

### ZSYS H3202: Systems Administration

		121								
Module Title:			Systems Administration							
Language of Instruction:			English							
Credits:		10								
NFQ Level: 7										
Module Delivered In			No Programmes							
Teaching & Learning Strategies:			As well as traditional lectures students will undertake various laboratory exercises on administrative top							
Module Aim:			To provide the student with the necessary skills to manage and administer single-user and multi-user computer systems.							
Learning O	utcomes									
On success	ful completio	n of th	nis module the learner should be able to:							
LO1	Demonstrate practical and theoretical knowledge of the linux command line.									
LO2	Write scrip	Write scripts for automating tasks.								
LO3	Discuss th	iscuss the issues involved in disk management.								
LO4	Describe techniques for system security and monitoring.									
LO5	Demonstrate practical and theoretical knowledge in managing/administering various computer systems.									
Pre-requisi	te learning									
	<b>commendati</b> learning (or		tical skill) that is recommended before enrolment in this module.							
No recomm	endations list	ted								
Incompatib These are n		h have	e learning outcomes that are too similar to the learning outcomes of this module.							
No incompa	tible module:	s liste	b							
Co-requisit	e Modules									
No Co-requ	isite modules	s listed	1							
<b>Requirements</b> This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.										
2nd year Network Systems Administration or equivalent										



# ZSYS H3202: Systems Administration

End-of-Semester

40.00

## Module Content & Assessment

Indicative Content										
Evards Lifecycle of a machine										
Overview of Evards lifecycle of a machine										
Introduction to Linux Linux history; distributions; licensing										
Installing Linux Linux Installation										
Command Line Introduction Man Pages; files; file contents; linux file tree;										
Shell Expansion Commands and arguments; control operators; shell variables; shell embedding and options; shell history; file globbing										
Pipes and commands //O Redirection; filters; Basic Un	ix Tools; Regular Expression	ns								
Shell Scripting Scripting Introduction; Loops; Pa	arameters									
Local User Management User Management; User Passwords; User Profiles; Groups										
File Security Standard File Permissions; Advanced File Permissions; Access Control Lists; File Links										
<b>Disk Management</b> Disk Devices; Disk Partitions; Fi	e Systems; Mounting; Trout	bleshooting Tools	s; UUID's; Intro	duction	to RAID;	Logic	al Volum	e Managment		
Backup Management Backup										
Basic Linux Security Implementing Basic Security; Mo	onitoring Security; Auditing a	and Reviewing Se	ecurity; Checki	ng File Ir	ntegrity					
Other Administration Other Administrative Techniques	3									
Assessment Breakdown						%	1			
Continuous Assessment						60.00%				
							40.00%			
Continuous Assessment										
Assessment Type	Assessment Descrip	Assessment Description		Outcome addressed			% of total	Assessment Date		
Examination	Class Exams	Class Exams		1,2,3,4,5			50.00	n/a		
Other	Laboratory Participa	Laboratory Participation		2,5			10.00	n/a		
No Project										
No Practical										
End of Module Formal Examin	ation					_				
Assessment Type	Assessment Description				% of Assessment Date total		Date			

2,3,4,5

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

No Description

Formal Exam



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## Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	20 Weeks per Stage	3.00
Laboratory	20 Weeks per Stage	2.00
Estimated Learner Hours	20 Weeks per Stage	5.00
	Total Hours	200.00