

Sl.NO	Module Name	Plan Type	Plan OR Topic
1	Linux Basics and Industrial Application	Lecture	About Linux, Linux System Architecture
2	Linux Basics and Industrial Application	Lecture	Linux Kernel
3	Linux Basics and Industrial Application	Lecture	Linux File System Structure
4	Linux Basics and Industrial Application	Practical	Installation of Unix/Linux operating system
5	Linux Basics and Industrial Application	Practical	Study of logging/logout details
6	Linux Basics and Industrial Application	Lecture	Linux Shell, Example Linux Shell Commands
7	Linux Basics and Industrial Application	Lecture	Linux users and group, Permissions for file, directory and users
8	Linux Basics and Industrial Application	Lecture	Searching a file & directory
9	Linux Basics and Industrial Application	Practical	Study of Unix/Linux general purpose utility command list obtained from (man, who, cat, cd, cp, ps, ls, mv, rm, mkdir, rmdir, echo) commands
10	Linux Basics and Industrial Application	Practical	Study of Unix/Linux general purpose utility command list obtained from (more, date, time, kill, history, chmod, chown, finger, pwd, cal, logout, shutdown) commands
11	Linux Basics and Industrial Application	Lecture	Zippping and Unzipping concepts
12	Linux Basics and Industrial Application	Lecture	Linux for the Industry 4.0 Era, OPENIL and its advantages, Features of OPENIL
13	Linux Basics and Industrial Application	Guest Lecture (Subject Expert)	Industry Lecture-I (Why is Linux trending?)

14	Linux Networking and Docker	Practical	Study of vi editor
15	Linux Networking and Docker	Practical	Study of vi editor
16	Linux Networking and Docker	Lecture	Introduction to Networking in Linux
17	Linux Networking and Docker	Lecture	Network basics & tools
18	Linux Networking and Docker	Lecture	Study of Docker concepts: Installation on Linux, defining containers and Images and there usage
19	Linux Networking and Docker	Practical	Implementation of docker on Linux operating system
20	Linux Networking and Docker	Practical	Implementation of docker on Linux operating system
21	Linux Networking and Docker	Lecture	File transfer protocol in Linux
22	Linux Networking and Docker	Lecture	Domain Naming Services
23	Linux Networking and Docker	Lecture	Dynamic hosting configuration Protocol & Network information Services
24	Linux Networking and Docker	Practical	Open Ended Demonstration: Server administration and any server configuration
25	Linux Networking and Docker	Practical	Open Ended Demonstration: Server administration and any server configuration
26	Linux Networking and Docker	Lecture	Network information Services
27	Linux Networking and Docker	Lecture	Network file system

28	Linux Networking and Docker	Guest Lecture (Subject Expert)	Industry Lecture-II (Linux Domain Configuration)
29	The Linux Shell and File Structure	Practical	Study of Bash shell, Bourne shell and C shell in Unix/Linux operating system
30	The Linux Shell and File Structure	Practical	Study of Unix/Linux file system, Study of .bashrc, /etc/bashrc and Environment variables
31	The Linux Shell and File Structure	Lecture	Using The Shell
32	The Linux Shell and File Structure	Lecture	Moving Around the Filesystem
33	The Linux Shell and File Structure	Lecture	Working around the Text Files
34	The Linux Shell and File Structure	Practical	Write a shell script program to display list of user currently logged in, Write a shell script program to display "HELLO WORLD"
35	The Linux Shell and File Structure	Practical	Write a shell script program to develop a scientific calculator, Write a shell Script program to check whether the given number is even or odd
36	The Linux Shell and File Structure	Lecture	Managing Running Processes
37	The Linux Shell and File Structure	Lecture	Writing Simple Shell Scripts
38	The Linux Shell and File Structure	Lecture	Linux Files
39	The Linux Shell and File Structure	Practical	Shell script Program to search whether element is present is in the list or not, Shell script program to check whether given file is a directory or not

40	The Linux Shell and File Structure	Practical	Shell script program to count number of files in a Directory, Shell script program to copy contents of one file to another, Create directory, write contents on that and Copy to a suitable location in your home directory
41	The Linux Shell and File Structure	Lecture	Linux Directories, Archives
42	The Linux Shell and File Structure	Lecture	Linux Archives
43	The Linux Shell and File Structure	Guest Lecture (Subject Expert)	Industry Lecture-III (Expert Discussion on Linux File System Concepts)
44	The Linux Shell and File Structure	Practical	Open Ended Demonstration: Linux administration service using Shell Scripting
45	The Linux Shell and File Structure	Practical	Open Ended Demonstration: Linux administration service using Shell Scripting
46	The Linux Shell and File Structure	Assessment/Evaluation	Quiz-I/Assessment
47	Network Administration Services	Lecture	Managing User Accounts
48	Network Administration Services	Lecture	Managing Disks
49	Network Administration Services	Practical	Socket Programming
50	Network Administration Services	Practical	Socket Programming
51	Network Administration Services	Lecture	Managing Filesystems
52	Network Administration Services	Lecture	Understanding Server Administration

53	Network Administration Services	Lecture	Administering TCP/IP Networks
54	Network Administration Services	Practical	Use a pipeline and command substitution to set the length of a line in file to a variable
55	Network Administration Services	Practical	More hands on command substitution
56	Network Administration Services	Lecture	Starting and Stopping Services
57	Network Administration Services	Lecture	Configuring an NFS File Server
58	Network Administration Services	Lecture	Distributed Network File Systems
59	Network Administration Services	Practical	Open Ended Demonstration: Linux Network Administration
60	Network Administration Services	Practical	Open Ended Demonstration: Linux Network Administration
61	Network Administration Services	Lecture	Distributed Network File Systems
62	Network Administration Services	Guest Lecture (Subject Expert)	Industry Lecture-IV (Linux Network Administration)
63	Linux Device Drivers	Lecture	Introduction & Character device drivers
64	Linux Device Drivers	Practical	Write a program using sed command to print duplicated lines of Input
65	Linux Device Drivers	Practical	Hands-on on more sed command
66	Linux Device Drivers	Lecture	Hardware access mechanisms
67	Linux Device Drivers	Lecture	Interrupts
68	Linux Device Drivers	Lecture	Time keeping
69	Linux Device Drivers	Practical	Study the process of writing a device driver, or a kernel module

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71	Linux Device Drivers	Lecture	Delays and Deferred work
72	Linux Device Drivers	Lecture	Concurrency and USB drivers
73	Linux Device Drivers	Guest Lecture (Subject Expert)	Industry Lecture-V (Development of Driver Module For Linux)
74	Linux Device Drivers	Assessment/Evaluation	Quiz-II/Assessment/FinalLab Viva
75	Linux Device Drivers	Assessment/Evaluation	Quiz-II/Assessment/FinalLab Viva