DIT21 – Diploma of Information Technology

1. About the Diploma of Information Technology

The Diploma of Information Technology (DIT) is a nested AQF 5 qualification designed to provide graduates with a fundamental theoretical and technical base of information technology knowledge and skills, closely aligned to market demands and expectations for the current IT market.

The Diploma of Information Technology prepares graduates for entry-level employment in relevant IT sectors or to further study at a Bachelor level.

Graduate employment opportunities

The Diploma of Information Technology provides graduates with the capability to seek entry level employment in IT and software industries.

Examples include:

- Help desk support
- Website developer
- Entry-level software programmer

Course Overview

Course Title	**Diploma of Information Technology (DIT21)**		
Study Options – Domestic Australian students	Face to Face delivery Online delivery Full-time and part-time options available.	**Study Options – International students**	**N/A**
Start Dates	May, September For specific dates visit the website.	**Course Length**	Full-time: 1 year Part-time: 2 years
Payment Options - Domestic Australian students	**Upfront payment** This means tuition fees will be invoiced each semester and payment is required on or before the due date. **FEE-HELP** FEE-HELP is Australian Government's loan scheme for higher education degree courses. It can assist you in paying for all, or part of, your course fees. Repayments commence via the tax system once your income rises above a minimum threshold. Just like with any other debt, a FEE-HELP debt is a real debt that impacts your credit rating.	**Payment Options – International students**	**N/A**
Course study requirements	Each subject involves 10 hours of study per week, comprising 3 hours of facilitated study and 7 hours self-directed study.	**Assessment**	Project/Application/Research Proposal, Process/Research Documentation, Application Outcome, Reflective Journal/Blog, Report/Essay, Presentation/Pitch, Examinations/Tests/Quizzes, Research, Collaboration
Locations	Sydney Melbourne Brisbane Adelaide Online	**Delivered by**	Torrens University Australia
Provider	Torrens University Australia Ltd is registered as a self-accrediting Australian university by the Tertiary Education Quality and Standards Agency (TEQSA).	**CRICOS Course Code**	N/A

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Information provided in this document is current at the time of publishing (Jan 2022).
Course Information Set: Diploma of Information Technology

Page 2

Provider obligations	Torrens University is responsible for all aspects of the student experience, including the quality of course delivery, in compliance with the *Higher Education Standards 2015*	Accrediting body	Torrens University Australia Ltd
Course Fees	For details, refer to the website.	Any other fees	For details, refer to the website.

2. Essential requirements for admission

The general admission criteria that apply to Torrens University Australia courses can be located by visiting the Torrens University Australia website - https://www.torrens.edu.au/general-admission-information-for-torrens-university-australia-ltd.

3. Admission Criteria

Title of course of study	Diploma of Information Technology
Applicants with higher education study	Year 12 (Australian secondary school certificate) or equivalent.
Applicants with vocational education and training (VET) study	A completed vocational education qualification at AQF level 4 (Certificate IV) or above, or equivalent, from a registered training organisation (RTO)
Applicants with work and life experience	Demonstrated ability to undertake study at the required level: • broadly relevant work experience in Information Technology (documented e.g. CV), demonstrating a reasonable prospect of success; OR • formal, informal or non-formal study, completed or partially completed, demonstrating a reasonable prospect of success; OR • written submission to demonstrate reasonable prospect of success.
English Language Proficiency (applicable to international students, and in addition to academic or special entry requirements noted above)	Equivalent IELTS 5.5 (Academic) with no skills band less than 5.0.
Applicants with recent secondary education (within the past two years) with ATAR or equivalent* (for applicants who will be selected wholly or partly on the basis of ATAR)	Year 12 or equivalent

Other admission options
(For applicants who will be selected on a basis other than ATAR)

Torrens University Australia Ltd, ABN 99 154 937 005, RTO 41343, CRICOS 03389E.
Information provided in this document is current at the time of publishing (Jan 2022).
Course Information Set: Diploma of Information Technology

Page 3

Special Entry	Applicants in any category whose study, work or life experiences have been impacted by disability, illness or family disruption will be given special consideration for admission. Each application will be considered on its merit, based on the evidence supplied by the applicant attesting to the circumstances of the applicant. Applicants for special entry may need to complete written or numerical tasks to assist with assessing eligibility for admission.

