1. System Architecture

- Determine and configure hardware settings
- Boot the system
- Change run levels / boot targets and shutdown or reboot system

2. Linux Installation and Package Management

- Design hard disk layout
- Install a boot manager
- Manage shared libraries
- Use Debian package management
- Use RPM and YUM package management
- Linux as a virtualization guest

3. GNU and Unix Commands

- Work on the command line
- Process text streams using filters
- Perform basic file management
- Use streams, pipes and redirects
- Create, monitor and kill processes
- Modify process execution priorities
- Search text files using regular expressions
- Basic file editing

4. Devices, Linux Filesystems, Filesystem Hierarchy Standard

- Create partitions and filesystems
- Maintain the integrity of filesystems
- Control mounting and unmounting of filesystems
- Manage file permissions and ownership
- Create and change hard and symbolic links
- Find system files and place files in the correct location

5. Shells and Shell Scripting

- **105.1 Customize and use the shell environment**
- **105.2 Customize or write simple scripts**

6. User Interfaces and Desktops

- **106.1 Install and configure X11**
- **106.2 Graphical Desktops**
- **106.3 Accessibility**

7. Administrative Tasks

- **Manage user and group accounts and related system files**
- **Automate system administration tasks by scheduling jobs**
- **Localisation and internationalisation**

8. Networking Fundamentals

- **Fundamentals of internet protocols**
- **Persistent network configuration**
- **Basic network troubleshooting**
- **Configure client-side DNS**

9. Security

- **Perform security administration tasks**
- **Setup host security**
- **Securing data with encryption**