

### Introduction to Linux Operating System

<b>Course Code</b>	20SO8355	<b>Year</b>	II	<b>Semester</b>	I
<b>Course Category</b>	SOC-1	<b>Branch</b>	CSE	<b>Course Type</b>	Practical
<b>Credits</b>	2	<b>L-T-P</b>	1-0-2	<b>Prerequisites</b>	-
<b>Continuous Internal Evaluation :</b>	-	<b>Semester End Evaluation:</b>	50	<b>Total Marks:</b>	50

#### Course Outcomes

Upon successful completion of the course, the student will be able to		
<b>CO1</b>	Apply suitable commands to perform various tasks on Linux Operating System.	<b>L3</b>
<b>CO2</b>	Implement tasks as an individual on Linux Operating System.	<b>L3</b>
<b>CO3</b>	Develop an effective report based on various tasks implemented.	<b>L3</b>
<b>CO4</b>	Apply technical knowledge for a given problem and express with an effective oral communication.	<b>L3</b>
<b>CO5</b>	Analyze outputs using given constraints.	<b>L4</b>

#### Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:Substantial, 2: Moderate, 1:Slight)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>CO1</b>	2											2		
<b>CO2</b>									2					
<b>CO3</b>										3				
<b>CO4</b>										2			2	
<b>CO5</b>		2												

<b>Syllabus</b>		
<b>Unit No.</b>	<b>Contents</b>	<b>Mapped CO</b>
1	Accessing the Command Line.	<b>CO1,CO2,CO3,CO4,CO5</b>
2	Managing Files from the Command Line.	<b>CO1,CO2,CO3,CO4,CO5</b>
3	Creating, Viewing and Editing Text Files.	<b>CO1,CO2,CO3,CO4,CO5</b>
4	Archiving and Copying Files Between Systems.	<b>CO1,CO2,CO3,CO4,CO5</b>
5	Manage users and groups.	<b>CO1,CO2,CO3,CO4,CO5</b>
6	Controlling Access to Files with Linux File System Permissions.	<b>CO1,CO2,CO3,CO4,CO5</b>
7	Manage basic networking.	<b>CO1,CO2,CO3,CO4,CO5</b>
8	Installing and Updating Software Packages.	<b>CO1,CO2,CO3,CO4,CO5</b>

### **Learning Resources**

#### **Text Books**

1. Red Hat Enterprise Linux 8.0 RH124, Red Hat System Administration I, Edition 1, Fiona Allen, Marc Kesler, Saumik Paul, Snehangshu Karmakar, Victor Costea

#### **Referencs**

1. <https://www.coursera.org/learn/fundamentals-of-red-hat-enterprise-linux>
2. <https://www.udemy.com/course/certified-system-administrator/>

#### **e-Resources & Other Digital Material**

1. <https://www.redhat.com/en/services/training/ex200-red-hat-certified-system-administrator-rhcsa-exam>