

Handbook 2020

Coursecode

D1059

DOCTOR OF INFORMATION TECHNOLOGY

Murdoch University

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Cancellation of Courses, Majors, Minors and Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Alternative Formats

Handbook home page:

<http://handbook.murdoch.edu.au>

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| Group | Course | Offerings |
|----------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Graduate Research Degrees | | |
| Information Technology | Doctor of Information Technology (DIT) | <ul style="list-style-type: none"> • Murdoch campus (internal) • Some units only: Murdoch campus (external) |

INFORMATION TECHNOLOGY

DOCTOR OF INFORMATION TECHNOLOGY (DIT)

Duration: 3 years full-time or part-time equivalent

Availability:

- Murdoch campus (internal) - Some units only: Murdoch campus (external)

Doctor of Information Technology (DIT)

Advanced Standing:

Up to 24 points (1 year) of advanced standing is available to students with a Masters Degree in IT.

The Doctor of Information Technology (DIT) is an intensive course of study leading to a professional doctorate in Information Technology. The first two semesters consist of a selection from the School's masters-level units covering approaches to information technology and a wide range of topics of current concern in the industry. The final four research semesters culminate with the writing of a research dissertation which embodies a significant contribution to professional practice in Information Technology.

Course Codes: D1059

Restriction: All graduate courses are subject to restriction.

Admission Requirements (Onshore):

To be eligible for admission as a candidate for a Doctor of Information Technology, an applicant must have:
a Bachelor Degree with at least a 2A Honours normally in the same discipline (AQF level 8); or
a Masters Degree normally in the same discipline (AQF level 9) and satisfy the Manager with evidence of substantive and significant scholarly or professional attainments; or
a Bachelor Degree normally in the same discipline (AQF level 7) and satisfy the Manager with evidence of substantive and significant scholarly or professional attainments including satisfactory research preparation equivalent of AQF level 8 or 9.

Mathematics and Statistics

Course Structure - 72 credit points

In Semesters 3, 4, 5 and 6, full-time students should enrol in the thesis unit for 12 points each semester and part-time students for 6 points each semester, until the submission of the thesis.

Semesters 1 and 2 - 24 credit points

Core Unit - 3 credit points

ICT615 Information Technology Research Methods - 3 points
MURDOCH: S1-internal

Specified Electives - 21 credit points

Select from the following:

ICT501 Business Analysis and Systems Development Approaches - 3 points
MURDOCH: S2-internal, S2-external

ICT612 Human Factors in Information Technology - 3 points
MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points
MURDOCH: S1-internal, S2-internal

ICT616 Data Resources Management - 3 points
MURDOCH: S1-internal, S2-internal

ICT631 Advanced IT Study Project - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT508 Information Technology Project Management - 3 points

MURDOCH: S1-internal

ICT619 Artificial Intelligence - 3 points
MURDOCH: S1-internal

ICT622 Information Technology Strategy - 3 points
MURDOCH: S2-internal

ICT700 Computer Science Research Topic - 3 points
MURDOCH: S1-internal, S2-internal

ICT704 Information Systems Research Topic - 3 points
MURDOCH: S1-internal, S2-internal

Semester 3 - 12 credit points

Core Units - 12 credit points

ICT702 Doctor of Information Technology Thesis - 12 points
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

Semester 4 - 12 credit points

Core Units - 12 credit points

ICT702 Doctor of Information Technology Thesis - 12 points
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

Semester 5 - 12 credit points

Core Units - 12 credit points

ICT702 Doctor of Information Technology Thesis - 12 points
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

Semester 6 - 12 credit points

Core Units - 12 credit points

ICT702 Doctor of Information Technology Thesis - 12 points
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

PREREQUISITES

Advanced IT Study Project (ICT631)

Completion of 24 points in a graduate level IT course and a minimum GPA of 2.8 out of 4, or permission of the Academic Chair.

Artificial Intelligence (ICT619)

Enrolment in a graduate-level IT course.

Business Analysis and Systems Development Approaches (ICT501)

Enrolment in a graduate IT course or in G1074 Graduate Diploma in Games and App Production or permission of the Academic Chair.

Computer Science Research Topic (ICT700)

Enrolment in the Doctor of Information Technology.

Data Resources Management (ICT616)

Enrolment in a graduate-level IT course.

Doctor of Information Technology Thesis (ICT702)

Enrolment in the Doctor of Information Technology; ICT650 Information Technology Research Methods or ICT615 Information Technology Research Methods.

Human Factors in Information Technology (ICT612)

Enrolment in a graduate-level IT course.

Information Systems Research Topic (ICT704)

Enrolment in the Doctor of Information Technology.

Information Technology Project Management (ICT508)

Enrolment in a graduate IT course or permission of the Academic Chair.

Information Technology Research Methods (ICT615)

Enrolment in a graduate IT course or permission of the Academic Chair.

Information Technology Strategy (ICT622)

Enrolment in a graduate IT course.

Local Area Network Design and Implementation (ICT546)

Enrolment in a graduate-level IT course.