## Systems Administration

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| *SMS Code* | IN719001 | *Directed Learning Hours* | 60 |
| *Level* | 7 | *Workplace or Practical Learning Hours* | nil |
| *Credits* | 15 | *Self-Directed Learning Hours* | 90 |
| *Prerequisites* | IN617001 | *Total Learning Hours* | 150 |

## Aims

To provide students with a realistic experience carrying out the configuration, deployment, and managment of a multihost, multitier IT infrastructure.

## Learning Outcomes

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

1. Plan and carry out professional level systems administration tasks using an appropriately structured workflow;
2. Install, configure, and operate a centralised configuration management system;
3. Install and configure a centralised system monitoring tool and use it to proactively maintain a set of servers;
4. Install and configure an enterprise-grade centralised backup/restore system and perform backup/restore tasks.
5. Resolve typical issues that arise in the context of operating a modern server infrastructure.

## Indicative Content

* Task management and ticketing
* Configuration management with tools like Chef or Puppet
* Centralised systems monitoring
* Managed backup/restore
* Documenting systems configuration

## Assessment

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| --- | --- | --- |
| **Assessment Activity** | **Weighting** | **Learning Outcomes** |
| Individual Performance Review | 20% | 1,2,5 |
| Team Operations Exercise | 60% | 1,2,3,4,5 |
| Exam | 20% | 1,2,3,4 |

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