to selecting courses requiring this module. When a student discloses a disability a special needs advisor will - **after** consulting with the module coordinator - agree the appropriate adjustments to be made.

(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 & Applied Computing
Moderator	Duncan Thomson
External Examiner	R Khusainov
Accreditation Details	e.g. ACCA Click or tap here to enter text.
Changes/Version Number	

Assessment: (also refer to Assessment Outcomes Grids below)

Assessment 1: Completion of "Module Tests", a series of open-book computer-based assessments (multiple attempts allowed) – worth 20%
Assessment 2: A final closed book online class test taken in exam conditions – worth 40%
Assessment 3: A timed, lab-based assessment taken in exam conditions on real network equipment – worth 40%
(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)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Portfolio of online open book quizzes, multiple attempts permitted	X		X			20%	0

Component 2

Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Online closed book **class test**	X		X			40%	1.5

Component 3

Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours

Timed **laboratory assessment**		X	X			40%	2
Combined Total for All Components						**100%**	**3.5 hours**

Change Control:

What	When	Who
Further guidance on aggregate regulation and application when completing template	16/01/2020	H McLean
Updated contact hours	14/09/21	H McLean
Updated Student Attendance and Engagement Procedure	19/10/2023	C Winter
Updated UWS Equality, Diversity and Human Rights Code	19/10/2023	C Winter
Guidance Note 23-24 provided	12/12/23	D Taylor
General housekeeping to text across sections. .	12/12/23	D Taylor

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