

Spring 2018 : Topics Allocation

Week	Lecture	Topic	Description	Duration
Week 1	Lecture No. 1	Topic No. 1	Routing and Switching - Course Information	0:05:41
		Topic No. 2	Networks Support the Way We Are..	0:09:43
		Topic No. 3	Components of a Network	0:05:44
		Topic No. 4	LANs, WANs, and the Internet	0:09:24
		Topic No. 5	Rules of Communication	0:08:17
	Lecture No. 2	Topic No. 6	Protocol Suits	0:06:59
		Topic No. 7	Standard Orgnizations	0:09:50
		Topic No. 8	Reference Models	0:07:18
		Topic No. 9	Internet Operating System (IOS)	0:02:38
		Topic No. 10	Accessing an IOS Device	0:04:57
		Topic No. 11	Navigating the IOS	0:06:41
Week 2	Lecture No. 3	Topic No. 12	Basic IOS Command Strucutre	0:07:39
		Topic No. 13	Configuring Hostnames	0:07:23
		Topic No. 14	Ports & Addressing	0:04:56
		Topic No. 15	Verifying Connectivity	0:08:14
		Topic No. 16	Physical Layer Protocols	0:09:46
	Lecture No. 4	Topic No. 17	Network Media	0:05:59
		Topic No. 18	Data Link Layer Protocols	0:09:51
		Topic No. 19	Media Access Control - Data Link Frame	0:05:39
		Topic No. 20	Network Layer Protocols	0:06:20
		Topic No. 21	IPv4 Packet	0:03:59
		Topic No. 22	IPv4 Address and Subnet Mask	0:07:18
Week 3	Lecture No. 5	Topic No. 23	IPv4 Unicast, Broadcast and Multicast Address	0:05:07
		Topic No. 24	Types of Ipv4 Addresses	0:07:01
		Topic No. 25	Network Segmentation	0:09:07
		Topic No. 26	Subnetting an IPv4 Network	0:05:37
		Topic No. 27	Variable Length Subnet Masking (VLSM)	0:07:02
	Lecture No. 6	Topic No. 28	Anatomy of a Router	0:05:42
		Topic No. 29	Router Bootup	0:07:08
		Topic No. 30	Configuring Routers	0:09:10
		Topic No. 31	Verify Connectivity of Directly Connected Networks	0:04:35
		Topic No. 32	Path Determination	0:06:52
		Topic No. 33	Path Determination <Continued....>	0:09:38
Week 4	Lecture No. 7	Topic No. 34	Analyze the Routing Table	0:05:27
		Topic No. 35	Exploring Internetwork Devices	0:09:24
		Topic No. 36	Testing the Network	0:08:34
		Topic No. 37	Basics of Packet Tracer Part -1	0:08:23
		Topic No. 38	Basics of Packet Tracer Part -2	0:06:25
	Lecture No. 8	Topic No. 39	Packet Tracer - Investigating TCP/IP & OSI Models	0:02:28
		Topic No. 40	Packet Tracer – Navigating the IOS	0:05:29
		Topic No. 41	Packet Tracer – Initial Configuraton of Switch	0:06:37
		Topic No. 42	Packet Tracer – Implementing Basic Connectivity Part -1	0:08:34
		Topic No. 43	Packet Tracer – Implementing Basic Connectivity Part -2	0:05:19
		Topic No. 44	Packet Tracer – Connecting Wired/Wireless LAN	0:07:10

