	Reference EN4533 SCQF SCQF
	Level 10
Madula Title	SCQF Points 15
Module Title	ECTS Points 7.5
Wireless LANs	Created November 2003
Keywords Wireless, WLAN	Approved March 2004
	Amended August 2011
	Version No. 3

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module Indicative Stude		ent Workload	
Network Design (EN3533) or	Contact Hours	Full Time	
equivalent	Lectures	12	
Corequisite Modules	Tutorials	12	
•	Directed Study		
None.	Practical	26	
Precluded Modules	exercises Directed Study	25	
None.	Private Study		
Aims of Module	Private Study	75	
To provide the student with the	Mode of Delivery		
ability to understand the operation, installation and management of Wireless LANs.	The module is taught using a structured programme of lectures, tutorials, practical exercises and		
Learning Outcomes for Module	student-centred learn	ing	

Learning Outcomes for Module

On completion of this module,

Assessment Plan

students are expected to be able to:

- 1.Discuss the operation of Wireless LANs
- 2.Undertake the installation of Wireless LANs
- 3.Undertake the configuration of Wireless LANs

Indicative Module Content

Wireless Technologies. Components and Topologies. Wireless standards. Modulation Techniques. Multiple Access and Bandwidth. Radio Wave Propagation. Wireless Topologies. VLAN, QoS, and Proxy Mobile IP. Access Points. Wireless Bridges. Antennas. Security. Site Survey. Troubleshooting: Management, Monitoring, and Diagnostics. **Emerging Technologies:** Ultra-Wideband Wireless, VoIP and Voice over WLANs, Mobile Wireless, Wireless Organizations and Certification.

	Learning Outcomes Assessed
Component 1	2,3
Component 2	1,3

Component 2 is a formal, closed book, examination. (50% weighting)

Component 1 is coursework which is assessed by a case study of Wireless Local Area Network Specification and Design and Operation.(50% weighting)

Indicative Bibliography

1.ROSHAN, P., Leary, J., 802.11 Wireless LAN Fundamentals 2009. Cisco Press, Cisco Networking Academy, Part of the Fundamentals series.