Day 1: Introduction to Linux and Basic Commands

1. **Session 1: Introduction to Linux**
   - 1.1 Overview of Linux
   - 1.2 History and Evolution
   - 1.3 Linux Distributions
2. **Session 2: Getting Started with Linux**
   - 2.1 Installing Linux (Hands-on)
   - 2.2 Accessing the Terminal
   - 2.3 Basic Command Structure
3. **Session 3: File System Navigation and Manipulation**
   - 3.1 Understanding File Systems
   - 3.2 Navigating Directories
   - 3.3 Basic File and Directory Operations

Day 2: Users, Permissions, and Shell Scripting

4. **Session 4: User Management**
   - 4.1 User Accounts and Groups
   - 4.2 Adding and Managing Users
   - 4.3 Password Management
5. **Session 5: Permissions and Ownership**
   - 5.1 Understanding File Permissions
   - 5.2 Changing Permissions
   - 5.3 Ownership and Group Management
6. **Session 6: Introduction to Shell Scripting**
   - 6.1 Basics of Shell Scripts
   - 6.2 Writing Simple Scripts
   - 6.3 Executing Scripts

Day 3: System Administration Basics

7. **Session 7: Package Management**
   - 7.1 Package Managers Overview
   - 7.2 Installing and Removing Software
   - 7.3 Updating the System
8. **Session 8: System Monitoring and Performance**
   - 8.1 Basic System Monitoring Tools
   - 8.2 Resource Usage Analysis
   - 8.3 Troubleshooting Basics
9. **Session 9: Networking Basics**
   - 9.1 Network Configuration

- 9.2 Basic Networking Commands
- 9.3 Troubleshooting Network Issues

Day 4: Advanced Topics and Hands-On Projects

10. **Session 10: Advanced File System Features**
    - 10.1 Symbolic Links
    - 10.2 Disk Quotas
    - 10.3 Filesystem Hierarchy Standard (FHS)
11. **Session 11: Security Basics**
    - 11.1 Firewalls and Security Policies
    - 11.2 Secure Shell (SSH)
    - 11.3 Introduction to Encryption
12. **Session 12: Final Project and Review**
    - 12.1 Recap of Key Concepts
    - 12.2 Hands-on Project: Applying Linux Skills
    - 12.3 Q&A and Feedback