## Introduction to System Administration

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| *SMS Code* | IN617001 | *Directed Learning hours* | 60 |
| *Level* | 6 | *Workplace or Practical Learning hours* | 0 |
| *Credits* | 15 | *Self-Directed Learning hours* | 90 |
| Prerequisites | IN511001, IN520001, IN515001 | *Total Learning Hours* | 150 |
| *This course approved in another Programme: No* | | | |

***Aims***

The aim of this course is to enable students to gain 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. Administer, monitor and troubleshoot a relevant operating system
2. Implement and configure network, application, and security services
3. Design and implement scripts to automate system services
4. Recognise and reflect on related contemporary technological developments

***Indicative Content***

* System installation and upgrading
* User account management
* File systems management
* Shells
* Scripting languages
* 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***

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| **Assessment Activity** | **Weighting** | **Learning Outcomes** |
| Assigned Exercises / Labs | 25% | All |
| Scripting Assignment | 25% | 2,3 |
| Research Portfolio | 10% | 4 |
| Exam | 40% | All |

***Resources***

**Required:**

None

**Recommended:**

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