Week 5	Lecture No. 9	Topic No. 45	Packet Tracer – Investigating Unicast , Broadcast and Multicast	0:05:33
		Topic No. 46	Packet Tracer – Subnetting Scnerio , Part -1	0:04:58
		Topic No. 47	Packet Tracer – Subnetting Scnerio , Part -2	0:08:17
		Topic No. 48	Packet Tracer – Exloring Internetwork Devices	0:08:09
		Topic No. 49	Packet Tracer – Configure Initial Router Setttings	0:06:50
	Lecture No. 10	Topic No. 50	Static Routing , Part -1	0:09:41
		Topic No. 51	Static Routing , Part -2	0:08:24
		Topic No. 52	Configuring Static & Default Routes , Part -1	0:09:22
		Topic No. 53	Configuring Static & Default Routes , Part -2	0:07:51
		Topic No. 54	Packet Tracer - Configuring IPv4	0:08:43
Topic No. 55		Packet Tracer - Configuring and Verifying a Small Network , Part -1	0:09:27	
Week 6	Lecture No. 11	Topic No. 56	Packet Tracer - Configuring and Verifying a Small Network , Part -2	0:08:45
		Topic No. 57	Packet Tracer - Connect a Router to a LAN	0:08:35
		Topic No. 58	Packet Tracer - Configuring IPv4 Static & Default Routes , Part -1	0:04:53
		Topic No. 59	Packet Tracer - Configuring IPv4 Static & Default Routes , Part -2	0:06:58
		Topic No. 60	Configure Symmary Static Routes	0:08:17
	Lecture No. 12	Topic No. 61	Configure Floating Static Routes	0:05:33
		Topic No. 62	Dynamic Routing Protocol	0:04:38
		Topic No. 63	Routing Protocol Operating Fundamentals	0:11:38
		Topic No. 64	Types of Routing Protocols	0:09:14
		Topic No. 65	Packet Tracer - Investigating Convergence	0:10:16
Topic No. 66		IGRP	0:08:02	
Week 7	Lecture No. 13	Topic No. 67	RIP Protocol , Part -1	0:01:59
		Topic No. 68	RIP Protocol , Part -2	0:06:04
		Topic No. 69	Link State Routing Protocols	0:07:45
		Topic No. 70	Link State Routing Process	0:10:51
		Topic No. 71	Link State Updates	0:08:07
	Lecture No. 14	Topic No. 72	Why to Use Link State Routing Protocol	0:10:13
		Topic No. 73	Routing Tables	0:08:16
		Topic No. 74	Packet Tracer - Configuring IPv4 Route Summarization	0:05:19
		Topic No. 75	Classifying Routing Protocols	0:05:56
		Topic No. 76	IPv4 Route Lookup Process	0:06:44
Week 8	Lecture No. 15	Topic No. 77	Open Shortest Path First	0:09:08
		Topic No. 78	OSPF Messages	0:08:46
		Topic No. 79	OSPF Operation	0:08:24
		Topic No. 80	Configuring Single Area OSPFv2	0:04:39
		Topic No. 81	Packet Tracer - Investigating Convergence	0:09:06
	Lecture No. 16	Topic No. 82	Packet Trace - Configuring RIPv2	0:04:55
		Topic No. 83	Packet Tracer - Comparing RIP and EIGRP Path Selection	0:06:51
		Topic No. 84	OSPFv2 Metric or Cost	0:08:34
		Topic No. 85	Verifying OSPF	0:04:49
		Topic No. 86	OSPFv3 Versus OSPFv2	0:07:00
Week 9	Lecture No. 17	Topic No. 87	Configuring OSPFv3	0:04:20
		Topic No. 88	Verifying OSPFv3	0:08:45
		Topic No. 89	Multi Area OSPF	0:06:57
		Topic No. 90	Multiarea OSPF LSA Operation	0:06:48
		Topic No. 91	Packet Tracer - Configuring OSPFv2 in a Single Area	0:09:25
	Lecture No. 18	Topic No. 92	Packet Tracer - Configuring Basic OSPFv3	0:09:46
		Topic No. 93	Packet Tracer - Configuring IPv4 Route Summarization , Part -2	0:09:24
		Topic No. 94	OSPF Routing Table and Types of Routes	0:09:25
		Topic No. 95	Configuring Multiarea OSPF	0:10:14
		Topic No. 96	OSPF Route Summarization	0:11:02
Topic No. 97	Verifying Multiarea OSPF	0:09:16		
Topic No. 98	IP ACL	0:05:20		
Topic No. 99	Standard Vs Extended IPv4 ACL	0:05:49		

