

University of the West of Scotland

Module Descriptor

Session: 2024/25

Title of Module: Windows Server Administration

Code: COMP09089	SCQF Level: 9 (Scottish Credit and Qualifications Framework)	Credit Points: 20	ECTS: 10 (European Credit Transfer Scheme)
School:	School of Computing, Engineering and Physical Sciences		
Module Co-ordinator:	Steve Eager		

Summary of Module

This module aims to provide the knowledge and skills appropriate for configuring and managing a range of the server roles offered by Microsoft Windows Server operating system. The module will initially look at network fundamentals such as network addressing and communications and will then progress on to the role of the network infrastructure servers in managing a corporate network. Students will study the theory behind such servers and gain skills necessary for their management through practical lab work. They will be guided through laboratory exercises to build their own server infrastructure with servers installed in a virtual environment. The server roles will typically include: Domain Controller, DNS, DHCP, Web, SMTP and RRAS.

The module is designed to develop sought after graduate attributes that include: practical experience in working with servers in a simulated but realistic situation but also understanding the theory and practice behind a typical Windows Server infrastructure.

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

Term(s) for Module Delivery

(Provided viable student numbers permit).

Term 1	✓	Term 2		Term 3	
Learning Outcomes: (maximum of 5 statements)					
On successful completion of this module the student will be able to:					
L1. Demonstrate knowledge and understanding of network management concepts.					
L2. Demonstrate ability to configure Microsoft Windows Server to perform several fundamental roles.					
L3. Demonstrate knowledge of a network environment integrated with Microsoft Windows Server.					
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 9. Knowledge and understanding of Windows networking will be instilled through classroom lectures and guided system configuration.				
Practice: Applied Knowledge and Understanding	SCQF Level 9. Applied knowledge and understanding of Windows networking will be demonstrated through the successful completion of laboratory-based coursework assignments.				
Generic Cognitive skills	SCQF Level 9. Through laboratory-based coursework assignments, students will have to identify problems, formulate and implement solutions, and analyse results.				
Communication, ICT and Numeracy Skills	SCQF Level 9. Students will work on real server systems much of the time and will be required to calculate network parameters during configuration exercises. Communication of ideas and solutions will be fundamental in lab work and in assessments.				
Autonomy, Accountability and Working with others	SCQF Level 9. Students will have to exercise autonomy and initiative to work with the selected software at a professional level. They will also be required to work with others to build a working network.				
Co-requisites	Module Code:		Module Title:		

Engagement 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 the VLE, and complete assessments and submit these on time.

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:
✓			✓			✓

* Indicates that module descriptor is not published.

Learning and Teaching

The module will be delivered by means of lectures, tutorials and practical lab work aimed at developing the knowledge and skills required to confidently manage a Windows Server based network.

The lectures will introduce the theory behind, and develop the essential tasks involved in server management, while the follow-on lab work will enable students to put into practice what they have learned. The tutorial sessions will help consolidate both the lecture material and the skills practiced during the lab work.

Students will build up their own servers and configure domain requirements based on a given scenario. They will implement and test a range of server features designed to provide a comprehensive understanding of the functions of specific server roles.

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

Tutorial/Synchronous Support Activity

6

Laboratory/Practical Demonstration/Workshop

30

Independent Study

152

200 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:

Students will need access to a networked computer loaded with virtualization software hosting multiple Windows Server systems to enable practical lab work and assignments to be completed.

Lecture notes, laboratory sheets and tutorial questions will be posted on VLE.

Microsoft knowledge base and support materials at <https://technet.microsoft.com>

(**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)

Supplemental Information

Programme Board	Computing
Assessment Results (Pass/Fail)	No
Subject Panel	Business & Applied Computing
Moderator	Duncan Thomson
External Examiner	R Khusainov
Accreditation Details	
Version Number	1.2

Assessment: (also refer to Assessment Outcomes Grids below)

Coursework - Practical assignment (this will take place at the end of module delivery). The coursework will be worth 50% of the module mark.

Class Test - The Class test element will be worth 50% of the overall module mark.

(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
Coursework	✓		✓	50	2
Component 2					
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Class test		✓		50	3
Combined Total For All Components				100%	5 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

The University policies on equality and diversity will apply to this module: the content and assessment are based on the ability to communicate in English but are otherwise culture-neutral.

This module is almost entirely computer based and students must be proficient on a computer within a Windows environment.

When a student discloses a disability a special needs advisor will agree the appropriate adjustments to be made, consulting with the module coordinator if necessary.

[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)