## Introduction to System Administration

|  |  |  |  |
| --- | --- | --- | --- |
| *SMS Code* | IN617001 | *Directed Learning hours* | 60 |
| *Level* | 6 | *Workplace or Practical Learning hours* | 0 |
| *Credits* | 15 | *Self-Directed Learning hours* | 90 |
| Prerequisites | IN510001, IN520001, IN515001 & IN616001 | *Total Learning Hours* | 150 |
| *This course approved in another Programme: No* | | | |

***Aims***

To give students experience in the installation, support, maintenance and administration of relevant server operating systems and services.

***Learning Outcomes***

At the successful completion of this course, students will be able to:

1. Install and upgrade a relevant server operating system
2. Create and manage user accounts and privileges
3. Locate and manage files and directories on file systems
4. Manage file systems
5. Administer, monitor and troubleshoot a relevant operating system
6. Implement and configure network, application, and security services
7. Design and implement scripts to automate system services
8. Recognise and reflect on related contemporary technological developments

***Indicative Content***

* System installation
* File systems management
* Shells
* Managing system processes
* Administering server operating systems in a multi-user environment
* Application installation, service configuration and maintenance
* Troubleshooting performance issues
* Network configuration
* System security

***Assessment***

|  |  |  |
| --- | --- | --- |
| **Assessment Activity** | **Weighting** | **Learning Outcomes** |
| Assigned Exercises / Labs | 25% | All |
| Scripting Assignment | 25% | 6,7 |
| Research Portfolio | 10% | 8 |
| Exams / Skills Evaluation | 40% | All |

***Resources***

**Required:**

None

**Recommended:**

Text books and readings are administered as appropriate and updated to reflect ongoing conceptual and technological developments.