4. **How to apply**

   Via direct application to the institution

   o https://apply.torrens.edu.au/

5. **Advanced standing/academic credit/recognition of prior learning (RPL)**

You may be entitled to credit for prior learning, whether formal or informal. Formal learning can include previous study in higher education, vocational education, or adult and community education. Informal learning can include on the job learning or various kinds of work and life experience. Credit can reduce the amount of study needed to complete a degree.

Applicants admitted based on prior higher education study may be eligible for Advanced Standing in the form of credit and/or recognition of prior learning (RPL) under the Torrens University Australia Credit Policy - (https://www.torrens.edu.au/policies-and-forms).

- Students with completed subjects may be eligible for specified credit and/or elective exemptions
- Students who have completed a qualification at AQF level 5 (diploma) or above may be eligible for block credit (where a block credit agreement exists)
- Students with a mix of formal study and informal and/or non-formal learning may be eligible for recognition of prior learning in addition to any credit approved.

Credit will not be applied automatically. Applicants must apply for credit and/or RPL as early as possible prior to each study period, with applications not accepted after week 2.

For further information about credit and recognition of prior learning please see http://www.torrens.edu.au/apply-online/course-credits.

6. **Where to get further information**
   - Torrens University Australia (TUA) Website
     o https://www.torrens.edu.au/
   - Universities Admissions Centre (UAC) Website
     o http://www.uac.edu.au/
   - Quality Indicators for Learning and Teaching (QILT) Website
     o https://www.qilt.edu.au/

7. Additional Information

Course Structure

The course structure comprises of 8 Information Technology (IT) core subjects over levels 100 and 200, as follows:

- Level 100: 7 mandatory IT core subjects
- Level 200: 1 mandatory IT core subjects
- No elective subject is offered.

Course Rules

To be awarded the Diploma of Information Technology, students must complete 80 credit points over 8 subjects as outlined in the course structure above. Each subject has a value of 10 credit points. There is no elective.

Subjects

SUBJECT DETAILS
SUBJECT TITLE, DESCRIPTOR
LEVEL 100
CAO107 - Computer Architecture and Operating Systems   This subject examines the design, organisation, and operation of modern computer systems from both a hardware and software perspective.   The first half of this subject explores the five classic components of a computer system: input, output, memory, data path and control, with the last two making up the processor. We explore the history of computer systems, highlighting the recent change in trend from increasing clock speeds to increasing processor/core counts. We describe how the performance of a computer system can be evaluated, how it has been the driving factor behind progress and why this recent change in trend was necessary. Each of the five classic components are examined in both an abstract sense and by looking at specific real-world examples. We put particular emphasis on the structure, design and operation of modern CPUs, how CPUs differ in design and operation from GPUs, and how memory hierarchies are used to improve performance.   The second half of this subject examines how operating systems bring all of these computer system components together in a cohesive way, to allow user programs to interact with these components without needing to know about the low-level details. Students will learn about the structure of a modern operating system, with particular emphasis on processes & threads, memory management, file systems and I/O.
ITP122- Introduction to Programming   In this subject, students will be introduced to the fundamental concepts and methodologies utilised in programming. Students will develop problem solving skills in order to identify appropriate tools and methodologies to address software requirements. Decision logics and iterative programming will be explored and applied through software coding, debugging and testing on various platforms. Lastly, students will produce and present verified and validated software solutions and documentation to meet project goals.
MIS102- Data and Networking   The management of data underpins most aspects of information system at both theoretical and practical levels. Data is often stored in a distributed environment and management requires students to build an understanding of data networking, data communication, MS windows and network administration. This subject sets the foundations for many subsequent subjects in this course.

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Information provided in this document is current at the time of publishing (Jan 2022).
Course Information Set: Diploma of Information Technology

Page 5

SUBJECT DETAILS
SUBJECT TITLE, DESCRIPTOR

MIS100 - Foundations of Information Systems

This subject is designed to prepare students for a career in a business information systems field as a Business Analyst (BA). They will gain insight into organisation and functions of a modern computer and communication and software components that support it. Through awareness of potential and limitations of systems and technologies students will work with testing and verifying data, develop confidence and competence in ability to understand, analyse, and apply information technology. The principles and importance of the agile methodology will be applied to the BA space.

ISE102 - Introduction to Software Engineering

This subject provides an introduction to the ideas and skills foundational to software engineering and will cover the fundamental concepts of programming with a particular focus on learning to use the C++ programming language. Students will gain an understanding of the basic ideas underlying programming and experience developing applications using an integrated development environment (IDE).

