

TEACHING SCHEME		EXAMINATION SCHEME AND MARKS					
(HOURS/WEEK)		THEORY			TUTORIAL/	PRESENTATION/	TOTAL
LECTURE	PRACTICAL	MSE	ESE	IA	PRACTICAL	DEMONSTRATION	
NIL	4	NIL	NIL	NIL	75	NIL	75

AIM: To provide technical skills, for sharpening the students to enable them to meet the technosocio-economic challenges.

COURSE OBJECTIVES:

CS359.CEO.1: To install Red Hat Enterprise Linux using scalable methods

CS359.CEO.2: To access security files, file systems, and networks

CS359.CEO.3: To deploy shell scripting and automation techniques

CS359.CEO.4: To control the boot process, system services and running containers

COURSE OUTCOMES:

The students after completion of the course will be able to:

CS359.CO.1: Illustrate essential Linux administration tasks.

CS359.CO.2: Experiment with installation, networking and user profiles.

CS359.CO.3: Examine physical storage, file systems and log files.

CS359.CO.4: Inspect the Linux processes, control services, daemons and basic security administration.

CS359.CO.5: Analyze Redhat Linux System with a comprehensive and systematic approach.

Format No.: MITAOE/ACAD/ 002 Rev. No.: 2.0 Rev. Date: 01/07/2019

Red Hat Administration - II

40 HOURS

Automate installation with Kickstart: Automate the installation of Red Hat Enterprise Linux systems with Kickstart.

Use regular expressions with grep: Write regular expressions that, when partnered with grep, isolate or locate content within text files.

Create and Edit text files with vim: Introduce the vim text editor, open, edit, and save text files. Schedule future Linux tasks: Schedule tasks to automatically execute in the future.

Manage priority of Linux processes: Influence the relative priorities at which Linux processes run.

Control access to files with access control lists (ACL): Manage file security using POSIX access control lists.

Manage SELinux security: Manage the Security Enhanced Linux (SELinux) behavior of a system to keep it secure in case of a network service compromise.

Connect to network-defined users and groups: Configure systems to use central identity management services.

Add disks, partitions, and file systems to a Linux system: Manage simple partitions and file systems.

Manage logical volume management (LVM) storage: Manage logical volumes from the command line.

Access networked attached storage with network file system (NFS): Access (secure) NFS shares.

Access networked storage with SMB: Use autofs and the command line to mount and unmount SMB file systems.

Control and troubleshoot the Red Hat Enterprise Linux: Manage boot process, limit network communication with firewall and configure a basic firewall.

REFERENCE BOOK

1. Red Hat Enterprise Linux 8.0, "RH134: RedHat System Administration-II", Student Guide.

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