

ADMN: Systems Administration

Madula Titler			Outlong Administration			
Module Title:			Systems Administration			
Language of Instruction:		n:	English			
Credits:		5				
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NFQ Level:		6				
Madula Dala						
Module Deli	vered in		5 programme(s)			
Teaching & Learning Strategies:			Learning is divided into lecture and practical sessions over one semester. The practical sessions will prov students with hands on experience in configuring, managing and administering single and multi user computer systems. It will also provide the opportunity to implement and reinforce material presented in the lectures, to learn by doing.			
Module Aim:			To provide learners with the necessary skills to manage and administer single-user and multi-user compu- systems.			
Learning Ou	itcomes					
On successfu	ul completic	on of th	nis module the learner should be able to:			
LO1	1 Demonstrate theoretical and practical knowledge in user and disk management.					
LO2	Implement and schedule scripts to automate common system administration tasks.					
LO3 Integrate core administrative services across a system infrastructure.						
Pre-requisite	e learning					
Module Rec This is prior l			ctical skill) that is recommended before enrolment in this module.			
No recomme	ndations lis	ted				
Incompatible		ch hav	e learning outcomes that are too similar to the learning outcomes of this module.			
No incompati	ible module	s liste	d			
Co-requisite	Modules					
No Co-requis	ite modules	s listed				
Requiremen This is prior l		a prac	ctical skill) that is mandatory before enrolment in this module is allowed.			
Should have working knowledge of Operating Systems and Networks.						



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Module Content & Assessment

Indicative Content

User and Group Management

Create, modify and delete local user accounts and groups, modify user and group attributes, configure user environment, privileged accounts.

Disk Management

Attaching disks, creating partitions, formatting and building file systems, mounting and unmounting, logical volume management.

Shell Scripting Scripting introduction, loops, conditionals, functions, writing shell scripts that automate system management functions.

Backup Management and Scheduling

Backup devices, backup types, tools to perform and restore backups such as tar. Scheduling backups and other services using CRON and At.

Core Administration Services Integration of various client/server services such as DNS, SSH, FTP and NTP.

Web and File Services

Setup and configuration of modern file and web server services.

Assessment Breakdown	%
Project	60.00%
Practical	40.00%

No Continuous Assessment

Project						
Assessment Type Assessr		nent Description	Outcome addressed	% of total	Assessment Date	
Project Sys		s integration project	1,2,3	60.00	Week 12	
Practical						
Assessment Type		Assessment Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation		Skills based assessment	1	40.00	Week 5	
No End of Module Formal Examinat	tion					

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time				
Workload Type	Frequency	Average Weekly Learner Workload		
Lecture	12 Weeks per Stage	1.00		
Laboratory	12 Weeks per Stage	3.00		
Estimated Learner Hours	15 Weeks per Stage	5.13		
	Total Hours	125.00		

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KWCCD_B	Bachelor of Science (Honours) in Creative Computing and Digital Innovation	3	Mandatory
CW_KCCYB_B	Bachelor of Science (Honours) in Cyber Crime and IT Security	3	Mandatory
CW_KCCIT_B	Bachelor of Science (Honours) in Information Technology Management	3	Mandatory
CW_KCCYB_D	Bachelor of Science in Cybercrime and IT Security	3	Mandatory
CW_KCCSY_D	Bachelor of Science in Information Technology Management	3	Mandatory