

Mapping ICT to ITE5

CCNA Routing & Switching	Counting	ICT (Compulsory)	ICT (Networking Elective)	ICT (Core + Networking)
1 Exploring the Network				
1.1 Globally Connected	1	1		1
1.2 LANs, WANs, and the Internet	1	1		1
1.3 The Network as a Platform	1	1		1
1.4 The Changing Network Environment	1	1		1
2 Configuring a Network Operating System				
2.1 IOS Bootcamp	1			
2.2 Getting Basic	1			
2.3 Addressing Schemes	1	1		1
3 Network Protocols and Communications				
3.1 Rules of Communications	1	1		1
3.2 Network Protocols and Standards	1		1	1
3.3 Moving Data in the Network	1	1		1
4 Network Access				
4.1 Physical Layer Protocols	1	1		1
4.2 Network Media	1	1		1
4.3 Data Link Layer Protocols	1		1	1
4.4 Media Access Control	1		1	1
5 Ethernet				
5.1 Ethernet Protocol	1		1	1
5.2 Address Resolution Protocol	1		1	1
5.3 LAN Switches	1		1	1
6 Network Layer				
6.1 Network Layer Protocols	1		1	1
6.2 Routing	1		1	1
6.3 Routers	1		1	1
6.4 Configuring a Cisco Router	1			
7 Transport Layer				
7.1 Transport Layer Protocols	1		1	1
7.2 TCP and UDP	1		1	1

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8 IP Addressing				
8.1 IPv4 Network Addresses	1		1	1
8.2 IPv6 Network Addresses	1		1	1
8.3 Connectivity Verification	1		1	1
9 Subnetting IP Networks				
9.1 Subnetting an IPv4 Network	1		1	1
9.2 Addressing Schemes	1		1	1
9.3 Design Considerations for IPv6	1		1	1
10 Application Layer				
10.1 Application Layer Protocols	1	1		1
10.2 Well-Known Application Layer Protocols and Services	1	1		1
10.3 The Message Heard Around The World	1	1		1
11 It's a Network				
11.1 Create and Grow	1	1		1
11.2 Keeping the Network Safe	1	1		1
11.3 Basic Network Performance	1	1		1
11.4 Managing IOS Configuration Files	1			
11.5 Integrated Routing Services	1			
Total	37	15	17	32
		41%	46%	86%