

Course Outline (Higher Education)

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|----------------------------|--------------------------------|
| Institute / School: | Global Professional School |
| Course Title: | CLOUD AND ENTERPRISE COMPUTING |
| Course ID: | GPSIT1104 |
| Credit Points: | 15.00 |
| Prerequisite(s): | Nil |
| Co-requisite(s): | Nil |
| Exclusion(s): | NIL |
| ASCED: | 029999 |

Description of the Course:

The mainframes are large-scale computer system architectures and their services were established in early 1960s, whereas the cloud computing services were established in late 2000. This subject introduces the fundamental of these two services and the synergy between these two architectures. This subject will enable students to understand the architecture, technologies and scalable applications supported by these services. This course will incorporate additional learning hours to support the development of students' academic and study skills.

Grade Scheme: Graded (HD, D, C, P, MF, F, XF)

Work Experience:

No work experience: Student is not undertaking work experience in industry.

Does Recognition of Prior Learning apply to this course? No

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks.

Program Level:

| Level of course in Program | AQF Level of Program | | | | | |
|----------------------------|----------------------|---|---|---|---|----|
| | 5 | 6 | 7 | 8 | 9 | 10 |
| Introductory | ✓ | ■ | ■ | ■ | ■ | ■ |
| Intermediate | ■ | ■ | ■ | ■ | ■ | ■ |
| Advanced | ■ | ■ | ■ | ■ | ■ | ■ |

Learning Outcomes:

Knowledge:

- K1.** Identify the key elements in cloud and mainframe computing;
- K2.** Explain the importance of cloud and mainframes in contemporary business models;
- K3.** Recognise the need for security and privacy in cloud and mainframes;
- K4.** Infer various services provided by cloud and mainframes.

Skills:

- S1.** Demonstrate cloud architectures models for different user types;
- S2.** Describe mainframe workloads for business needs;
- S3.** Use Cloud environment and services for various business-related needs;
- S4.** Interpret security and privacy needs in shared environment.
- S5.** Critique contemporary IT industry practices/presentations related to cloud and enterprise computing, and relate them to professional standards and your own career aspirations.
- S6.** Develop the appropriate English language and academic skills to successfully study at an undergraduate level

Application of knowledge and skills:

- A1.** Apply knowledge of the cloud and mainframe service for a range of business models;
- A2.** Interpret cloud and mainframe environment for enterprise computing.

Course Content:

Topics may include:

- The changing nature of businesses, changing nature of ICT professionals and the relationship between Business, ICT and Higher Education
- Cloud computing fundamentals;
- Cloud architecture;
- Cloud service model;
- Cloud security fundamentals ;
- Introduction to the mainframe environment;

- Similarities in mainframes and cloud computing ;
- Mainframe workloads for business needs.
- ICT technical skills for Cloud and Mainframes
- Overview of the popular cloud computing platforms.

Graduate Attributes

The Federation University Federation graduate attributes (GA) are entrenched in the [Higher Education Graduate Attributes Policy](#) (LT1228). FedUni graduates develop these graduate attributes through their engagement in explicit learning and teaching and assessment tasks that are embedded in all FedUni programs. Graduate attribute attainment typically follows an incremental development process mapped through program progression. **One or more graduate attributes must be evident in the specified learning outcomes and assessment for each FedUni course, and all attributes must be directly assessed in each program**

| Graduate attribute and descriptor | | Development and acquisition of GAs in the course | |
|-----------------------------------|--|--|-----------------------|
| | | Learning Outcomes (KSA) | Assessment task (AT#) |
| GA 1 Thinkers | Our graduates are curious, reflective and critical. Able to analyse the world in a way that generates valued insights, they are change makers seeking and creating new solutions. | K1, K2, K3, K4, S1, S2, S4 | AT1-2 |
| GA 2 Innovators | Our graduates have ideas and are able to realise their dreams. They think and act creatively to achieve and inspire positive change. | S1, S3 | AT1-2 |
| GA 3 Citizens | Our graduates engage in socially and culturally appropriate ways to advance individual, community and global well-being. They are socially and environmentally aware, acting ethically, equitably and compassionately. | K2, S4 | AT1-2 |
| GA 4 Communicators | Our graduates create, exchange, impart and convey information, ideas, and concepts effectively. They are respectful, inclusive and empathetic towards their audience, and express thoughts, feelings and information in ways that help others to understand. | S2, S5 | AT1-2 |
| GA 5 Leaders | Our graduates display and promote positive behaviours, and aspire to make a difference. They act with integrity, are receptive to alternatives and foster sustainable and resilient practices. | Not applicable | Not applicable |

Learning Task and Assessment:

| Learning Outcomes Assessed | Assessment Tasks | Assessment Type | Weighting |
|----------------------------|---|--|-----------|
| S1-6, A1-2 | Develop skills in the analysis and practical application of content introduced. | Tutorial task(s)/Assignment(s) | 60%-80% |
| K1-4, S1-6 | Demonstrate understanding of core course concepts via presentations(s), examination(s) and/or test(s) | Presentations(s)/Examination(s)/ Test(s) | 20%-40% |

Alignment to the Minimum Co-Operative Standards (MiCS)

The Minimum Co-Operative Standards (MiCS) are an integral part of the Co-Operative University Model. Seven criteria inform the MiCS alignment at a program level. Although courses must undertake MiCS mapping, there is NO expectation that courses will meet all seven criteria. The criteria are as follows:

1. Co-design with industry and students
2. Co-develop with industry and students
3. Co-deliver with industry
4. FedTASK alignment
5. Workplace learning and career preparation
6. Authentic assessment
7. Industry-link/Industry facing experience

MiCS program level reporting highlights how each program embraces the principals and practices associated with the Co-Operative Model. Evidence of program alignment with the MiCS, can be captured in the Program Modification Form.

MICS Mapping has been undertaken for this course No

Date:

Adopted Reference Style:

APA

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)