ICC104- Introduction to Cloud Computing

In this subject, students learn the fundamental elements of Cloud Computing. They identify the building blocks of Cloud Computing including essential characteristics, different service models and how these models differ from each other. In addition, students also develop an understanding of resource pooling and virtualisation in Cloud. They learn about various deployment models in cloud computing and how these deployment models differ from traditional IT deployment models.

DIG103A- Interaction Design

This subject explores the groundwork theory and practice of user experience (UX), user interface (UI) and front-end web development and design. The subject initially covers fundamental concepts in UX and UI design. It then transitions to the fundamentals of front-end development and design by teaching students how to code webpages using HTML and CSS. Students will code their own visual designs using a knowledge base of the fundamentals within these two markup languages. In addition to this, students will learn the basic principles of responsive design, and how web pages need to be designed for a variety of screen-based media including phones, tablets, laptops and televisions. This subject gives students a foundation of web based digital skills that are required in a variety of design related career opportunities.

LEVEL 200

IPP221- IT Professional practices

Ethical practice, teamwork and professional communication skills are the key concepts that students will explore and apply in IT Professional Practice. Industry focused learning activities and assessment tasks allow students to examine authentic case studies to identify compliance issues that compromise the safeguarding of IT governance. Working with peers, students will develop their interpersonal and problem-solving skills as they collaboratively design and develop an IT security solution. The learning journey concludes with students presenting their final solution, demonstrating the ability to professionally articulate their ideas to an audience.

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Course Information Set: Diploma of Information Technology

Page 6

Locations

The Diploma of Information Technology can be studied fully online or at the below Torrens University Campuses:

- Sydney: 46-52 Mountain Street, Ultimo NSW Australia 2007
- Sydney: 1–37 Foveaux Street Surry Hills, NSW 2010
- Melbourne: 196 Flinders St, Melbourne, VIC 3000
- Adelaide: 82-98 Wakefield Street, Adelaide, SA, 5000
- Brisbane: 90 Bowen Terrace, Fortitude Valley, QLD 4006
- Online

Campus Facilities and Services

All campuses are designed to provide students with professional spaces in which to learn and work. They have been planned with student study needs in mind with well-equipped accessible learning spaces as well as student breakout areas for group work and spending time with friends.

Facilities and Services include:

- The Customer Service Hub – our friendly and experienced staff can give help and advice about courses, your enrolment and campus life, including all services and activities on campus.
- Counsellors are available for students to consult with on a range of personal issues
- Student wireless access throughout the Campus
- Student break-out and relaxed study spaces for group work
- Student lounge areas – most with microwaves, kitchenette facilities and vending machines
- The Learning Hub, home to the Learning Support Team, encompasses Learning Skills Advisors, Learning Technology Advisors, and Library & Learning Skills Officers. It provides an integrated, holistic support program for students throughout the study lifecycle within a library/collaborative study environment.
  The service includes:
  - Support and workshops with highly qualified staff in the areas of Academic skills, Library skills, and Technology skills, both on campus and online.
  - Physical and digital resources relevant to studies, such as books, journals, multimedia, databases
  - Self-check kiosks for library loans and print and copy facilities

A positive student experience

Torrens University Australia values the importance of a positive student experience, and therefore has robust processes to resolve student complaints. The Student Complaints Policy, and associated procedures, can be accessed from the website (https://www.torrens.edu.au/policies-and-forms).

Paying for your qualification

We offer two payment options for this course:

- **Upfront payment**
  If you want to complete your qualification debt-free you can choose to pay as you go. This means tuition fees will be invoiced each semester and payment is required on or before the due date using EFTPOS, credit card or direct transfer.
- **FEE-HELP**
  FEE-HELP is Australian Government's loan scheme for higher education degree courses. It can assist you in paying for all, or part of, your course fees. Repayments commence via the tax system once your income rises above a minimum threshold ($45, 881 in 2019-20). Just like with any other debt,
  a FEE-HELP debt is a real debt that impacts your credit rating.

Further information about FEE-HELP, including eligibility, is available at:

- o FEE-HELP website:
  http://studyassist.gov.au/sites/studyassist/helppayingmyfees/fee-help/pages/fee-help-
- o FEE-HELP booklets:
  http://studyassist.gov.au/sites/studyassist/helpfulresources/pages/publications

Austudy and Abstudy

Students enrolled in this course may be eligible for government assistance, such as Austudy or Abstudy.