

APPROVED

|                                  |  |                    |              |
|----------------------------------|--|--------------------|--------------|
| Programme Code                   | PGDCLOUD   | Programme Duration | 1            |
| Programme Level                  | 9  | EQF Level          | 7            |
|                                  |  | EHEA Level         | Second Cycle |
| Programme Credits                | 60   |                    |              |
| Semester Duration                | 1 Week(s)  |                    |              |
| Language of Instruction          | English  |                    |              |
| Field of Study                   | 0613 - Software and applications development and analysis                    |                    |              |
| Supplementary Field of Study     | Computer use   |                    |              |
| CAO Code; QQI Programme Code etc | Code   |                    |              |
| Programme Extra Information      | Work Placement will occur either during term time or upon course completion. |                    |              |

Programme Outcomes

On successful completion of this programme the learner will be able to :

| Description   |
|---|
| Conduct independent research and analysis in the field of Cloud Computing   |
| Demonstrate expert knowledge of application development, systems programming, parallel and distributed computing, and the tools, techniques and technologies of Cloud Computing utilised in both technical and business contexts. |
| Critically assess, evaluate and communicate business and technical strategies for Cloud Computing.  |
| Develop and implement effective business and technical solutions for Cloud Computing.   |
| Critically assess and evaluate security, privacy, and ethical issues associated with the storage, transfer, and processing of data on private and public cloud infrastructures.   |

Semester Schedules

## Stage 1 / Semester 1

| Core Subject     |  |
|------------------|--|
| Module Code      | Title  |
| H9CLAR           | <a href="#">Cloud Architectures</a>                  |
| H9CDOS           | <a href="#">Cloud DevOpsSec</a>                      |
| H9CPP            | <a href="#">Cloud Platform Programming</a>           |
| Group Elective 1 |  |
| Module Code      | Title  |
| H9INN1           | <a href="#">Innovation I</a>                         |
| Group Elective 2 |  |
| Module Code      | Title  |
| H9BCC            | <a href="#">Blockchain Concepts and Technologies</a> |

## Stage 1 / Semester 2

| Core Subject     |  |
|------------------|--|
| Module Code      | Title  |
| H9DGCE           | <a href="#">Data Governance, Compliance and Ethics</a> |
| H9FEC            | <a href="#">Fog and Edge Computing</a>                 |
| H9SCP            | <a href="#">Scalable Cloud Programming</a>             |
| Group Elective 1 |  |
| Module Code      | Title  |
| H9INN2           | <a href="#">Innovation II</a>                          |
| Group Elective 2 |  |
| Module Code      | Title  |
| H9CML            | <a href="#">Cloud Machine Learning</a>                 |
| H9QC             | <a href="#">Quantum Computing</a>                      |