

# ICT257 Red Hat System Administration

**Level:** 2

**Credit Units:** 10 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY SEMESTER

## Synopsis:

The first part (System Administration I) provides an introduction to fundamental end-user and system administration skills in Red Hat Enterprise Linux. Participants learn to properly manage a Linux workstation or server, including installation and configuration of local components and services as well as connections to existing network services. This course builds on students' existing technical knowledge by focusing on GUI-based tools, while still covering key command line concepts.

The second part (System Administration II) builds on the foundation of command line skills learned in System Administration I. This course is for full-time enterprise Linux system administrators who are also interested in becoming accredited with the RHCSA certification. Students will learn to administer and troubleshoot file systems and partitioning, logical volume management, access control, package management.

This course does not carry a Grade Point Value (GPV), but it will count towards fulfilling the credit requirements of the degree.

## Topics:

- Graphical installation of Linux
- Managing physical storage
- Introduction to the command line
- Learning how to install and configure local components and services
- Establishing network and securing network services
- Managing and securing files
- Administrating users and groups
- Deploying file sharing services
- Network configuration and troubleshooting
- Managing file systems and logical volumes
- Controlling user and file access
- Installing and managing services and processes
- Essential command line operations
- Troubleshooting

## Learning Outcome:

- Understand and Use Essential Tools
- Operate Running Systems
- Configure Local Storage
- Create and Configure File Systems
- Deploy, Configure and Maintain Systems
- Manage Users and Groups
- Manage Security

**Assessment Strategies (Evening Class):**

<b>Components</b>	<b>Description</b>	<b>Weightage Allocation (%)</b>
Overall Examinable Components	Lab Session	100
<b>Total</b>		<b>100</b>