Week 10	Lecture No. 19	Topic No. 100	ACL Creation & Placement	0:05:57
		Topic No. 101	Packet Tracer - Configuring Multiarea OSPFv2 , Part -1	0:02:19
		Topic No. 102	Packet Tracer - Configuring Multiarea OSPFv2 , Part - 2	0:08:13
		Topic No. 103	Packet Tracer - Configuring Multiarea OSPFv3	0:08:01
		Topic No. 104	Configuring Standard IPv4 ACLs , Part -1	0:06:10
	Lecture No. 20	Topic No. 105	Configuring Standard IPv4 ACLs , Part -2	0:06:37
		Topic No. 106	Modify IPv4 ACLs	0:05:31
		Topic No. 107	Extended IPv4 ACLs , Part -1	0:09:00
		Topic No. 108	Extended IPv4 ACLs , Part -2	0:05:08
		Topic No. 109	Dynamic Host Configuration Protocol(DHCPv4)	0:08:56
		Topic No. 110	Configuring DHCPv4 , Part -1	0:03:52
Week 11	Lecture No. 21	Topic No. 111	Packet Tracer - Configuring Standard ACLs	0:10:08
		Topic No. 112	Packet Tracer - Configuring Extended ACLs , Part -1	0:05:16
		Topic No. 113	Packet Tracer - Configuring Extended ACLs , Part -2	0:08:38
		Topic No. 114	Configuring DHCPv4 , Part -2	0:08:25
		Topic No. 115	DHCPv4 Relay (1)	0:09:45
		Topic No. 116	Configuring DHCPv4 Client (1)	0:07:59
	Lecture No. 22	Topic No. 117	NAT	0:10:45
		Topic No. 118	NAT Application Types	0:08:14
		Topic No. 119	Types of NAT Applications - Dynamic NAT	0:10:21
		Topic No. 120	Types of NAT Applications - PAT	0:05:24
		Topic No. 121	Port Forwarding	0:05:24
Topic No. 122		Packet Tracer - Building a Simple Network	0:09:20	
Week 12	Lecture No. 23	Topic No. 123	Packet Tracer - Configuring Switch Management Address	0:06:19
		Topic No. 124	Configuring DHCPv4 , Part -1	0:05:47
		Topic No. 125	Configuring DHCPv4 , Part -2	0:08:25
		Topic No. 126	DHCPv4 Relay (2)	0:08:20
		Topic No. 127	Configuring DHCPv4 Client (2)	0:03:02
		Topic No. 128	Packet Tracer - Configuring Basic DHCPv4 on a Router , Part-1	0:10:14
		Topic No. 129	Packet Tracer - Configuring Basic DHCPv4 on a Router , Part-2	0:09:21
	Lecture No. 24	Topic No. 130	Packet Tracer - Configuring Basic DHCPv4 on a Router , Part-3	0:03:01
		Topic No. 131	NAT - Internet Concerns	0:09:01
		Topic No. 132	Types of NAT Applications - Static NAT	0:07:36
		Topic No. 133	Types of NAT Applications - Dynamic NAT	0:07:27
		Topic No. 134	Port Address Translation (PAT)	0:07:20
		Topic No. 135	Port Forwarding	0:07:00
		Topic No. 136	Packet Tracer - Configuring NAT Port Overload Translation (PAT) , Part-1	0:09:36
Week 13	Lecture No. 25	Topic No. 137	Packet Tracer - Configuring NAT Port Overload Translation (PAT) , Part-2	0:08:53
		Topic No. 138	Packet Tracer - Configuring NAT Port Overload Translation (PAT) , Part-3	0:06:31
		Topic No. 139	Ethernet Protocols	0:07:17
		Topic No. 140	Ethernet MAC	0:05:32
	Lecture No. 26	Topic No. 141	Address Resolution Protocol (ARP)	0:09:30
		Topic No. 142	Switched Networks	0:07:17
		Topic No. 143	Switch Features	0:03:07
		Topic No. 144	Frame Forwarding	0:04:37
Topic No. 145	Switching Domains	2:21		
Week 14	Lecture No. 27	Topic No. 146	Basic Switch Configuration	4:48
		Topic No. 147	Configure Switch Ports	6:43
		Topic No. 148	Packet Tracer - Configuring Basic Switch Settings	9:02
		Topic No. 149	Secure Remote Access - SSH	6:40
		Topic No. 150	VLAN	9:32
	Lecture No. 28	Topic No. 151	VLANs in Multi-Switched Environment	5:04
		Topic No. 152	VLAN Implementation	5:23
		Topic No. 153	VLAN Trunks	3:58
		Topic No. 154	Dynamic Trunking Protocol (DTP)	5:05
		Topic No. 155	Packet Tracer - Configuring VLANs and Trunking , Part -1	11:06
		Topic No. 156	Packet Tracer - Configuring VLANs and Trunking , Part -2	8:59

Week 15	Lecture No. 29	Topic No. 157	Purpose of Spanning Tree Protocol	8:18
		Topic No. 158	Spanning Tree Algorithm - Introduction	3:46
		Topic No. 159	Spanning Tree Protocol - Part 2	8:10
		Topic No. 160	Spanning Tree Protocol - Part 3	7:04
		Topic No. 161	Spanning Tree Protocol - Part 4	8:17
		Topic No. 162	Varieties of the Spanning Tree Protocol	4:51
	Lecture No. 30	Topic No. 163	Link Aggregation	7:05
		Topic No. 164	Packet Tracer - Switched Network with Redundant Links	12:08
		Topic No. 165	Inter Vlan Routing	8:49
		Topic No. 166	Configuring Legacy Inter-VLAN Routing	4:40
		Topic No. 167	Configure Router on Stick Intervlan Routing	7:08
		Topic No. 168	Layer3 Switching	6:15