IT Systems and Network

Part Time

Session No#	Session Mode	Session Type	Week -Day no#	Duration Hrs
1	EL-Async	• Understand Server Administration Concepts • Understand Virtualization and Cloud Computing • Understand Physical and Network Security Concepts Complete MCQ	Before next Sync Session	3.5
2	FC -Sync	IU 1: Server administration and virtualization concepts.	1-1	3
3	AS -Sync	Assignment1: Reporting Windows, Linux Server Specifications, and deployment of Hyper-VM and Docker container.	1-2	3
4	FC -Sync	IU 2:Manage physical inventory, assets, and server hardware.	1-3	3
5	AS -Sync	Assignment 2: Securing network traffic with IPSec, managing system inventories, and monitoring performance in Windows	2-4	3
6	EL-Async	• Managing Server Hardware & Storage Management • Installing and Configuring an Operating System • Troubleshooting OS, Application, and Network Configurations • Managing Data Security • Managing Service and Data Availability • Decommissioning Servers Complete MCQ	Before next Sync Session	3.5
7	FC -Sync	IU 3: Install, configure operating systems (OS) and storage management.	2-5	3

8	AS -Sync	Assignment 3: Configure RAID storage in Windows, Provision iSCSI storage, Deploy Linux application server	2-6	3
9	FC -Sync	IU 4: Troubleshoot OS, application, and network configuration.	3-7	3
10	AS -Sync	Assignment 4: Audit accounts and permissions in Windows, Configure Server Roles and Group Policy Objects	3-8	3
11	FC -Sync	IU 5: Maintain servers post installation and data security. .	3-9	3
12	AS -Sync	Assignment 5:Configure EFS and BitLocker, Implement backup solutions and setup a file cluster	4-10	3
13	EL-Async	• Understand Networking Fundamentals and Implementation • OSI Model Network Functions • Deploy Ethernet Cabling and Switches • IPv4 Addressing Schemes, Network Topologies and Types • Understand Network Operations • Transport Layer Protocols, Network Services and Applications Complete MCQ	Before next Sync Session	3
14	FC -Sync	IU 6: Networking Fundamentals IU 7: Network Implementations .	4-11	3
15	AS -Sync	Assignment 6 & 7 Configure SOHO router, Setup IPv3 and IPv4 addressing, Configure static and dynamic routing	4-12	3
16	EL-Async	• Ensure Network Availability • Common Security Concepts and Wireless Networks • Understand Network Troubleshooting • Organizational and Physical Security Concepts • Network Hardening Techniques • Cloud and Datacenter Architecture Complete MCQ	Before next Sync Session	3
17	FC -Sync	IU 8: Network Operations	5-13	3

18	AS -Sync	Assignment 8: Analyse DHCP server and DNS server configurations	5-14	3
19	FC -Sync	IU 9: Network Security	5-15	3
20	AS -Sync	Assignment 9: Secure access channels and Set up Syslog	6-16	3
21	FC -Sync	IU 10: Network Troubleshooting	6-17	3
22	AS -Sync	Assignment 10: Configure remote access and implementing port security	6 -18	3
23	PI - Async	Project Implementation: Complete the outstanding tasks and submit assignment report.	Before assessment	3
24	SA-Sync	Summative Assessment – (each Learner)	7-19	30 min

Full Time

Session No#	Session Mode	Session Type	Week -Day no#	Duration Hrs
1	EL-Async	• Understand Server Administration Concepts • Understand Virtualization and Cloud Computing • Understand Physical and Network Security Concepts Complete MCQ	1-1	3.5
2	FC -Sync	IU 1: Server administration and virtualization concepts.	1-2	3
3	AS -Sync	Assignment1: Reporting Windows, Linux Server Specifications, and deployment of Hyper-VM and Docker container.	1-3	3
4	FC -Sync	IU 2:Manage physical inventory, assets, and server hardware.	1-4	3

5	AS -Sync	Assignment 2: Securing network traffic with IPSec, managing system inventories, and monitoring performance in Windows	1-5	3
6	EL-Async	- Managing Server Hardware & Storage Management - Installing and Configuring an Operating System - Troubleshooting OS, Application, and Network Configurations - Managing Data Security - Managing Service and Data Availability - Decommissioning Servers Complete MCQ	2-6	3.5
7	FC -Sync	IU 3: Install, configure operating systems (OS) and storage management.	2-7	3
8	AS -Sync	Assignment 3: Configure RAID storage in Windows, Provision iSCSI storage, Deploy Linux application server	2-8	3
9	FC -Sync	IU 4: Troubleshoot OS, application, and network configuration.	2-9	3
10	AS -Sync	Assignment 4: Audit accounts and permissions in Windows, Configure Server Roles and Group Policy Objects	2-10	3
11	FC -Sync	IU 5: Maintain servers post installation and data security. .	3-11	3
12	AS -Sync	Assignment 5:Configure EFS and BitLocker, Implement backup solutions and setup a file cluster	3-12	3
13	EL-Async	- Understand Networking Fundamentals and Implementation - OSI Model Network Functions - Deploy Ethernet Cabling and Switches - IPv4 Addressing Schemes, Network Topologies and Types - Understand Network Operations - Transport Layer Protocols, Network Services and Applications Complete MCQ	3-13	3

14	FC -Sync	IU 6: Networking Fundamentals IU 7: Network Implementations .	3-14	3
15	AS -Sync	Assignment 6 & 7 Configure SOHO router, Setup IPv3 and IPv4 addressing, Configure static and dynamic routing	3-15	3
16	EL-Async	• Ensure Network Availability • Common Security Concepts and Wireless Networks • Understand Network Troubleshooting • Organizational and Physical Security Concepts • Network Hardening Techniques • Cloud and Datacenter Architecture Complete MCQ	4-16	3
17	FC -Sync	IU 8: Network Operations	4-17	3
18	AS -Sync	Assignment 8: Analyse DHCP server and DNS server configurations	4-18	3
19	FC -Sync	IU 9: Network Security	4-19	3
20	AS -Sync	Assignment 9: Secure access channels and Set up Syslog	4-20	3
21	FC -Sync	IU 10: Network Troubleshooting	5-21	3
22	AS -Sync	Assignment 10: Configure remote access and implementing port security	5-22	3
23	PI - Async	Project Implementation: Complete the outstanding tasks and submit assignment report.	5-23	3
24	SA-Sync	Summative Assessment – (each Learner)	5-24	30 min

EL-E-Learning
FC-Flipped Class
AS-Assignment
PM-Project Mentoring
PI-Project Implementation
AP-Additional Practice
SA-Summative Assessment
Sync- Synchronous Sesson

Async- Asynchronous Session